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PROFILE

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**Information technology — International
Standardized Profiles ADFnn — Document
Filing and Retrieval (DFR) —**

Part 5:

**ADF13 — Common Filing and Retrieval —
Document Store Manipulation Profile**

*Technologies de l'information — Profils normalisés internationaux ADFnn —
Classement et recherche documentaire (DFR) —*

*Partie 5: ADF13 — Classement et recherche courants — Profil de
manipulation de stockage documentaire*



Reference number
ISO/IEC ISP 12069-5:1999(E)

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Foreword

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

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. In addition to developing International Standards, ISO/IEC JTC 1 has created a Special Group on Functional Standardization for the elaboration of International Standardized Profiles.

An International Standardized Profile is an internationally agreed, harmonized document which identifies a standard or group of standards, together with options and parameters, necessary to accomplish a function or a set of functions.

Draft International Standardized Profiles are circulated to national bodies for voting. Publication as an International Standardized Profile requires approval by at least 75 % of the national bodies casting a vote.

International Standardized Profile ISO/IEC ISP 12069-5 was prepared with the collaboration of

- Asia-Oceania Workshop (AOW);
- European Workshop for Open Systems (EWOS);
- Open Systems Environment Implementors' Workshop (OIW).

ISO/IEC ISP 12069 consists of the following parts, under the general title *Information technology — International Standardized Profiles ADFnn — Document Filing and Retrieval (DFR)*:

- *Part 1: Introduction to the DFR ISP*
- *Part 2: Specification of ROSE, RTSE, ACSE, Presentation and Session protocols for use by DFR*
- *Part 3: ADF11 — Common Document Filing and Retrieval — Read Only Profile*
- *Part 4: ADF12 — Common Filing and Retrieval — Archiving Profile*
- *Part 5: ADF13 — Common Filing and Retrieval — Document Store Manipulation Profile*
- *Part 6: ADF21 — Remote Store Management — Simple Management Profile*
- *Part 7: ADF22 — Remote Store Management — Full Management Profile*

Annex A forms an integral part of this part of ISO/IEC ISP 12069.

Information technology — International Standardized Profiles

ADFnn — Document Filing and Retrieval (DFR) —

Part 5:

ADF13 — Common Filing and Retrieval — Document Store Manipulation Profile

1 Scope

1.1 General

This part of ISO/IEC ISP 12069 contains the overall specifications for the support of document filing and retrieval functionality between a DFR user and a DFR server using DFR access protocol. This specification forms the document store manipulation capabilities of Common Filing and Retrieval application functions.

For this part of ISO/IEC ISP 12069, specifications defined in ISO/IEC ISP 12069-1 and ISO/IEC ISP 12069-2 apply. If any specification of another part of ISO/IEC ISP 12069 is used, it is explicitly indicated.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 12069 is the fifth part of the DFR ISPs. The structure of the DFR ISPs is described in ISO/IEC ISP 12069-1.

ADF13 Document Store Manipulation profile is part of the ADF1n series of profiles, called Common Filing and Retrieval profiles. It includes the functionality of ADF11 Read Only profile (specified in ISO/IEC ISP 12069-3) and ADF12 Archiving profile (specified in ISO/IEC ISP 12069-4).

It may be combined with any T-Profile (see ISO/IEC TR 10000) specifying the OSI connection-mode Transport service.

1.3 Scenario

ADF13 is intended to accomplish the document store manipulation when common filing and retrieval capabilities of a DFR document are required.

The model used is one of a DFR user and a DFR server intercommunicating using the ADF13 profile of the DFR protocol. This situation is illustrated in Figure 1.

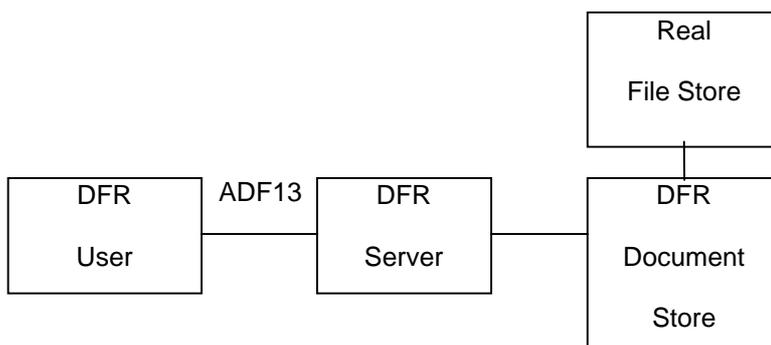


Figure 1 — Scenario for the use of ADF13

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 12069. At the time of publication, the editions indicated were valid. All documents are subject to revision, and parties to agreements based on this part of ISO/IEC ISP 12069 are warned against automatically applying any more recent editions of the documents listed below, since the nature of references made by ISPs to such documents is that they may be specific to a particular edition. Members of IEC and ISO maintain registers of currently valid International Standards and ISPs, and ITU-T maintains published editions of its current Recommendations.

ISO/IEC 8326:1996, *Information technology — Open Systems Interconnection — Session service definition.*

ISO/IEC 8327-1:1996, *Information technology — Open Systems Interconnection — Connection-oriented Session protocol: Protocol specification.*

ISO 8649:1988, *Information processing systems — Open Systems Interconnection — Service definition for the Association Control Service Element.*

ISO 8650:1988, *Information processing systems — Open Systems Interconnection — Protocol specification for the Association Control Service Element.*

ISO/IEC 8822:1994, *Information technology — Open Systems Interconnection — Presentation service definition.*

ISO/IEC 8823-1:1994, *Information technology — Open Systems Interconnection — Connection-oriented presentation protocol: Protocol specification.*

ISO/IEC 8824:1990, *Information technology — Open Systems Interconnection — Specification of Abstract Syntax Notation One (ASN.1).*

ISO/IEC 8825:1990, *Information technology — Open Systems Interconnection — Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*

ISO/IEC 9072-1:1989, *Information processing systems — Text communication — Remote Operations — Part 1: Model, notation and service definition.*

ISO/IEC 9072-2:1989, *Information processing systems — Text communication — Remote Operations — Part 2: Protocol specification.*

ISO/IEC 9646-7:1995, *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 7: Implementation Conformance Statements.*

ISO/IEC TR 10000-1:1995, *Information technology — Framework and taxonomy of International Standardized Profiles — Part 1: General principles and documentation framework.*

ISO/IEC TR 10000-2:1995, *Information technology — Framework and taxonomy of International Standardized Profiles — Part 2: Principles and Taxonomy for OSI profiles.*

ISO/IEC 10031-2:1991, *Information technology — Text and office systems — Distributed-office-applications model — Part 2: Distinguished-object-reference and associated procedures.*

ISO/IEC 10166-1:1991, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 1: Abstract service definition and procedures.*

ISO/IEC 10166-1:1991/Amd.1:1995, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 1: Abstract service definition and procedures — Amendment 1: Minor Enhancements.*

ISO/IEC 10166-1:1991/Amd.2:1996, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 1: Abstract service definition and procedures — Amendment 2: Combined usage of DFR and DTAM.*

ISO/IEC 10166-1:1991/Cor.1:1994, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 1: Abstract service definition and procedures — Technical Corrigendum 1.*

ISO/IEC 10166-1:1991/Cor.2:1994, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 1: Abstract service definition and procedures — Technical Corrigendum 2.*

ISO/IEC 10166-1:1991/Cor.3:1994, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 1: Abstract service definition and procedures — Technical Corrigendum 3.*

ISO/IEC 10166-2:1991, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 2: Protocol specification.*

ISO/IEC 10166-2:1991/Amd.1:1995, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 2: Protocol specification — Amendment 1: Minor enhancements for additional error.*

ISO/IEC 10166-2:1991/Amd.2:1996, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 2: Protocol specification — Amendment 2: Combined usage of DFR and DTAM.*

ISO/IEC 10166-2:1991/Cor.1:1994, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 2: Protocol specification — Technical Corrigendum 1.*

ISO/IEC 10166-2:1991/Cor.2:1995, *Information technology — Text and office systems — Document Filing and Retrieval (DFR) — Part 2: Protocol specification — Technical Corrigendum 2.*

ISO/IEC ISP 11188-1:1995, *Information technology — International Standardized Profile — Common upper layer requirements — Part 1: Basic connection oriented requirements.*

ISO/IEC ISP 12069-1:1996, *Information technology — International Standardized Profiles ADFnn — Document Filing and Retrieval (DFR) — Part 1: Introduction to the DFR ISP.*

ISO/IEC ISP 12069-2:1996, *Information technology — International Standardized Profiles ADFnn — Document Filing and Retrieval (DFR) — Part 2: Specification of ROSE, RTSE, ACSE, Presentation and Session protocols for use by DFR.*

ISO/IEC ISP 12069-3:1996, *Information technology — International Standardized Profiles ADFnn — Document Filing and Retrieval (DFR) — Part 3: ADF11 — Common Document Filing and Retrieval — Read Only Profile.*

ISO/IEC ISP 12069-4:1998, *Information technology — International Standardized Profiles ADFnn — Document Filing and Retrieval (DFR) — Part 4: ADF12 — Common Document Filing and Retrieval — Archiving Profile.*

ISO/IEC ISP 12069-6:1998, *Information technology — International Standardized Profiles ADFnn — Document Filing and Retrieval (DFR) — Part 6: ADF21 — Remote Store Management — Simple Management Profile.*

3 Definitions

For the purposes of this part of ISO/IEC ISP 12069, the definitions given in ISO/IEC ISP 12069-1 and ISO/IEC ISP 12069-2 apply.

4 Abbreviations

For the purposes of this part of ISO/IEC ISP 12069, the abbreviations given in ISO/IEC ISP 12069-1 and ISO/IEC ISP 12069-2 apply.

5 Conformance

This part of ISO/IEC ISP 12069 states requirements upon implementation to achieve interworking. A claim of conformance to this ADF13 is a claim that all requirements in the relevant base standards and recommendations are satisfied, that all the requirements in ISO/IEC ISP 12069-1 and ISO/IEC ISP 12069-2 are satisfied, and that all requirements in clause 6 and annex A of this part of ISO/IEC ISP 12069 are satisfied.

6 Constraints supported by ADF13

This clause describes the characteristics which are supported by this part of ISO/IEC ISP 12069.

The specifications of annex A are required for applications conforming to ADF13.

6.1 Support Classification

For this part of ISO/IEC ISP 12069, the constraints provided in subclause 3.2 of ISO/IEC ISP 12069-1 apply.

6.2 Support classification of service

The support classification for each operation is detailed in Table 1.

Table 1 — Support classification for DFR Operations

Operation	Support Classification
DfrBind	m
DfrUnbind	m
Create	m
Delete	m
Copy	m
Move	m
Read	m
Modify	m
List	m
Search	m
Reserve	m
Abandon	o

Support classification: m: mandatory; o: optional; i: out of scope

Annex A (normative)

Profile requirements list for this part of ISO/IEC ISP 12069

In the event of a discrepancy becoming apparent in the body of this part of ISO/IEC ISP 12069 and the tables in this annex, this annex is to take precedence.

In each table, "static client" means static capability required for an ADF13 user implementation, "static server" means static capability required for an ADF13 server implementation, and "dynamic" means the dynamic behaviour between ADF13 user and server implementations.

Table A.1 defines specific conditions (in addition to those specified in Table A.1 of ISO/IEC ISP 12069-3) that are used to determine dynamic conditional support classification (see 3.2.2. of ISO/IEC ISP 12069-1).

Table A.1 — Specific Conditions

Symbol	Condition	Support classification	
		TRUE	FALSE
PR	Reservation is requested by the client	m2	x
PG	Function set Full Set is implemented	m2	x
PE	Object class Reference is implemented	m2	x
PL	Object class Search-Result-List is implemented	m2	x
P7	DfrObjectClass is not a DFR-Search-Result-List	m2	x
P8	DfrObjectClass is a DFR-Document	m2	x
P9	DfrObjectClass is a DFR-Document or a DFR-Reference	m2	x
P10	SearchMode is in updatemode	m2	x
P11	SearchMode is not in non-stored-search	m2	x
P12	SearchMode is in new-search-stored or non-stored-search	m2	x

NOTE This table defines symbols to be used for the explanatory remarks. For each symbol (PR, PL, etc.) indicated in this table, each implementation may individually select the value "TRUE" or "FALSE". If "TRUE" is selected the value of dynamic support classification should be replaced by the value specified in "TRUE" column. Otherwise, the value of dynamic support classification should be replaced by the value specified in "FALSE" column.

A.1 DfrBind

This clause specifies restrictions on the DfrBind operation.

A.1.1 DfrBindArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the DfrBind operation.

The specifications provided in A.1.1 of ISO/IEC ISP 12069-3 apply with the following modifications:

- The entry for the "dfr-profile-selection" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
dfr-profile-selection	OBJECT IDENTIFIER	-	m	m	m1	ISO/IEC ISP 12069-5

A.1.2 DfrBindResult Parameters

This subclause specifies restrictions on the result parameters of the DfrBind operation.

The specifications provided in A.1.2 of ISO/IEC ISP 12069-3 apply.

A.1.3 DfrBind Error

This subclause specifies restrictions on the result error of the DfrBind operation.

The specifications provided in A.1.3 of ISO/IEC ISP 12069-3 apply.

A.2 DfrUnbind

This clause specifies restrictions on the DfrUnbind operation.

The specifications provided in A.2 of ISO/IEC ISP 12069-3 apply.

A.3 Create

This clause specifies restrictions on the Create operation.

A.3.1 CreateArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Create operation.

The specifications provided in A.3.1 of ISO/IEC ISP 12069-4 apply with the following modifications:

- The entries for the "modifications", "attributes", "content" and "reservation" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
modifications	SEQUENCE OF EntryModification	-	o	o	c1	see A.3.1.5 see Note
attributes	SET OF Attribute	-	o	m	c1	[c.f. ISO/IEC 9594] see Note
content	DfrObjectContent	-	o	m	c1	see A.3.1.4; see Note
reservation	Reservation	-	o	m	c1(PR)	see A.9.1.5 in ISO/IEC 12069-6

NOTE The arguments modifications, attributes and content must be specified due to the subclause 8.2.1 of ISO/IEC 10166-1.

A.3.1.1 DfrObjectClass

This subclause specifies restrictions on the "DfrObjectClass" parameter.

The specifications provided in A.3.1.1 of ISO/IEC ISP 12069-4 apply with the following modifications:

— The entry for the "dfr-search-result-list" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
dfr-search-result-list	-	-	o	o	c1(PL)	4

A.3.1.2 DfrEntryName

This subclause specifies restrictions on the "DfrEntryName" parameter.

The specifications provided in A.7.1.2 of ISO/IEC ISP 12069-3 apply.

A.3.1.3 EntryInformationSelection

This subclause specifies restrictions on the "EntryInformationSelection" parameter.

The specifications provided in A.7.1.5 of ISO/IEC ISP 12069-3 apply.

A.3.1.4 DfrObjectContent

This subclause specifies restrictions on the "DfrObjectContent" parameter.

The specifications provided in A.3.1.4 of ISO/IEC ISP 12069-4 apply.

A.3.1.5 EntryModification

This subclause specifies restrictions on the "EntryModification" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
EntryModification [CHOICE]						
put-attribute	Attribute	-	m	m	m1	[c.f. ISO/IEC 9594]
remove-attribute	AttributeType	-	m	m	m1	[c.f. ISO/IEC 9594]
copy-attributes-from	SEQUENCE{ source: SourceEntry, attribute-selection: SET OF Attribute Type OPTIONAL}	-	m	m	m1	[c.f. ISO/IEC 9594] see A.5.1.3
add-values	Attribute	-	o	m	c1	[c.f. ISO/IEC 9594]
remove-values	Attribute	-	o	m	c1	[c.f. ISO/IEC 9594]
add-values-from	SEQUENCE{ source: SourceEntry, attribute-selection: SET OF Attribute Type OPTIONAL}	-	o	m	c1	[c.f. ISO/IEC 9594] see A.5.1.3
put-content	DfrObjectContent	-	c	m	c2(P9)	see A.3.1.4
remove-content	NULL	-	i	i	x	-
copy-content-from	SourceEntry	-	c	m	c2(P9)	see A.5.1.3

A.3.2 CreateResult Parameters

This subclause specifies restrictions on the result parameters of the Create operation.

The specifications provided in A.3.2 of ISO/IEC ISP 12069-4 apply.

A.3.3 Create Error

This subclause specifies restrictions on the result error of the Create operation.

The specifications provided in A.3.3 of ISO/IEC ISP 12069-4 apply.

A.4 Delete

This clause specifies restrictions on the Delete operation.

A.4.1 DeleteArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Delete operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DeleteArgument [SEQUENCE]						
entry	DfrEntryName	-	m	m	c1	see A.3.1.2
CommonArguments						
task-id	OCTET STRING	-	o	o	c1(PA)	-
reservation	Reservation	-	-	-	x	-
error-handling	ErrorHandling Mode	-	-	-	x	-
priority	ENUMERATED	1	o	m	c1	(size: 1 octet)
privileges	Privileges	-	o	o	c1(PS)	see A.11.1.1 in ISO/IEC 12069-6

A.4.2 DeleteResult Parameters

There are no result parameters of the Delete operation.

A.4.3 Delete Error

This subclause specifies restrictions on the result error of the Delete operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
Error [CHOICE]						
NameError	NameError	-	m	m	m2	see A.13.2
AccessError	AccessError	-	m	m	m2	see A.13.3
SecurityError	SecurityError	-	o	o	c1(PS)	see A.13.5
ServiceError	ServiceError	-	m	m	m2	see A.13.6
Abandoned	Abandoned	-	c	c	c2(PA)	see A.13.8
UpdateError	UpdateError	-	m	m	m2	see A.13.11

A.5 Copy

This clause specifies restrictions on the Copy operation.

A.5.1 CopyArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Copy operation.

The specifications provided in A.5.1 of ISO/IEC ISP 12069-4 apply with the following modifications:

— The entries for the "object-class" and "reservation" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
object-class	DfrObjectClass	-	o	o	c1	see A.3.1.1
reservation	Reservation	-	o	m	c1(PR)	see A.9.1.5 in ISO/IEC ISP 12069-6

A.5.1.1 Entry

This subclause specifies restrictions on the "Entry" parameter.

The specifications provided in A.5.1.1 of ISO/IEC ISP 12069-4 apply.

A.5.1.2 EntryModification

This subclause specifies restrictions on the "EntryModification" parameter.

The specifications provided in A.3.1.5 apply with the following modifications:

- The entries for the "put-content", "remove-content" and "copy-content-from" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
put-content	DfrObjectContent	-	c	m	c2(P7)	see A.5.1.5
remove-content	NULL	-	c	m	c2(P7)	-
copy-content-from	SourceEntry	-	c	m	c2(P7)	see A.5.1.3

A.5.1.3 SourceEntry

This subclause specifies restrictions on the "SourceEntry" parameter.

The specifications provided in A.5.1.3 of ISO/IEC ISP 12069-4 apply.

A.5.1.4 ErrorHandlingMode

This subclause specifies restrictions on the "ErrorHandlingMode" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
ErrorHandlingMode [CHOICE]						
all-or-nothing	NULL	-	m	m	m1	-
until-first-warning	NULL	-	c	c	c2	-
report-all-warnings	NULL	-	c	c	c2	-
report-n-warnings	NULL	-	c	c	c2	-

A.5.1.5 DfrObjectContent

This subclause specifies restrictions on the "DfrObjectContent" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DfrObjectContent [CHOICE]						
document-content	EXTERNAL	-	m	m	m2	-
root-group-content	SEQUENCE OF OCTET STRING	-	-	-	x	-
proper-group-content	SEQUENCE OF OCTET STRING	-	o	o	c1(PG)	-
reference-content	DOR	-	o	o	c1(PD)	[cf. ISO/IEC 10031-2]
search-result-list-content	DfrSearchResult ListContent	-	-	-	x	-

A.5.2 CopyResult Parameters

This subclause specifies restrictions on the result parameters of the Copy operation.

The specifications provided in A.5.2 of ISO/IEC ISP 12069-4 apply with the following modifications:

- The entry for the "entry-information" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
entry-information	EntryInformation	-	c	c	c2(P1)	see A.5.2.1

A.5.2.1 EntryInformation

This subclause specifies restrictions on the "EntryInformation" parameter.

The specifications provided in A.7.2.1 of ISO/IEC ISP 12069-3 apply with the following modifications:

- The entries for the "attributes-and-content", "content-only", "attributes-and-part-of-content" and "part-of-content-only" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
attributes-and-content	DfrEntry	-	m	m	m2	see A.5.2.2
content-only	DfrObjectContent	-	m	m	m2	see A.5.2.3
attributes-and-part-of-content	DfrEntry	-	m	m	m2	see A.5.2.2
part-of-content-only	DfrObjectContent	-	m	m	m2	see A.5.2.3

A.5.2.2 DfrEntry

This subclause specifies restrictions on the "DfrEntry" parameter.

The specifications provided in A.7.2.2 of ISO/IEC ISP 12069-3 apply with the following modifications:

- The entry for the "content" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
content	DfrObjectContent	-	o	m	c1	see A.5.2.3

A.5.2.3 DfrObjectContent

The specifications provided in A.7.2.3 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entries for the "proper-group-content" and "search-result-list-content" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
proper-group-content	SEQUENCE OF OCTET STRING	-	o	o	c1(PG)	-
search-result-list-content	DfrSearchResult ListContent	-	o	o	c1(PL)	-

A.5.3 Copy Error

This subclause specifies restrictions on the result error of the Copy operation.

The specifications provided in A.5.3 of ISO/IEC ISP 12069-4 apply.

A.6 Move

This clause specifies restrictions on the Move operation.

A.6.1 MoveArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Move operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
MoveArgument [SEQUENCE]						
CommonUpdateArguments						
object-class	DfrObjectClass	-	o	o	c1	(size: 1 octet) see A.3.1.1
entry	Entry	-	m	m	m1	see A.6.1.1
destination	DfrEntryName	-	m	m	m1	see A.3.1.2
position	GroupMember Position	last	o	o	c1	-
modifications	SEQUENCE OF EntryModification	-	o	o	c1	see A.6.1.2
selection	EntryInformation Selection	-	o	o	c1	see A.7.1.5
reference-qos	Requested-QoS-level	-	-	-	x	-
CommonArguments						
task-id	OCTET STRING	-	o	o	c1(PA)	-

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
reservation	Reservation	see Note	o	m	c1(PR)	see A.9.1.5 in ISO/IEC ISP 12069-6
error-handling	ErrorHandling Mode	-	-	-	x	-
priority	ENUMERATED	1	o	m	c1	(size: 1 octet)
privileges	Privileges	-	o	o	c1(PS)	see A.11.1.1 in ISO/IEC ISP 12069-6

NOTE The default value for the "Reservation" parameter of MoveArgument is explained in ISO/IEC 10166-1.

A.6.1.1 Entry

This subclause specifies restrictions on the "Entry" parameter.

The specifications provided in A.7.1.1 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entry for the "external" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
external	DOR	-	-	-	x	-

A.6.1.2 EntryModification

This subclause specifies restrictions on the "EntryModification" parameter.

The specifications provided in A.5.1.2 apply with the following modifications:

— The entries for the "add-values", "remove-values" and "add-values-from" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
add-values	Attribute	-	m	m	m1	[c.f. ISO/IEC 9594]
remove-values	Attribute	-	m	m	m1	[c.f. ISO/IEC 9594]
add-values-from	SEQUENCE{ source: SourceEntry, attribute-selection: SET OF Attribute Type OPTIONAL}	-	m	m	m1	[c.f. ISO/IEC 9594] see A.5.1.3

A.6.2 MoveResult Parameters

This subclause specifies restrictions on the result parameters of the Move operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
MoveResult						
CommonUpdateResult [SEQUENCE]						
upi	OCTET STRING	-	m	m	m1	(size: max 32 octets)
entry-information	EntryInformation	-	c	c	c2(P1)	see A.5.2.1
warnings	SEQUENCE OF Warning	-	-	-	x	-
continuation	OCTET STRING	-	-	-	x	-
reference-qos	Quality-of-Service	-	-	-	x	-
referent-altered	ReferentStatus	-	i	i	x	-

A.6.3 Move Error

This subclause specifies restrictions on the result error of the Move operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
Error [CHOICE]						
AttributeError	AttributeError	-	m	m	m2	see A.13.1
NameError	NameError	-	m	m	m2	see A.13.2
AccessError	AccessError	-	m	m	m2	see A.13.3
Referent AccessError	Referent AccessError	-	o	o	c1(PE)	see A.13.4
SecurityError	SecurityError	-	o	o	c1(PS)	see A.13.5
ServiceError	ServiceError	-	m	m	m2	see A.13.6
Abandoned	Abandoned	-	c	c	c2(PA)	see A.13.8
Version ManagementError	Version ManagementError	-	o	o	c1(PV)	see A.13.10
UpdateError	UpdateError	-	m	m	m2	see A.13.11
ReservationError	ReservationError	-	m	o	c1(PR)	see A.13.12
InterServer AccessError	InterServer AccessError	-	i	i	x	-

A.7 Read

This clause specifies restrictions on the Read operation.

A.7.1 ReadArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Read operation.

The specifications provided in A.7.1 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entry for the "reservation" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
reservation	Reservation	-	o	m	c1 (PR)	see A.9.1.5 in ISO/IEC 12069-6

A.7.1.1 Entry

This subclause specifies restrictions on the "Entry" parameter.

The specifications provided in A.7.1.1 of ISO/IEC ISP 12069-3 apply.

A.7.1.2 DfrEntryName

This subclause specifies restrictions on the "DfrEntryName" parameter.

The specifications provided in A.7.1.2 of ISO/IEC ISP 12069-3 apply.

A.7.1.3 DfrPathName

This subclause specifies restrictions on the "DfrPathName" parameter.

The specifications provided in A.7.1.3 of ISO/IEC ISP 12069-3 apply.

A.7.1.4 CharacterData

This subclause specifies restrictions on the "CharacterData" parameter.

The specifications provided in A.7.1.4 of ISO/IEC ISP 12069-3 apply.

A.7.1.5 EntryInformationSelection

This subclause specifies restrictions on the "EntryInformationSelection" parameter.

The specifications provided in A.7.1.5 of ISO/IEC ISP 12069-3 apply.

A.7.1.6 AttributeSelection

This subclause specifies restrictions on the "AttributeSelection" parameter.

The specifications provided in A.7.1.6 of ISO/IEC ISP 12069-3 apply.

A.7.1.7 DfrObjectClass

This subclause specifies restrictions on the "DfrObjectClass" parameter.

The specifications provided in A.7.1.7 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entry for the "dfr-search-result-list" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
dfr-search-result-list	-	-	o	o	c1	4

A.7.2 ReadResult Parameters

This subclause specifies restrictions on the result parameters of the Read operation.

The specifications provided in A.7.2 of ISO/IEC ISP 12069-3 apply.

A.7.3 Read Error

This subclause specifies restrictions on the result error of the Read operation.

The specifications provided in A.7.3 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entry for the "ReservationError" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
ReservationError	ReservationError	-	m	o	c1(PR)	see A.13.12

A.8 Modify

This clause specifies restrictions on the Modify operation.

A.8.1 ModifyArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Modify operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
ModifyArgument [SEQUENCE]						
CommonUpdateArguments						
object-class	DfrObjectClass	-	o	o	c1	(size: 1 octet) see A.3.1.1
entry	Entry	-	m	m	m1	see A.6.1.1
destination	DfrEntryName	-	-	-	x	-
position	GroupMember Position	-	-	-	x	-

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
modifications	SEQUENCE OF EntryModification	-	m	m	m1	see A.8.1.1
selection	EntryInformation Selection	-	o	o	c1	see A.7.1.5
reference-qos	Requested-QoS-level	-	-	-	x	-
CommonArguments						
task-id	OCTET STRING	-	o	o	c1(PA)	-
reservation	Reservation	-	o	m	c1(PR)	see A.9.1.5 in ISO/IEC ISP 12069-6
error-handling	ErrorHandling Mode	-	-	-	x	-
priority	ENUMERATED	1	o	m	c1	(size: 1 octet)
privileges	Privileges	-	o	o	c1(PS)	see A.11.1.1 in ISO/IEC ISP 12069-6

A.8.1.1 EntryModification

This subclause specifies restrictions on the "EntryModification" parameter.

The specifications provided in A.6.1.2 apply with the following modifications:

- The entries for the "put-content", "remove-content" and "copy-content-from" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
put-content	DfrObjectContent	-	c	m	c2(P8)	see A.8.1.2
remove-content	NULL	-	c	m	c2(P8)	-
copy-content-from	SourceEntry	-	c	m	c2(P8)	see A.5.1.3

A.8.1.2 DfrObjectContent

This subclause specifies restrictions on the "DfrObjectContent" parameter.

The specifications provided in A.5.1.5 apply with the following modifications:

- The entries for the "proper-group-content" and "reference-content" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
proper-group-content	SEQUENCE OF OCTET STRING	-	-	-	x	-
reference-content	DOR	-	-	-	x	-

A.8.2 ModifyResult Parameters

This subclause specifies restrictions on the result parameters of the Modify operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
ModifyResult						
CommonUpdateResult [SEQUENCE]						
upi	OCTET STRING	-	m	m	m1	(size: max 32 octets)
entry-information	EntryInformation	-	c	c	c2(P1)	see A.8.2.1
warnings	SEQUENCE OF Warning	-	-	-	x	-
continuation	OCTET STRING	-	-	-	x	-
reference-qos	Quality-of-Service	-	-	-	x	-
referent-altered	ReferentStatus	-	i	i	x	-

A.8.2.1 EntryInformation

This subclause specifies restrictions on the "EntryInformation" parameter.

The specifications provided in A.6.2.1 apply with the following modifications:

- The entries for the "attributes-and-content", "content-only", "attributes-and-part-of-content" and "part-of-content-only" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
attributes-and-content	DfrEntry	-	m	m	m2	see A.8.2.2
content-only	DfrObjectContent	-	m	m	m2	see A.8.2.3
attributes-and-part-of-content	DfrEntry	-	m	m	m2	see A.8.2.2
part-of-content-only	DfrObjectContent	-	m	m	m2	see A.8.2.3

A.8.2.2 DfrEntry

This subclause specifies restrictions on the "DfrEntry" parameter.

The specifications provided in A.7.2.2 of ISO/IEC ISP 12069-3 apply with the following modifications:

- The entry for the "content" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
content	DfrObjectContent	-	o	m	c1	see A.8.2.3

A.8.2.3 DfrObjectContent

The specifications provided in A.7.2.3 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entry for the "reference-content" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
reference-content	DOR	-	-	-	x	-

A.8.3 Modify Error

This subclause specifies restrictions on the result error of the Modify operation.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
Error [CHOICE]						
AttributeError	AttributeError	-	m	m	m2	see A.13.1
NameError	NameError	-	m	m	m2	see A.13.2
AccessError	AccessError	-	m	m	m2	see A.13.3
Referent AccessError	Referent AccessError	-	o	o	c1(PE)	see A.13.4
SecurityError	SecurityError	-	o	o	c1(PS)	see A.13.5
ServiceError	ServiceError	-	m	m	m2	see A.13.6
Abandoned	Abandoned	-	c	c	c2(PA)	see A.13.8
Version ManagementError	Version ManagementError	-	o	o	c1(PV)	see A.13.10
UpdateError	UpdateError	-	m	m	m2	see A.13.11
ReservationError	ReservationError	-	m	o	c1(PR)	see A.13.12
InterServer AccessError	InterServer AccessError	-	i	i	x	-

A.9 List

This clause specifies restrictions on the List operation.

The specifications provided in A.9 of ISO/IEC ISP 12069-6 apply.

A.10 Search

This clause specifies restrictions on the Search operation.

A.10.1 SearchArgument Parameters

This subclause specifies restrictions on the arguments used in the invocation of the Search operation.

The specifications provided in A.10.1 of ISO/IEC ISP 12069-3 apply with the following modifications:

- The entries for the "search-mode", "search-domain", "search-criteria" and "reservation" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
search-mode	SearchMode	-	m	m	m1	see A.10.1.1
search-domain	SearchDomain	-	c	m	c2(P12)	see A.10.1.3
search-criteria	SearchCriteria	-	c	m	c2(P12)	[cf. ISO/IEC 9594-3]
reservation	Reservation	-	o	m	c1(PR)	see A.9.1.5 in ISO/IEC ISP 12069-6

A.10.1.1 SearchMode

This subclause specifies restrictions on the "SearchMode" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
SearchMode [CHOICE]						
continue	DfrEntryName	-	m	m	m1	see A.3.1.2
update	DfrEntryName	-	m	m	m1	see A.3.1.2
new-search-stored	DfrEntryName	-	m	m	m1	see A.3.1.2
non-stored-search	NULL	-	m	m	m1	-

A.10.1.2 Limits

This subclause specifies restrictions on the "Limits" parameter.

The specifications provided in A.10.1.2 of ISO/IEC ISP 12069-3 apply.

A.10.1.3 SearchDomain

This subclause specifies restrictions on the "SearchDomain" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
SearchDomain [SEQUENCE OF CHOICE]						
previous-result	DfrEntryName	-	m	m	m1	see A.4.1.1
scope	Scope	-	m	m	m1	see A.10.1.4 in ISO/IEC ISP 12069-3

A.10.2 SearchResult Parameters

This subclause specifies restrictions on the result parameters of the Search operation.

The specifications provided in A.10.2 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entry for the "removed-entries" element is replaced by the following entry:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
removed-entries	DfrEntryList	-	c	m	c2 (P10)	see A.9.2.1 in ISO/IEC ISP 12069-3

A.10.3 Search Error

This subclause specifies restrictions on the result error of the Search operation.

The specifications provided in A.10.3 of ISO/IEC ISP 12069-3 apply with the following modifications:

— The entries for the "ReservationError" and "UpdateError" elements are replaced by the following entries:

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
UpdateError	UpdateError	-	m	o	c1(P11)	see A.13.11
ReservationError	ReservationError	-	m	o	c1(PR)	see A.13.12

A.11 Reserve

This clause specifies restrictions on the Reserve operation.

The specifications provided in A.11 of ISO/IEC ISP 12069-6 apply.

A.12 Abandon

This clause specifies restrictions on the Abandon operation.

The specifications provided in A.12 of ISO/IEC ISP 12069-3 apply.

A.13 Error

This clause explains details on the parameters which report errors that have been detected in each operation.

The table below shows the list of errors responding to each operation.

	BI	UN	CR	DE	CO	MO	RE	MD	LI	SE	RS	AB
AttributeError	-	-	m	-	m	m	-	m	m	m	-	-
NameError	-	-	m	m	m	m	m	m	m	m	m	-
AccessError	-	-	m	m	m	m	m	m	m	m	-	-
ReferentAccessError	-	-	o	-	o	o	m	o	-	-	-	-
SecurityError	m	-	o	o	o	o	o	o	o	o	o	-
ServiceError	m	-	m	m	m	m	m	m	m	m	m	-
AbandonFailed	-	-	-	-	-	-	-	-	-	-	-	m
Abandoned	-	-	c	c	c	c	c	c	m	m	c	-
ExternalServerError	-	-	-	-	-	-	m	-	-	m	-	-
VersionManagementError	-	-	o	-	o	o	-	o	-	-	-	-
UpdateError	-	-	m	m	m	m	-	m	-	o	-	-
ReservationError	-	-	-	-	-	o	o	o	o	o	m	-
InterServerAccessError	-	-	i	-	i	i	i	i	-	-	-	-

NOTE BI: Bind, UN: Unbind, CR: Create, DE: Delete, CO: Copy, MO: Move, RE: Read, MD: Modify, LI: List, SE: Search, RS: Reserve, AB: Abandon.

A.13.1 AttributeError

This subclause specifies restrictions on the parameters of the "AttributeError" error.

The specifications provided in A.13.1 of ISO/IEC ISP 12069-3 apply.

A.13.1.1 Problems

This subclause specifies restrictions on the "Problems" parameter.

The specifications provided in A.13.1.1 of ISO/IEC ISP 12069-3 apply.