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BSI Standards Publication

Information technology — Metadata registries (MDR)

Part 3: Metamodel for registry common facilities



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National foreword

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Contents

Page

Foreword ..... **x**

Introduction ..... **xii**

1 Scope **1**
1.1 Structure of a metadata registry 1
1.2 Model extensions 1

2 Normative references **1**

3 Terms, definitions and abbreviated terms **2**
3.1 Terms related to metamodel constructs 2
3.2 Terms related to concepts 5
3.3 Abbreviated terms 17

4 Conformance **17**
4.1 Overview of conformance 17
4.2 Degree of conformance 18
4.2.1 General 18
4.2.2 Strictly conforming implementations 18
4.2.3 Conforming implementations 18
4.3 Conformance by feature 19
4.4 Registry conformance 19
4.4.1 Overview 19
4.4.2 Standard profiles for registries 19
4.4.3 Conformance labels 19
4.5 Obligation 20
4.6 Implementation conformance statement (ICS) 20
4.7 Roles and responsibilities for registration 20

5 Approach to modelling a metadata registry **20**
5.1 Metamodel for a metadata registry 20
5.2 Application of the metamodel 21
5.3 Specification of the metamodel 21
5.3.1 Terminology used in specifying the metamodel 21
5.3.2 Choice of fonts 22
5.3.3 Use of UML Packages 22
5.3.4 Package dependencies 23
5.3.5 Use of UML Class diagrams and textual description 23
5.3.6 Use of dot notation 24
5.4 Types, instances and values 24
5.5 Extensibility 24
5.6 Date references 24

6 Basic_and_Core package **25**
6.1 Overview of Basic_and_Core package 25
6.2 Predefined types metamodel region 25
6.2.1 Overview of predefined types 25
6.2.2 Boolean 25
6.2.3 Datetime 25
6.2.4 Date 25
6.2.5 Integer 26
6.2.6 Natural_Range 26
6.2.7 Notation 26
6.2.8 Phone_Number 26
6.2.9 Postal_Address 26
6.2.10 Sign 26
6.2.11 String 26
6.2.12 Text 27

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〈A1〉 6.2.14 BLOB ..... 27 〈A1〉
6.3 Basic classes metamodel region 27
6.3.1 Overview of basic classes 27
6.3.2 Individual class 28
6.3.3 Organization class 29
6.3.4 Role class 29
6.3.5 Contact class 30
6.3.6 Document_Type class 30
6.3.7 Language_Identification class 31
6.3.8 Reference_Document class 33
6.3.9 Registration_Authority_Identifier class 33
6.3.10 Datetime_Period class 34
6.4 Core metamodel region 34
6.4.1 Overview of Core metamodel region 34
6.4.2 Classes in the Core metamodel region 35
6.4.3 Associations in the Core metamodel region 37

7 Identification package 38
7.1 Overview of Identification metamodel region 38
7.2 Classes referenced from the Basic_and_Core package 38
7.2.1 Item class 38
7.3 Classes in the Identification metamodel region 39
7.3.1 Identified_Item class 39
7.3.2 Scoped_Identifier class 39
7.3.3 Namespace class 40
7.4 Associations in the Identification metamodel region 42
7.4.1 item_identification association 42
7.4.2 identification association 43
7.4.3 identifier_scope association 43

8 Designation_and_Definition package 43
8.1 Overview of Designation and Definition metamodel region 43
8.2 Classes referenced from the Basic_and_Core package 44
8.2.1 Item class 44
8.2.2 Context class 44
8.3 Classes referenced from the Identification package 45
8.3.1 Namespace class 45
8.4 Classes in the Designation and Definition metamodel region 47
8.4.1 Designation class 47
8.4.2 Definition class 48
8.4.3 Designation_Definition_Pairing class 49
8.4.4 Naming_Convention class 50
8.5 Association classes in the Designation and Definition metamodel region 51
8.5.1 Definition_Context association class 51
8.5.2 Designation_Context association class 52
8.6 Associations in the Designation and Definition metamodel region 52
8.6.1 context_for_pairing association 52
8.6.2 designation_namespace association 52
8.6.3 item_definition association 52
8.6.4 item_designation association 53
8.6.5 naming_convention_conformance association 53
8.6.6 naming_convention_utilization association 53
8.6.7 paired_definition association 53
8.6.8 paired_designation association 53
8.7 Datatypes in the Designation and Definition metamodel region 53
8.7.1 Acceptability enumeration 53

9 Registration package 54
9.1 Overview of Registration metamodel region 54
9.2 Classes referenced from the Basic and core package 56

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9.2.2 Organization class ... 56
9.2.3 Reference_Document class ... 56
9.3 Classes referenced from the Identification package ... 56
9.3.1 Identified_Item ... 56
9.3.2 Namespace class ... 57
9.4 Classes in the Registration region ... 57
9.4.1 Registered_Item class ... 57
9.4.2 Administered_Item class ... 58
9.4.3 Attached_Item class ... 59
9.4.4 Registration_State class ... 60
9.4.5 Constraint_Set class ... 61
9.4.6 Registration_Authority class ... 62
9.4.7 Registrar class ... 63
9.4.8 Stewardship_Record class ... 63
9.4.9 Submission_Record class ... 64
9.4.10 Registry_Specification class ... 65
9.5 Associations in the Registration region ... 68
9.5.1 attachment association ... 68
9.5.2 reference association ... 68
9.5.3 registered_item_constraint_set association ... 68
9.5.4 registration association ... 68
9.5.5 registration_authority_namespace association ... 69
9.5.6 registration_authority_registrar association ... 69
9.5.7 stewardship association ... 69
9.5.8 submission association ... 69
A1 9.5.9 registry_claims_conformance association ... 69 A1
9.6 Datatypes in the Registration metamodel region ... 69
9.6.1 Degree_of_Conformance enumeration ... 69
9.6.2 Registration_Status enumeration ... 70

10 Classification package ... 71
10.1 Overview of Classification metamodel region ... 71
10.2 Classes referenced from the Basic and core package ... 72
10.2.1 Item class ... 72
10.3 Classes in the Classification metamodel region ... 72
10.3.1 Classification_Scheme class ... 72
10.3.2 Classification_Scheme_Item class ... 73
10.3.3 Classification_Scheme_Item_Relationship class ... 74
10.3.4 Classification_Scheme_Item_Relationship_Type class ... 74
10.4 Associations in the Classification metamodel region ... 75
10.4.1 item_classification association ... 75
10.4.2 classification_scheme_membership association ... 75
10.4.3 subject_classification_scheme_item association ... 75
10.4.4 object_classification_scheme_item association ... 75
10.4.5 classification_scheme_item_relationship_categorization association ... 75

A1 **11 Item_Mapping package ... 76**
11.1 Overview of the Item_Mapping metamodel region ... 76
11.2 Classes referenced from the Basic and core package ... 76
11.2.1 Item class ... 76
11.3 Classes in the Item_Mapping metamodel region ... 77
11.3.1 Item_Mapping class ... 77
11.4 Association Classes in the Item_Mapping metamodel region ... 81
11.4.1 Subject_Mapping association class ... 81
11.4.2 Object_Mapping association class ... 82
11.5 Associations in the Item_Mapping metamodel region ... 82
11.6 Datatypes in the Item Mapping metamodel region ... 83
11.6.1 Item_Mapping_Degree enumeration ... 83

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11.7 Classes referenced from the Rules package 84

12 Rules package 85

12.1 Overview of the Rules metamodel region 85
12.2 Classes referenced from the Basic and core package 85
12.3 Classes in the Rules metamodel region 86
12.4 Association Classes in the Mapping metamodel region 91
12.5 Associations in the Rules metamodel region 92
12.6 Datatypes in the Rules metamodel region 93

Annex A (informative) **Consolidated class hierarchy 94**

Annex B (informative) **Illustrations of Item_Mapping 95**

Annex C (informative) **Example of Registering a simple Conceptual Domain 107**

Annex D (informative) **Guidance for generating code or pseudocode from Rules 112**

Annex E (informative) **List of useful functions for Rules 113**

Bibliography 115

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List of Figures

Figure 1 — Package dependencies **23**
Figure 2 — Predefined types metamodel region **25**
Figure 3 — Basic classes metamodel region **28**
Figure 4 — Core metamodel region **35**
Figure 5 — Identification metamodel region **38**
Figure 6 — Designation and Definition metamodel region **43**
Figure 7 — Registration metamodel region **55**
Figure 8 — Classification metamodel region **71**
Figure 9 — Item mapping **76**
A1 **Figure 10 — Rules metamodel region** **85** A1
Figure A.1 — Consolidated class hierarchy **94**
Figure B.1 — Object Diagram for the 'same as' mapping example **96**
Figure B.2 — Object Diagram for the 'derived from' mapping example **97**
Figure B.3 — Example UML Class Diagram for the Product Supplier concept (as used by System A) **99**
Figure B.4 — Example IDEF1X Model for the Product Supplier concept (as used by System B) **99**
Figure B.5 — Object Diagram for the 'semantically equivalent' mapping example **101**
Figure B.6 — Object Diagram for the 'semantically similar' mapping example **105**
Figure C.1 — Example object model of Conceptual Domain registration **108**

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Table 1 — Attributes of Individual class 29
Table 2 — Attributes of Organization class 29
Table 3 — Attributes of Role class 30
Table 4 — Attributes of Contact class 30
Table 5 — Attributes of Document_Type class 31
Table 6 — Attributes of Language_Identification class 31
Table 7 — Attributes of Reference_Document class 33
Table 8 — Attributes of Registration_Authority_Identifier class 34
Table 9 — Attributes of Datetime_Period class 34
Table 10 — Attributes of Concept class 36
Table 11 — Attributes of Slot class 37
Table 12 — Attributes of Scoped_Identifier class 39
Table 13 — Attributes of Namespace class 41
Table 14 — Attributes of Designation class 47
Table 15 — Attributes of Definition class 49
Table 16 — Attributes of *Designation_Definition_Pairing* class 50
Table 17 — Attributes of Naming_Convention class 50
Table 18 — Attributes of Definition_Context association class 52
Table 19 — Attributes of Designation_Context association class 52
Table 20 — Enumeration of Acceptability ratings 54
Table 21 — Attributes of Administered_Item class 58
Table 22 — Attributes of Registration_State class 60
Table 23 — Attributes of Constraint_Set class 62
Table 24 — Attributes of Registration_Authority class 63
Table 25 — Attributes of Registrar class 63
Table 26 — Attributes of Stewardship_Record class 64
Table 27 — Attributes of Submission_Record class 65
Table 28 — Attributes of Registry_Specification class 65
[A1] **Table 29 — Attributes of Registry_Conformance class** 67 [A1]
Table 30 — Enumeration of Degree_of_Conformance 70
Table 31 — Enumeration of Registration Statuses 70
Table 32 — Attributes of Classification_Scheme_Item class 73
Table 33 — Attributes of *Item_Mapping* class 78
Table 34 — Attributes of *Item_Mapping_Transformation* class 79
Table 35 — Attributes of Provenance class 80
Table 36 — Attributes of Provenance_Review class 81
Table 37 — Attributes of Provenance_Review_Approval class 81
Table 38 — Attributes of Subject_Mapping association class 82
Table 39 — Attributes of Object_Mapping association class 82

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Table 41 — Attributes of Simple_Condition class **88**
Table 42 — Attributes of Complex_Condition class **89**
Table 43 — Attributes of Constant class **90**
Table 44 — Attributes of Variable class **91**
Table 45 — Attributes of Function class **91**
Table 46 — Attributes of Function_Parameters association class **92**
Table 47 — Enumeration of Comparator values **93**
Table 48 — Enumeration of Logical_Operator values **93**
Table B.1 — Examples of Mapping Degree usage **95**
Table B.2 — Table of Items used in 'same as' example **96**
Table B.3 — Item_Mapping for 'Birth Date_Mapping' **96**
Table B.4 — Table of Items used in 'derived_from' example **96**
Table B.5 — Item_Mapping class 'isodate_mapping1' **97**
Table B.6 — Item_Mapping_Transformation class 'isodate_transform1' **98**
Table B.7 — Table of Subject_Mappings for isodate_mapping1 ..... **98**
Table B.8 — Table of Object_Mappings for isodate_mapping1 ..... **98**
Table B.9 — Item_Mapping class 'isodate_mapping2' **98**
Table B.10 — Item_Mapping_Transformation class 'isodate_transform2' **98**
Table B.11 — Table of Subject_Mappings for isodate_mapping2 ..... **99**
Table B.12 — Table of Object_Mappings for isodate_mapping2 ..... **99**
Table B.13 — Table of Items used in this example **100**
Table B.14 — Table of Item_Mappings for this example **102**
Table B.15 — Table of Mapping_Hierarchy associations **102**
Table B.16 — Table of Items used in this example **103**
Table B.17 — Table of Item_Mappings for this example **106**
Table B.18 — Table of Mapping_Hierarchy association **106**
Table E.1 — Suggested functions for Rules **113**

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents) or the IEC list of patent declarations received (see https://patents.iec.ch).

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This document was prepared by Joint Technical Committee ISO/IEC/JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This fourth edition cancels and replaces the third edition (ISO/IEC 11179-3:2013), which has been technically revised. It also incorporates the Amendment ISO/IEC 11179-3:2013/Amd.1:2020.

The main changes are as follows:

— this fourth edition presents a metamodel for the Common Facilities of a Basic Registry which has potential use for more than just metadata;

— the previous edition has been split into multiple parts to make it more manageable;

  — the Basic Attributes (formerly Clause 12) have been moved to ISO/IEC 11179-30: Basic attributes of metadata;

  — the Data Description region (formerly Clause 11) has been moved to ISO/IEC 11179-31: Metamodel for data specification registration;

  — the Concepts region (formerly Clause 9) and the Binary Relations region (formerly Clause 10) have been moved to ISO/IEC 11179-32: Metamodel for concept system registration;

— simplification of the UML used to describe the metamodels, such as:

  — elimination of use of stereotypes;

  — addition of an explicit 'Item' class as the superclass of all types of registry items;

  — removal of role names on associations;

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  - removal of redundant specification of attributes and associations in the text;

- refactoring of some of the packages to reduce dependencies, including:
  - moving the Concept class to the Basic and Core package where it is referenced from multiple metamodel regions, including: the Data Specification package in ISO/IEC 11179-31, the Concept System package in ISO/IEC 11179-32, the Data Set package in ISO/IEC 11179-33 and the Model package in ISO/IEC 11179-35;
  - moving the Context class to the Basic and Core package where it is referenced from the Designation and Definition package in this document, the Data Specification package in ISO/IEC 11179-31 and the Data Set package in ISO/IEC 11179-33;
  - moving the Slot class to the Basic and Core package, a more appropriate location than the Identification package;
  - a Classification region has been restored, based on the style of ISO/IEC 11179-3:2003[12], to remove dependency on the Concept System region for classification;
- adding a generic mapping facility among registry items;
- a change to the formatting of the text in Clauses 5 through 11 and Annexes B and C, to better align with ISO Directives and ISO House Style, see 5.3.2.

A list of all parts in the ISO/IEC 11179 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

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Introduction

Data processing and electronic data interchange rely heavily on accurate, reliable, controllable and verifiable data recorded in databases. A prerequisite for correct and proper use and interpretation of data is that both users and owners of data have a common understanding of the meaning and representation of the data. To facilitate this common understanding, a number of characteristics, or attributes, of the data have to be defined. These characteristics of data are known as “metadata”, that is, “data that describes data”.

The attributes of data elements and associated metadata can be specified and recorded as registry items in a metadata registry (MDR). The metadata registry is used to keep information about data elements and associated concepts, such as “data element concepts”, “conceptual domains” and “value domains” (see ISO/IEC 11179-31). Generically, these are all referred to as “metadata items”. Such metadata are necessary to clearly describe, record, analyse, classify and administer data.

ISO/IEC 11179 addresses the semantics of data, the representation of data and the registration of the descriptions of that data. It is through these descriptions that an accurate understanding of the semantics and a useful depiction of the data are found.

The purposes of the ISO/IEC 11179 series are to promote the following:

— standard description of data;

— common understanding of data across organizational elements and between organizations;

— re-use and standardization of data over time, space and applications;

— harmonization and standardization of data within an organization and across organizations;

— management of the components of descriptions of data;

— re-use of the components of descriptions of data.

Each part of ISO/IEC 11179 is devoted to addressing a different aspect of these needs, as described in ISO/IEC 11179-1:2023, Clause 7. This document specifies the information to be recorded in a metadata registry in the form of a conceptual data model. It also specifies common facilities for dealing with identification, designation, definition and registration of any type of registry item. Thus, this document applies to registries other than metadata registries. Other parts of ISO/IEC 11179 extend this model to support specific types of metadata items, such as: data elements, data element concepts, data set specifications, concept systems, etc. (See 1.2.)

NOTE ISO/IEC 11179-30[16] describes the basic attributes of registry items for purposes where a complete metadata registry is not appropriate.

This document is of interest to information developers, information managers, data administrators, standards developers, application developers, business modellers and others who are responsible for making data understandable and shareable. ISO/IEC 11179 has broad applicability across subject areas and information technologies.

ISO/IEC 11179 applies to activities including:

a) the definition, specification and registration of contents of metadata registries, including interchanging or referencing among various collections of data elements[17], including data sets[19] and models[21][29];

b) interchange or reference among various collections of metadata, including models[21][29];

c) the registration and management of semantic artifacts that are useful for data management, data administration and data analysis;

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d) the interrelation of concept systems with data held in relational databases, XML databases, knowledgebases, text, and possibly graph databases deriving from natural language text understanding systems;

e) the provision of services for semantic computing: Semantics Service Oriented Architecture, Semantic Grids, semantics-based workflows, Semantic Web, etc;

f) support for addressing semantic web considerations such as AAA (anyone can say anything about anything), non-unique names and open world assumption.

In Clauses 5 through 11 and Annexes B and C, this document uses:

— **bold** font to highlight terms which represent metadata objects specified by the metamodel;

— normal font for terms which represent concepts defined in Clause 3.

EXAMPLE **Concept** (6.4.2.2) is a class each instance of which models a concept.

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Information technology — Metadata registries (MDR) —

Part 3:
Metamodel for registry common facilities

1 Scope

1.1 Structure of a metadata registry

This document specifies the information to be recorded in a metadata registry in the form of a conceptual data model:

— Clause 5 specifies the approach used to model a metadata registry;

— Clause 6 specifies the Core Model of the registry, including basic types and classes to be reused in extending the model. The core model defines a generic "registry item", from which any type of item that needs to registered can be sub-classed;

— Clause 7 specifies the metamodel for Identification of registry items;

— Clause 8 specifies the metamodel for Designation and Definition of registry items;

— Clause 9 specifies the metamodel for Registration of registry items;

— Clause 10 specifies the metamodel for Classification of registry items;

— Clause 11 specifies the metamodel for Mapping among registry items.

1.2 Model extensions

Other parts of ISO/IEC 11179 extend the core model to support additional functionality, including the following:

— ISO/IEC 11179-31[17] provides a metamodel for data specification registration, including support for data elements, data element concepts, conceptual domains and value domains;

— ISO/IEC 11179-32[18] provides a metamodel for concept system registration , including support for concept systems and ontologies;

— ISO/IEC 11179-33[19] provides a metamodel for data set registration;

— ISO/IEC 11179-34[20] (under development) provides a metamodel for computable data registration;

— ISO/IEC 11179-35[21] provides a metamodel for model registration.

2 Normative references

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

ISO/IEC 11179-6:2023, *Information technology — Metadata registries (MDR) — Part 6: Registration*

ISO/IEC 11404:2007, *Information technology — General-Purpose Datatypes (GPD)*

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