

INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC
ISP
12069-3

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

Part 3:

**ADF11 — Common Document Filing and
Retrieval — Read Only Profile**

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

*Partie 3: ADF11 — Classement et recherche documentaire courants —
Profil à lecture morte*



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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 12069-3 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*

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 3:

ADF11 — Common Document Filing and Retrieval — Read Only Profile

1 Scope

1.1 General

This part of ISO/IEC ISP 12069 contains the overall specifications of the support of document filing and retrieval functionality between a DFR user and a DFR server using DFR access protocol. These specifications form the read only capability of Common Document Filing and Retrieval application functions.

For this part of ISO/IEC ISP 12069, specifications defined in ISO/IEC ISP 12069 Part 1 apply.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 12069 is the third part of the DFR ISPs. The structure of DFR ISPs are described in ISO/IEC ISP 12069 Part 1.

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

1.3 Scenario

The model used is one of a DFR user and a DFR server intercommunicating using the ADF11 Profile of DFR protocol, as shown in figure 1.

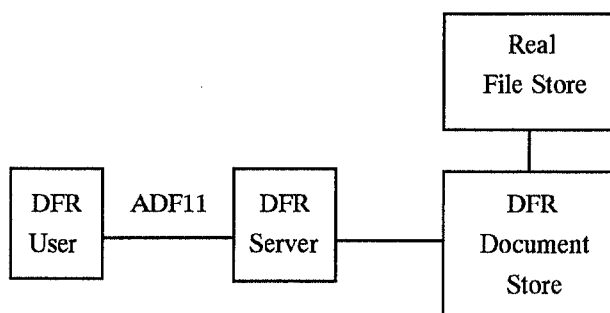


Figure 1 - ADF11 scenario

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 ISP 12069-1: 1996,

Information technology — International Standardized Profile ADFnn — Document Filing and Retrieval (DFR) — Part 1: Introduction to the DFR ISP.

ISO/IEC ISP 12069-2: 1996,

Information technology — International Standardized Profile ADFnn — Document Filing and Retrieval (DFR) — Part 2: Specification of ROSE, RTSE, ACSE, Presentation and Session protocols for use by DFR.

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

The abbreviations specified 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 ADF11 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 ADF11

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 ADF11.

6.1 Support Classification

For this part of ISO/IEC ISP 12069, the constraints provided in ISO/IEC ISP 12069-1: 1996, 3.2 apply.

6.2 Support classification of service

The support classification for each operation in this part of ISO/IEC ISP 12069 is described in Table 1.

Table 1- Support classification for DFR Operations

Operation	Support classification
DfrBind	m
DfrUnbind	m
Create	i
Delete	i
Copy	i
Move	i
Read	m
Modify	i
List	m
Search	m
Reserve	i
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 ISO/IEC ISP 12069 parts 1, 2 and 3 and table A.1 in this annex, this annex is to take precedence.

This annex specifies the support constraints and characteristics of ISO/IEC ISP 12069 on what shall or may appear in the implementation of ADF11.

In each table, The "Static client" means static capability required for ADF11 user implementation. The "Static server" means static capability required for ADF11 server implementation. The "Dynamic" means dynamic behavior between ADF11 user and server implementation.

NOTES

1 "ENUMERATED" in the base standard is noted here as "CHOICE" for explanatory purpose.

2 To clarify relationship between tables, temporary data types are introduced in this part of ISO/IEC ISP 12069 when complex parameters are defined in the base standard without defying corresponding data types.

Table A.1 defines specific conditions that are used to determine the conditional support classifications.

Table A.1- Specific Conditions

Symbol	Condition	Support classification	
		TRUE	FALSE
p1	The Argument exists, and the Result or the Error corresponding to the Argument exists.	m2	x
p2	The Operation encounters a limit.	m2	x
p3	Access rights is implemented and the Error exists.	m2	x
p4	The Error which isn't specified in this document exists.	m2	x
p5	Pathname, Reference, or Access rights is implemented.	m2	x
p6	The Contents exists.	m2	x
PA	Function Group Abandon is implemented.	m2	x
PV	Function Group Version is implemented.	m2	x
PD	Function Group use of DOR is implemented.	m2	x
PS	Function Group Security is implemented.	m2	x

NOTE- This table defines symbols to be used for the explanatory remarks.

For each symbol (**p1**, **p2**, 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.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DfrBindArgument [SEQUENCE]						
initiator-name	Distinguished Name	-	m	m	m1	[cf. ISO/IEC 9594-2]
credentials	Credentials	-	m	m	m1	see A.1.1.1
retrieve-restrictions	Restrictions	-	o	m	c1	see A.1.1.2
dfr-configuration request	BOOLEAN	FALSE	o	m	c1	TRUE or FALSE
bind-security	EXTERNAL	-	o	o	c1 (PS)	-
priority	ENUMERATED	1	o	m	c1	0 or 1 or 2 (1 octet)
dor-for-produce-operations	BOOLEAN	TRUE	o	o	c1 (PD)	TRUE or FALSE
dor-for-consume operations	BOOLEAN	TRUE	o	o	c1 (PD)	TRUE or FALSE
protocol-version	INTEGER	1	o	o	c1	1 or 2 (1 octet)
bilateral Information	SEQUENCE OF Bilateral Information Entry	-	o	o	c1	see A.1.1.3

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
dTAM-manipulation-capabilities	Manipulation Capabilities	-	-	-	x	[cf. ITU-T Rec. T.435]
dTAM-protocol-version	BITSTRING	-	-	-	x	-
dfr-profile-selection	OBJECT IDENTIFIER	-	o	m	c1	-
application-requirements	Application Requirement	-	o	o	c1	OCTED STRING or OBJECT IDENTIFIER

A.1.1.1 Credentials

This subclause specifies restrictions on the "Credentials" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
Credentials [CHOICE]						
simple	OCTET STRING	-	m	m	m2	max 128 octets
certified	EXTERNAL	-	o	o	c1 (PS)	-

A.1.1.2 Restrictions

This subclause specifies restrictions on "Restrictions" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
Restrictions [SET]						
allowed-document-types	SET OF OBJECT IDENTIFIER	-	o	o	c1	-
maximum-length	INTEGER	-	o	o	c1	512 or more

A.1.1.3 BilateralInformationEntry

This subclause specifies restrictions on "BilateralInformationEntry" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
BilateralInformationEntry [SEQUENCE]						
serverName	Distinguished Name	-	m	m	m1	[cf. ISO/IEC 9594]
information	EXTERNAL	-	m	m	m1	-

A.1.2 DfrBindResult Parameters

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

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DfrBindResult [SET]						
authentication-attributes	SET OF EXTERNAL	-	o	o	c1 (PS)	-
constraints-supported	ConstraintsType	-	c	m	c2 (p1)	see A.1.2.1
dfr-document-types-supported	SET OF TypeAnd Attribute	-	c	m	c2 (p1)	see A.1.2.2
function-set-supported	INTEGER	-	c	m	c2 (p1)	1 or 2 or 3 (1 octet)
maximum-length-supported	INTEGER	-	c	m	c2 (p1)	512 or more
dor-for-produce-operations	BOOLEAN	TRUE	o	o	c1 (PD)	TRUE or FALSE
dor-for-consume-operations	BOOLEAN	TRUE	o	o	c1 (PD)	TRUE or FALSE
rOA-protocols-accessee	SEQUENCE OF OBJECT IDENTIFIER	-	o	o	c1 (PD)	-
rOA-protocols-accessor	SEQUENCE OF OBJECT IDENTIFIER	-	o	o	c1 (PD)	-
bilateral Information	SEQUENCE OF Bilateral Information ENTRY	-	o	o	c1 (p1)	see A.1.1.3
server-selected-protocol-version	INTEGER	-	c	m	c2 (p1)	1 or 2 (1 octet)

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
server-selected-dTAM-capabilities	SEQUENCE OF OdaApplication Capabilities	-	-	-	x	[cf. ITU-T Rec. T.435]
server-selected-dTAM-protocol-version	BITSTRING	-	-	-	x	-

A.1.2.1 ConstraintsType

This subclause specifies restrictions on the "ConstraintsType" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
ConstraintsType [SEQUENCE]						
name-constraint	ENUMERATED	-	m	m	m1	0 or 1 or 2 (1 octet)
version-constraint	ENUMERATED	-	m	m	m1 (PV)	0 or 1 or 2 (1 octet)
profile-supported	SEQUENCE OF OBJECT IDENTIFIER	-	o	o	m1	-

A.1.2.2 TypeAndAttribute

This subclause specifies restrictions on the "TypeAndAttribute" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
TypeAndAttribute [SEQUENCE]						
document-types	OBJECT IDENTIFIER	-	m	m	m1	-
attributes	SET OF AttributeType	-	m	m	m1	[cf. ISO/IEC 9594]

A.1.3 DfrBindError Parameters

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

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DfrBindError [CHOICE]						
service-error	ServiceError	-	m	m	m2	see A.13.6
security-error	SecurityError	-	m	m	m2	see A.13.5
dtam-dm-error	Manipulation Problem	-	-	-	x	-

A.2 DfrUnbind

This clause specifies restrictions on the DfrUnbind operation.

A.2.1 DfrUnbindArgument Parameters

None.

A.2.2 DfrUnbindResult Parameters

None.

A.2.3 DfrUnbindError Parameters

None.

A.3 Create

This operation is not supported by this profile.

A.4 Delete

This operation is not supported by this profile.

A.5 Copy

This operation is not supported by this profile.

A.6 Move

This operation is not supported by this profile.

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.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
ReadArgument [SEQUENCE]						
CommonUpdateArguments						
object-class	DfrObjectClass	-	o	o	cl	see A.7.1.7
entry	Entry	-	m	m	m1	see A.7.1.1
destination	DfrEntryName	-	-	-	x	see A.7.1.2
position	GroupMember Position	-	-	-	x	-
modification	SEQUENCE OF Entry Modification	-	-	-	x	-
selection	EntryInformation Selection	-	m	m	m1	see A.7.1.5
reference-qos	Requested-QoS-Level	-	o	o	cl (PD)	[cf. ISO/IEC 10031-2]
deferencing	BOOLEAN	FALSE	o	m	cl	TRUE or FALSE
token	Token	-	o	o	cl (PD)	[cf. ISO/IEC 10031-2]

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
CommonArguments						
task-id	OCTET STRING	-	o	o	c1 (PA)	max 16 octets
reservation	Reservation	-	i	i	x	-
error-handling	ErrorHandling Mode	-	-	-	x	see A.9.1.4
priority	ENUMERATED	1	o	m	c1	0 or 1 or 2 (1 octet)
privileges	Privileges	-	o	o	c1 (PS)	see A.7.1.9

NOTE: The Entry data type is not defined in the base standards, but it is aligned with the specification of the entry parameter in the base standard.

A.7.1.1 Entry

This subclause specifies restrictions on the "Entry" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
Entry [CHOICE]						
local	DfrEntryName	-	m	m	m1	see A.7.1.2
external	DOR	-	o	o	c1 (PD)	[cf. ISO/IEC 10031-2]

A.7.1.2 DfrEntryName

This subclause specifies restrictions on the "DfrEntryName" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DfrEntryName [CHOICE]						
upi	OCTET STRING	-	m	m	m2	max 32 octets
path-name	DfrPathName	-	m	m	m2	max 1024 octets see A.7.1.3
relative-path-name	SEQUENCE { base: OCTET STRING path: DfrPathName }	-	o	o	c1	max 1024 octets see A.7.1.3

A.7.1.3 DfrPathName

This subclause specifies restrictions on the "DfrPathName" parameter.

Element	Data Type	Default	Static Client	Static Server	Dynamic	Comments
DfrPathName [SEQUENCE]						
DfrTitle	CharacterData	-	m	m	m1	max 256 octets see A.7.1.4