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Title: Draft BS ISO/IEC 11179-3 :2023/Amd 1 Information technology — Metadata registries (MDR). Part 3: Metamodel for registry common facilities — Amendment 1: Enhancements to Item Mapping.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT Amendment

ISO/IEC 11179-3:2023/ DAM 1

Information technology — Metadata registries (MDR) —

Part 3: Metamodel for registry common facilities

AMENDMENT 1: Enhancements to Item Mapping

ICS: 35.040.50

ISO/IEC JTC 1/SC 32

Secretariat: **ANSI**

Voting begins on:
2025-07-28

Voting terminates on:
2025-10-20

This document is circulated as received from the committee secretariat.

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31 Foreword

32 ISO (the International Organization for Standardization) is a worldwide federation of national standards
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34 through ISO technical committees. Each member body interested in a subject for which a technical
35 committee has been established has the right to be represented on that committee. International
36 organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO
37 collaborates closely with the International Electrotechnical Commission (IEC) on all matters of
38 electrotechnical standardization.

39 The procedures used to develop this document and those intended for its further maintenance are
40 described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the
41 different types of ISO documents should be noted. This document was drafted in accordance with the
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46 the ISO list of patent declarations received (see www.iso.org/patents).

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48 constitute an endorsement.

49 For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and
50 expressions related to conformity assessment, as well as information about ISO's adherence to the World
51 Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see
52 www.iso.org/iso/foreword.html.

53 This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information Technology*,
54 Subcommittee SC 32, *Data Management and Interchange*.

55 This Amendment 1 provides minor enhancements to the registry specification in Clause 9, major
56 enhancements to the Item Mapping facility in Clause 11, and adds a new Rules facility as Clause 12 of
57 ISO/IEC 11179-3:2023.

58 The main changes are as follows:

- 59 1. In Clause 3:
60 — Update the definitions of “data” and “metadata”.
- 61 2. In Clause 6:
62 — Add a “BLOB” datatype, and add an attribute that uses it to the Reference_Document class.
- 63 3. In Clause 9:
64 — Allow conformance to be claimed to multiple standards, by breaking out the attributes related to
65 conformance into a separate dependent table;
- 66 4. In Clause 11:
67 — Allow the transformation rule associated with an Item_Mapping to be specified in multiple ways,
68 including a language-independent data structure;
69 — Allow provenance information about an Item_Mapping and or an Item_Mapping_Transformation to
70 be recorded;
71 — Allow information about platforms on which a transformation rule has been implemented to be
72 recorded;
73 — Allow whether or not an Item_Mapping instance is bidirectional to be specified.

5. Add a new Clause 12 which provides a facility for specifying Rules, that is used by the Item_Mapping facility, but can be used elsewhere as well (e.g. ISO/IEC 19763-13:___¹).

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

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.

¹ Under preparation. Stage at the time of publication: ISO/IEC DIS 19763-13.

**Information technology — Metadata registries (MDR) — Part 3:
Metamodel for registry common facilities — Amendment 1:
Enhancements to Item Mapping**

Amendment 202n-3-01:

Replace term entry 3.2.29 with the following:

3.2.29
datum (singular)
datums (countable plural)
data (uncountable plural)
designation (3.2.11) whose *concept* (3.2.7) is a value

Amendment 202n-3-02:

Replace term entry 3.2.30 with the following:

3.2.30
metadata
descriptive *data* (3.2.29) about an *object(s)* (3.2.1)
Note 1 to entry: In the ISO/IEC 11179 and ISO/IEC 19763 series of standards, the objects being described are instances of the subclasses of **Item** (6.4.2.1), e.g. concepts, data elements, services etc.

Amendment 202n-6-01:

Replace *Figure 2* in 6.2.1 with the following:

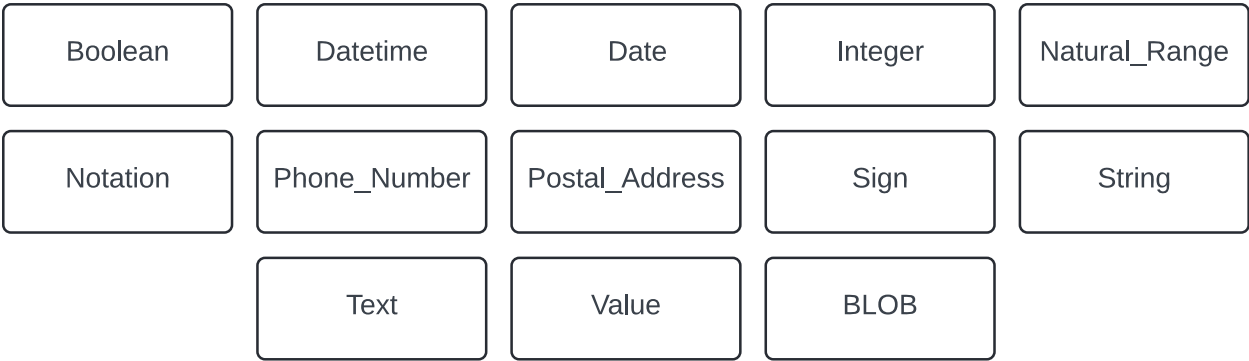


Figure 2: Predefined types metamodel region

Amendment 202n-6-02:

Insert the following subclause after 6.2.13:

6.2.14 BLOB

BLOB is a datatype which represents a binary large object string datatype.
EXAMPLE: A PDF document to be attached to an instance of the **Reference_Document** (6.3.8) class.

Amendment 202n-6-03:

Replace *Figure 3* in 6.3.1 with the following:

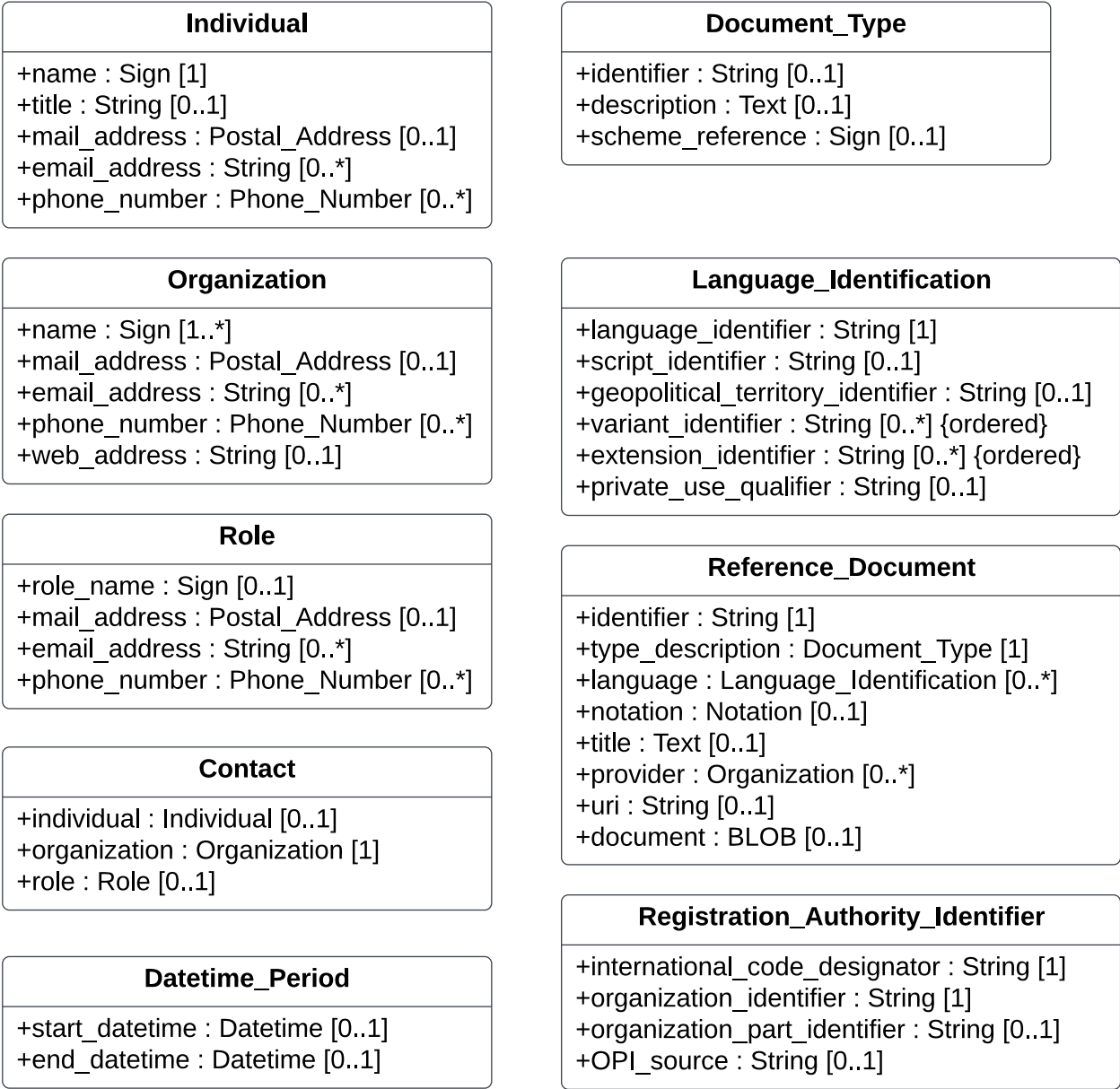


Figure 3 – Basic classes metamodel region

Amendment 202n-6-04:

Append the following row to table 7 in 6.3.8.2:

document	BLOB	0..1	The reference document itself.
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Amendment 202n-9-01:

Replace Figure 7 in 9.1 with the following:

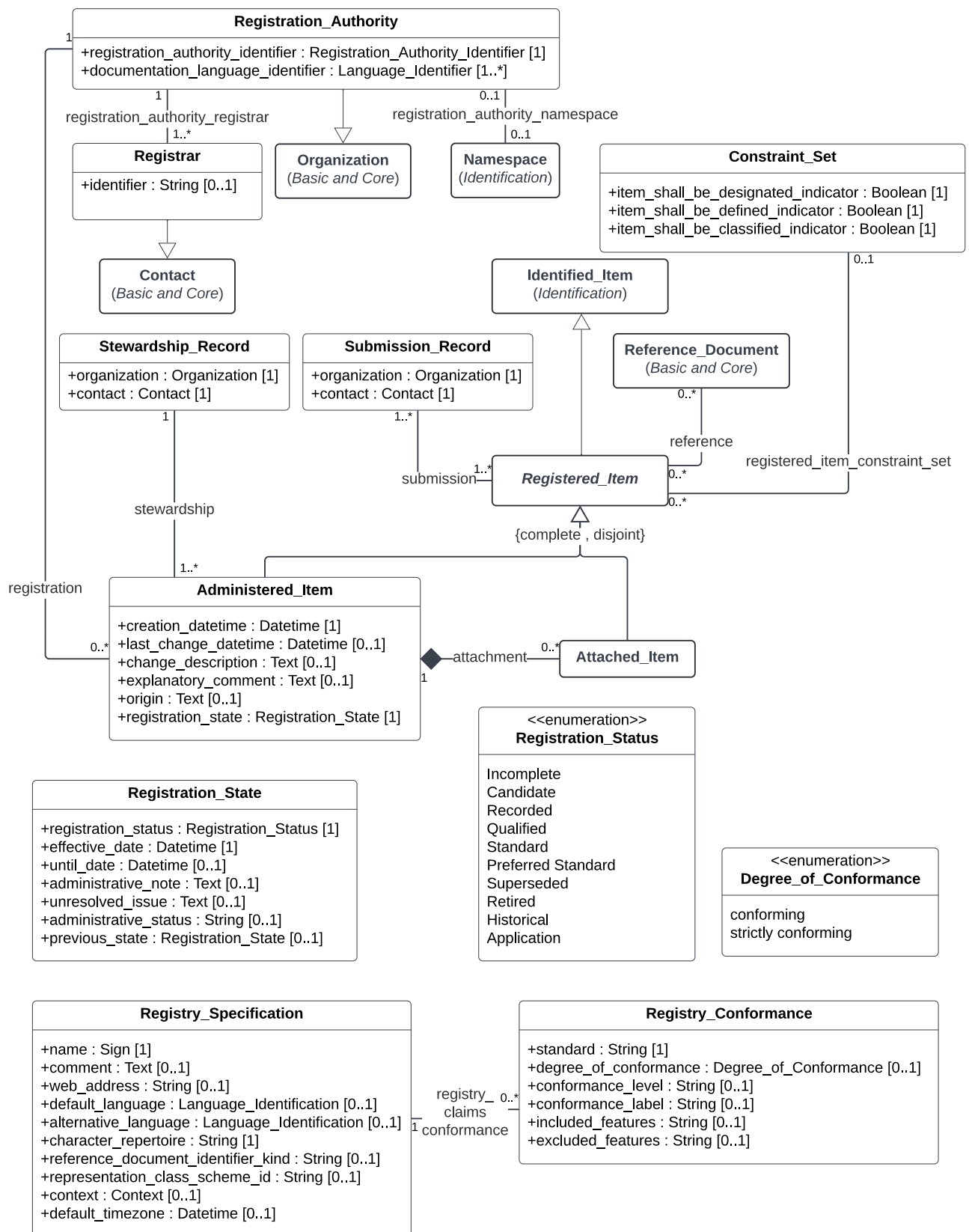


Figure 7 – Registration metamodel region

Amendment 202n-9-02:

Replace the text in 9.4.10.2 with the following:

See **registry_claims_conformance** association (9.5.9).

Amendment 202n-9-03:

In 9.4.10.3, replace Table 28 with the following:

Table 28 — Attributes of Registry_Specification class

Attribute name	Multiplicity	Datatype	Description
name	1	Sign (6.2.10)	Definition: name by which the registry is commonly known Example: Australian Institute of Health and Welfare (AIHW) Metadata Online Registry (METeOR) ^[39]
comment	0..1	Text (6.2.12)	Definition: any comment that should be noted about the registry
web_address	0..1	String (6.2.11)	Definition: The World Wide Web uniform resource locator (URL) for the registry Example: https://meteor.aihw.gov.au/
default_language	0..1	Language_Identification (6.3.7)	Definition: The language that is used as the default in the registry for designations, definitions and reference documents. Examples: eng-840, en-US
alternative_language	0..*	Language_Identification (6.3.7)	Definition: Any other language that is used in the registry Examples: eng-840, en-US
character_repertoire	1	String (6.2.11)	Definition: The character repertoire that is used by the registry for internal operation Example: ISO/IEC 646 ^[3] or ISO/IEC 10646 ^[10]
reference_document_identifier_kind	0..*	String (6.2.11)	Definition: Specification of the kind of identifier used for identifying reference documents in the registry Examples: Some registries use URIs. Other registries use an external document management system which provides unstructured, opaque identifiers. Yet other

Attribute name	Multiplicity	Datatype	Description
			registries define a structured identifier form which embeds an identifier type within each identifier in the registry. This attribute specifies the form of identifiers used for reference documents in this particular registry.
representation_class_scheme_id	0..1	String (6.2.11)	Definition: identifier of the classification scheme used by the registry to capture representation classes Changes from previous editions: Edition 2 (ISO/IEC 11179-3:2003^[12]) had a separate structure to record “representation classes”. In edition 3 (ISO/IEC 11179-3:2013^[13]) and edition 4 (this document), these are considered to be just another classification scheme, which in edition 3 was considered a kind of concept system. This document has restored a Classification_Scheme class independent of the Concept_System class specified in ISO/IEC 11179-32. This attribute allows the registration authority to specify which classification scheme is used for this purpose. This document uses just the identifier of the classification scheme for this attribute. Edition 3 embedded a whole concept system.
context	0..1	Context (6.4.2.3)	Definition: context which represents the registry itself It is sometimes useful to reference a default context, rather than create a new one. This attribute is one possible choice for such a default.
default_time_zone	0..1	Datetime (6.2.3) (only hours and minutes are used)	Definition: time zone to be assumed for any datetime instance that does not

Attribute name	Multiplicity	Datatype	Description
			explicitly specify its own time zone. Specified as the number of hours offset from UTC, with no separator between hours and minutes, with a leading zero if the hour is less than 9, and a leading minus sign if applicable. Example: For Newfoundland Daylight Time: -0230

End of Amendment 202n-9-03:

Amendment 202n-9-04:

Add the following new subclause:

9.4.11 Registry_Conformance class

9.4.11.1 Description of Registry_Conformance

Registry_Conformance specifies the standard(s) to which the registry claims conformance along with the degree of conformance, level of conformance and other details.

9.4.11.2 Associations of Registry_Conformance

See **registry_claims_conformance** association (9.5.9).

9.4.11.3 Attributes of Registry_Conformance

See **Table 29**.

Table 29 — Attributes of Registry_Conformance class

Attribute name	Multiplicity	Datatype	Description
standard	1	String (6.2.11)	Definition: Identifier for the standard to which this registry claims conformance. Example: ISO/IEC 11179-3:2023
degree_of_conformance	0..1	Degree_of_Conformance (9.6.1)	Definition: 'conforming' or 'strictly conforming'. See 4.2. Condition: applies only if the specified standard provides these options..
conformance_level	0..1	String (6.2.11)	Definition: The conformance level of the registry as described in the standard Example: Conformance Level 2 (where standard is

Attribute name	Multiplicity	Datatype	Description
			specified as ISO/IEC 11179-3:2003). Condition: applies only if the specified standard uses conformance levels. Note: This document specifies conformance labels instead of conformance levels.
conformance_label	0..1	String (6.2.11)	Definition: The conformance label of the registry as described in the standard Example: ISO/IEC 11179-3:2023 Basic Registry (see 4.4.3). Condition: applies only if the specified standard uses conformance labels.
included_features	0..1	String (6.2.11)	Definition: Freeform specification of the features of the standard that this implementation supports. Condition: applies only if the specified standard allows conformance by feature (see 4.3).
excluded_features	0..1	String (6.2.11)	Definition: Freeform specification of the features of the standard that this implementation does not support. Condition: applies only if the specified standard allows conformance by feature (see 4.3).

143

144 *Renumber all subsequent tables and the references to them.*145 **End of Amendment 202n-9-04:**

146

147 **Amendment 202n-9-05:**148 *Add the following new subclause:*149 **9.5.9 registry_claims_conformance association**

150 The **registry_claims_conformance** association records the binding of exactly one instance of the
 151 **Registry_Specification** (9.4.10) class with zero, one or more instances of the **Registry_Conformance**
 152 class (9.4.11) which specify the standard(s) to which the registry claims conformance.