
**Information technology — Metadata
registries (MDR) —**

**Part 3:
Registry metamodel and basic
attributes**

AMENDMENT 1
iTeh STANDARD PREVIEW
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Technologies de l'information — Registres de métadonnées (RM) —

Partie 3: Métamodèle de registre et attributs de base

ISO/IEC 11179-3:2013/Amd 1:2020

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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
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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*.

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Information technology — Metadata registries (MDR) —

Part 3: Registry metamodel and basic attributes

AMENDMENT 1

3.1, 3.2

Change all references to "*datatype* (3.1.8)" to "*datatype* (3.1.9)".

3.1.13

Change the reference in the source from "7.3.37" to "7.3.38".

3.2.9

Replace the definition with:

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attribute (3.1.4) of a *metadata item* (3.2.75) ~~commonly needed~~ in its specification

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3.2.50

Replace the definition with:

metadata item (3.2.75) which can have *designations* (3.2.51) and/or *definitions* (3.2.40)

3.2.75

In NOTE 1, replace 'Clauses 5 through 11' with 'Clauses 9 through 11'.

3.2.76

In the NOTE, replace 'Clauses 5 through 11' with 'Clauses 9 through 11'.

3.2.96

Replace the existing NOTE by the following:

Note 1 to entry: Permissible values may be specified either as part of a *value domain* (3.2.140), or only associated with a *value meaning* (3.2.141).

Note 2 to entry: Within a value domain, permissible values may either be enumerated or described.

Note 3 to entry: Explicit mapping of a single permissible value to a single value meaning is possible only when both the value meaning and permissible value are enumerated, e.g. for code sets. For described permissible values, the described meaning might be associated with a range of values, e.g. weight in kilograms.

3.2.105

Replace the definition with the following:

identified_item (3.2.64) that is recorded and managed in a *metadata registry* (3.2.78)

3.2.138

In NOTE 2, replace 'must' with 'shall'.

3.2

Add the following new terms and definitions:

3.2.143

conceptual domain definition

formal definition of a *defined conceptual domain* (3.2.144)

Note 1 to entry: The definition may reference externally enumerated value meanings.

3.2.144

defined conceptual domain

conceptual domain (3.2.21) that is specified by a formal definition

Note 1 to entry: The definition may reference externally enumerated value meanings.

3.2.145

defined value domain

value domain (3.2.140) that is specified by reference to an external specification

Note 1 to entry: The external specification should enumerate the permissible values.

3.3.24

Replace 'XTML' with 'XTM'.

Clauses 4 through 12

Replace all occurrences of 'must' in normative text with 'shall', except for:

- 7.3.2.7.2.4 where 'must' should simply be deleted;
- 9.1.2.5.3.1 where 'must' is correct;
- 11.1.1 replace 'must' with 'should';
- 11.4.2.3.2 where 'must' is correct;
- Annexes C, D and F, which are informative.

4.2.2

Replace the whole subclause with the following:

A strictly conforming implementation:

- a) shall support all mandatory, optional and conditional classes, attributes and associations;
- b) shall not use, test, access, or probe for any extension features nor extensions to classes, attributes and/or associations;
- c) shall not recognize, nor act on, nor allow the production of classes, attributes and/or associations that are dependent on any unspecified, undefined, or implementation-defined behaviour.

NOTE The use of extensions to the metamodel or the basic attributes can cause undefined behaviour.

4.3

Rename 4.3 to 'Conformance by feature'.

Append:

", or to specific features within these clauses"

at the end of the first sentence of 4.3.

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4.4.2

Add the following NOTE at the end of 4.4.2:

NOTE The additional provisions specified in the above profiles apply only to these profiles, and not to conformance by feature in 4.3.

5.4

Replace the sentence:

"Clauses 6 through 11 of this part of ISO/IEC 11179 specify the types of *metadata objects* that form the structure of a *metadata registry*."

With:

"Clauses 6 through 8 of this part of ISO/IEC 11179 specify common facilities that form the core of a *metadata registry* and which apply to potentially any type of registry content. Clauses 9 through 11 of this part of ISO/IEC 11179 specify the types of *metadata objects* that form the potential content of a *metadata registry*."

5.5.1, list item 2, NOTE

Replace the reference to ISO/IEC 19763-2 with ISO/IEC 19763-10.

Clause 6 (except 6.3.3.1 and 6.3.5.1, see below), and 7.3.2.1:

Change all references to "*datatype* (3.1.8)" to "*datatype* (3.1.9)".

ISO/IEC 11179-3:2013/Amd.1:2020(E)

6.3.3.1 and 6.3.5.1

Change all references to "composite *datatype* (3.1.8)" to "*composite datatype* (3.1.7)".

8.1.1, paragraph 1

Replace the second sentence with the following:

ISO/IEC 11179-6 further describes the registration of *Registered_Items* (8.1.2.1), *Administered_Items* (8.1.2.2) and *Attached_Items* (8.1.2.3).

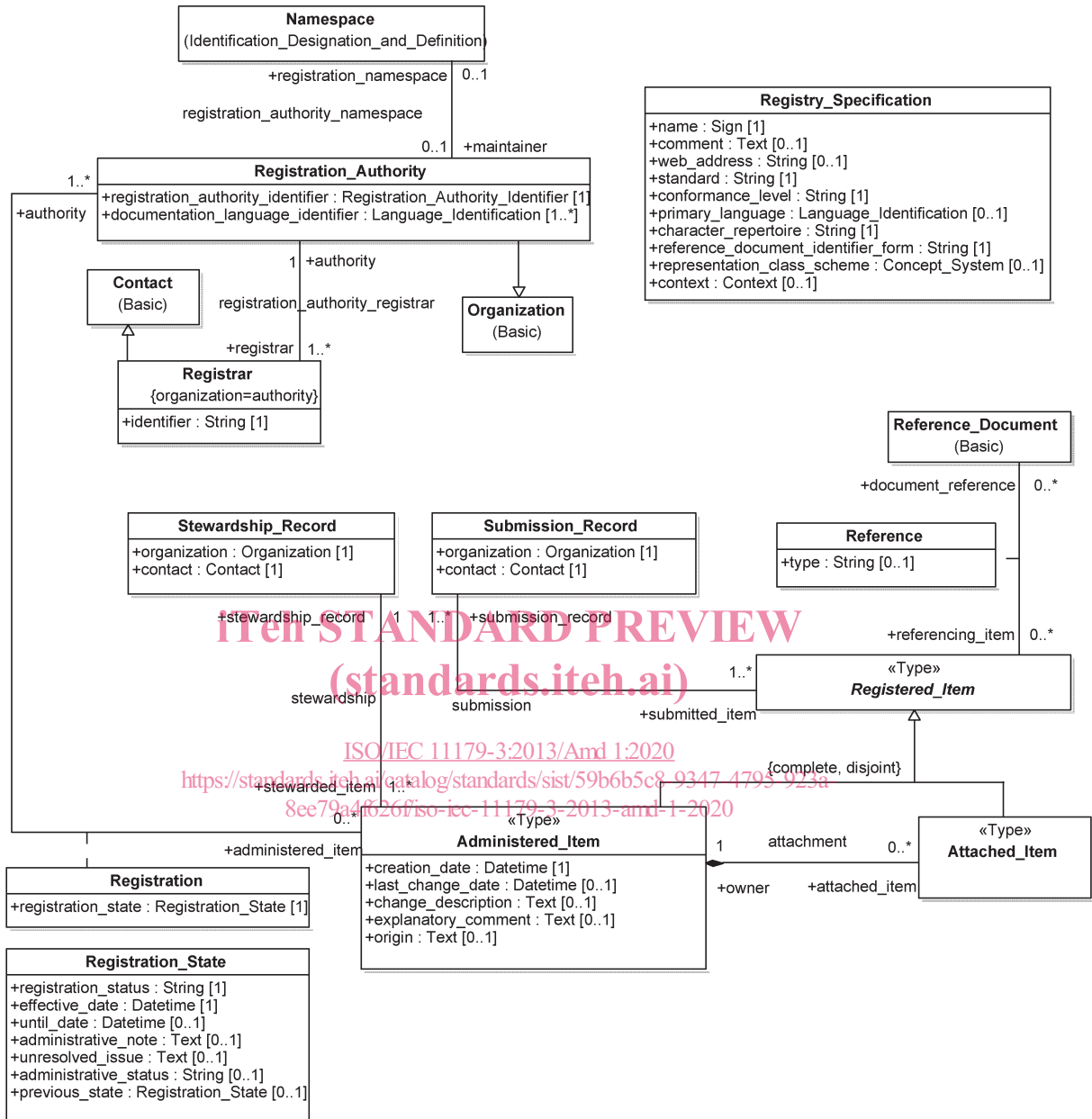
8.1.1, Figure 7

Replace Figure 7 with the following:

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8.1.2.9.1, list item 1, and Annex A, name (attribute of Registry_Specification)

Replace the reference to 8.1.2.9.2.1.1 with 8.1.2.9.2.1.

8.1.2.9.2

Change the subclause number of 8.1.2.9.2.1.1 to 8.1.2.9.2.1.

8.1.5.1.1, paragraph 1

Insert the following after the first sentence:

The association has two roles:

- authority (verb form: has_authority) which references a *Registration_Authority* class;
- administered_item (verb form: for_administered_item) which references an *Administered_Item* class.

An authority may have zero or more administered_items. An administered_item shall have one or more authorities.

8.1.5.2.1, paragraph 1

Insert the following after the first sentence:

The association has two roles:

- document_reference (verb form: has_document_reference) which references a *Reference_Document* class;
- referencing_item (verb form: is_referencing_item) which references a *Registered_Item* class.

A document_reference may have zero or more referencing_items. A referencing_item may have zero or more document_references.

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11.2.2.3.2, paragraph 1

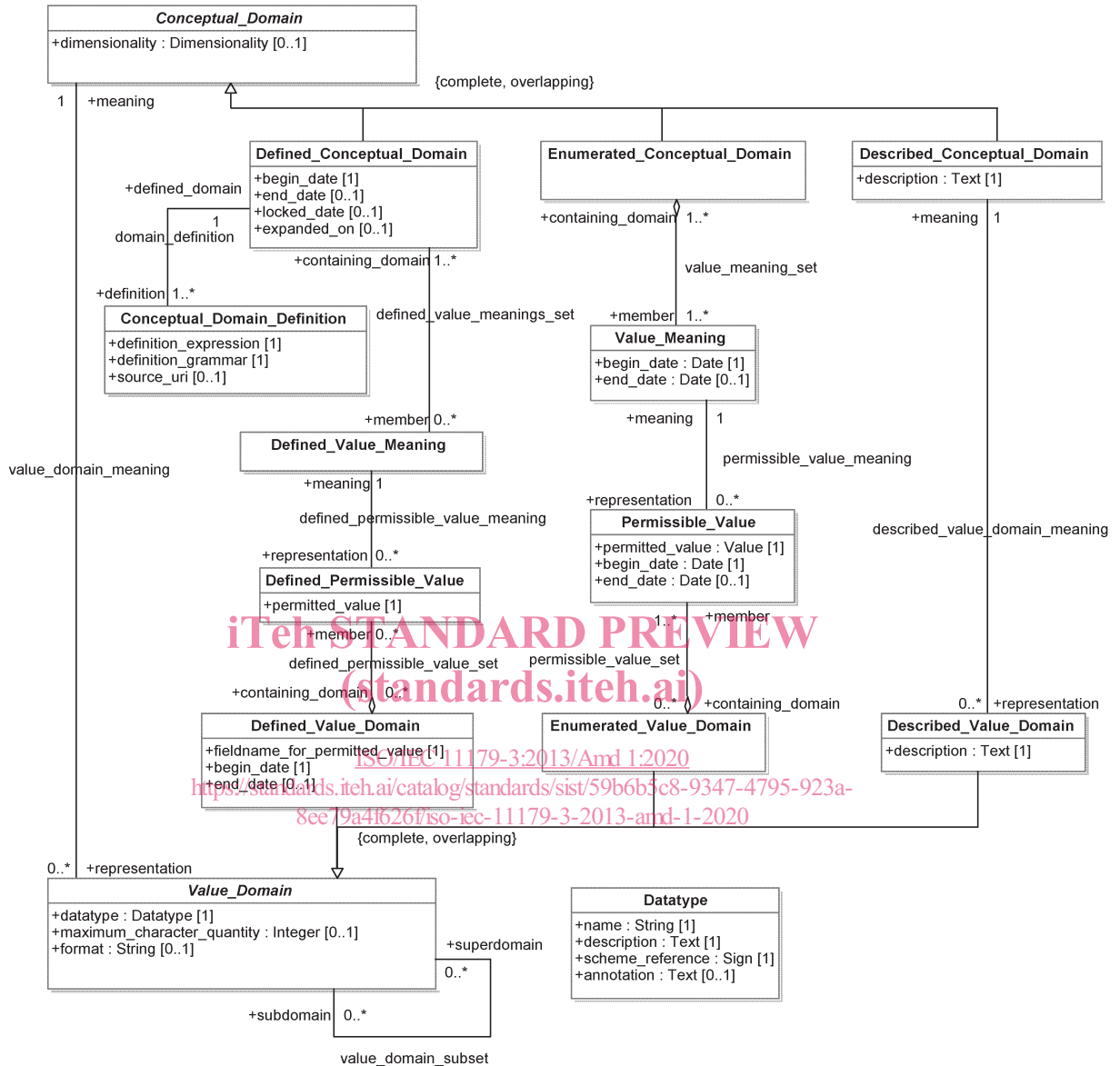
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In the last sentence, replace "in the form of" with "by".

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11.3.1, Figure 13

Replace Figure 13 with the following:



11.3.2.5.2.3

Designate the existing NOTE as NOTE 1, and add the following NOTE:

NOTE 2 *maximum_character_quantity* is intended to be specified primarily for described value domains. If specified for enumerated_value_domains, care should be taken to ensure the specified value is consistent with the enumerated permissible values.