INTERNATIONAL STANDARD

ISO/IEC 24727-2

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AMENDMENT 1
2014-04-01

Identification cards — Integrated circuit card programming interfaces —

Part 2: Generic card interface

AMENDMENT 1

Cartes d'identification — Interfaces programmables de cartes à puce —

Partie 2: Interface de carte générique

AMENDEMENT 1

Reference number
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Foreword

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

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Amendment 1 to ISO/IEC 24727-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

Identification cards — Integrated circuit card programming interfaces —

Part 2:
Generic card interface

AMENDMENT 1

Page 2, Clause 3

Insert the following new terms and definitions and renumber the current 3.3 as 3.5:

3.3
legacy card
integrated circuit card which is not personalized for the ISO/IEC 24727 standard

3.4
procedural element
software that can be accessed to provide manipulation of specific interface commands within a processing layer

cf. **translation code**

Page 4, 5.1.3

Add the following row at the end of Table 2:

ENVELOPE	'C3'	A	None

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Add the following new subclause at the end of Clause 6:

6.5 Discovery Mechanism for Legacy Cards

Cards in the field for which post-issuance personalization may turn too expensive require a practical means to fit easily in a ISO/IEC 24727 framework. To leverage access for these legacy-cards to ISO/IEC 24727 enabled e-services (client-application), card issuers may deliver to Service Providers a card discovery registry respective to each type of card so that to have it recognized at bootstrap. In relation to this card discovery registry, either an ACD or ISO/IEC 7816-15 based or XML-based CardInfo shall be made available to the service provider for a whole description of card capabilities involved in the transaction with the ISO/IEC 24727 enabled client-application.

ASN.1 definition for legacy-card discovery

6.5.1 The CardDiscovery Module

```
ISO24727-2-CardDiscovery {iso(1) standard(0) iso24727(24727) part2(2) annexY(Y) }
-- Version 1.2, 15-Dec-2010
-- annex Y to be defined
--
DEFINITIONS AUTOMATIC TAGS EXTENSIBILITY IMPLIED ::=
BEGIN
```

```
--EXPORTS (all)
IMPORTS URL
FROM ISO24727-COMMON { iso(1) standard(0) iso24727(24727) };
-- Major and Minor Revision values for this ASN.1 Module
revMajISO24727-2-CardDiscovery INTEGER ::= 1
revMinISO24727-2-CardDiscovery INTEGER ::= 2

-- 1. Data Types

cardType ::= CardType
CardType ::= SEQUENCE {
   atr    ATR OPTIONAL,
   ats    ATS OPTIONAL,
   efATRorINFO   EFATRorINFO OPTIONAL,
      efDIR      EFDIR OPTIONAL,
   apduCRP   SEQUENCE OF APDUCRP OPTIONAL,
   CardRegistryLocation URL,
}

-- ref. ISO/IEC 7816-3
ATR ::= SEQUENCE {
   tsByte TS,
   atrt0Byte T0ATR,
   atrInterfaceBytes      ATRInterfaceBytes OPTIONAL,
   historicalBytes     HistoricalBytes OPTIONAL,
   tckByte          TCK
}
-- ref. ISO/IEC 14443-4
ATS ::=SEQUENCE{
   tlByte TL,
   atst0Byte T0ATS OPTIONAL, -- only present if TL>1
   atsInterfaceBytes      ATSInterfaceBytes OPTIONAL,
   historicalBytes     HistoricalBytes OPTIONAL,
   crc1Byte         CRC1,
      crc2Byte         CRC2
}

TS ::= BitMask
T0ATR ::= BitMask
ATRInterfaceBytes ::= BitMask
TCK ::= BitMask
TL ::= BitMask
T0ATS ::= BitMask

ATSInterfaceBytes ::=SEQUENCE{
   ta1 TA1 OPTIONAL,
   tb1 TB1 OPTIONAL,
   tc1 TC1 OPTIONAL
}

TA1 ::= BitMask
TB1 ::= BitMask
TC1 ::= BitMask

HistoricalBytes ::= BitMask
CRC1 ::= BitMask
CRC2 ::= BitMask

BitMask ::=SEQUENCE{
   outputValue OCTET STRING,
   maskToApply OCTET STRING,
   operationToApply ENUMERATED {xor(0),and(1), or(2), not(3)}
   }


EFATRorINFO ::= CHOICE {
   apduCRP   SEQUENCE OF APDUCRP,
     bitMask BitMask
}

EFDIR ::= CHOICE {
```