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Information technology — Information Resource Dictionary System (IRDS) Services Interface

AMENDMENT 3: CORBA IDL binding

*Technologies de l'information — Interface de services du gestionnaire de
ressources du système d'informations (IRDS)*

AMENDEMENT 3: Liaison CORBA IDL



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Foreword

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Contents

Add a new entry to the Table of Contents as follows:

"Annex E - CORBA IDL binding"

Page 1

Clause 1

Add a new sentence in Clause 1 paragraph 2, before the last sentence.

"A language binding for CORBA IDL is provided in Annex E."

Page 5

Subclause 4.4

Add a new sentence in subclause 4.4.

"Data structures for use with CORBA IDL are defined in Annex E."

Page 5

Subclause 4.5

Add a new sentence in subclause 4.5.

"CORBA IDL bindings for the services are provided in Annex E."

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Subclause 8.1

Amend the first sentence of the NOTE in clause 8.1 to read:

"For the Pascal language binding specified in this clause, the C language binding specified in Annex C, the Ada language binding specified in Annex D and the CORBA IDL binding specified in Annex E, enumerated types are"

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Clause 9

Amend the first sentence of the second paragraph of Clause 9 to read:

"The service formats are specified in this clause using ISO standard Pascal. Alternative service formats for use with the C language binding are specified in Annex C, for the Ada language binding in Annex D and the CORBA IDL binding in Annex E."

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Add a new Annex E as follows:

Annex E

(normative)

CORBA IDL Binding

The IRDS Services Interface language bindings for the CORBA Interface Definition Language are presented in the form of a .idl file as set out in clause E.4 below.

E.1 Strategy for the Language Binding

In this binding the data names and data structures defined in clause 8 have been adhered to except where the CORBA IDL does not provide an appropriate construct.

In this binding the procedure names and their parameters defined in clause 8 have been adhered to except where the CORBA IDL does not provide an appropriate construct.

#define statements have been used for various limits instead of because CORBA IDL compilers will not accept a as an array length specifier.

Use of this language binding requires the use of a CORBA IDL compiler that conforms to ISO/IEC {Editor to insert reference} level {Editor to insert level identification}.

E.2 Class Architecture

The following class architecture is proposed. Note that these are only the classes that *need* to be visible across the CORBA interface. A finer grained class structure may be appropriate in future, but that this probably ought to be a starting point. Moving to further classes such as IRDDefinition, IRD, WorkingSet and IRDObject would be a natural next step and not inconsistent with the objects defined below.

Class Name	Services	10728 Clause Reference
IrdServicesInterfaceProcessor	IrdCreateIRDDefinition	9.1.1
	IrdDropIRDDefinition	9.1.2
	IrdOpen	9.1.3
IrdSession	IrdPrepare	9.1.4
	IrdCommit	9.1.5
	IrdRollback	9.1.6
	IrdClose	9.1.7
	IrdGetDiagnostics	9.1.8
	IrdSetContext	9.2.1
	IrdAddObject	9.2.2
	IrdOpenCursor	9.2.3

Class Name	Services	10728 Clause Reference
IrdSession (continued)	IrdRetrieveObject	9.2.4
	IrdModifyObject	9.2.5
	IrdDeleteObject	9.2.6
	IrdDeclassifyObject	9.2.7
	IrdReclassify	9.2.8
	IrdCloseCursor	9.2.9
	IrdCreateWorkingSet	9.2.10
	IrdDropWorkingSet	9.2.11
	IrdModifyContentStatus	9.2.12
	IrdCreateReferencePath	9.2.13
	IrdModifyReferencePath	9.2.14
	IrdDropReferencePath	9.2.15
	IrdCreateIRD	9.3.1
	IrdDropIRD	9.3.2
	IrdDeactivateIRD	9.3.3
	IrdReactivateIRD	9.3.4
	IrdValidateIRDSchemaGroup	9.3.5

E.3 General Rules

1. Those data names in E.4 below that also appear in Clause 8 shall have the same meaning as is defined in Clause 8. The same rules for the use of separators as defined in Clause 8 shall apply.
2. The function and parameter names in E.4 below shall have the same meaning as is defined in Clause 9.
3. The Service Return Codes returned shall be those defined by Clause 9 and Annex A and they shall have the same meaning.