

ISO/IEC JTC 1/SC 32 N 2549

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REPLACES: —

ISO/IEC JTC 1/SC 32

Data Management and Interchange

Secretariat: United States of America (ANSI)
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DOCUMENT TYPE	Disposition of Comments
TITLE	Disposition of comments on N2455 CD3 11179-1 Information Technology -- Metadata Registries (MDR) - Part 1: Framework Ed 3
SOURCE	WG2 - Dan Gillman - project editor
PROJECT NUMBER	1.32.15.03.01.00
STATUS	Disposition of the comments in 32N2482 Summary of Voting on 32N2455 CD3 11179-1 ed 3 ballot text. This accompanies 32N2548 DIS 11179-1 text to be sent to ITTF for DIS ballot.
REFERENCES	
ACTION ID.	FYI
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DUE DATE	--
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MB/N C ¹	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment ²	Comments	Proposed change	Observations of the secretariat
CA02	318	3.2.11	definition	Ed	The xref to the definition of concept is missing	Insert xref to 3.2.3	Accepted
CA03	323	3.2.12	definition	Ed	The xref to the definition of concept is missing	Insert xref to 3.2.3	Accepted
CA04	349	3.2.18	definition	Ed	'metamodel' is a defined term.	Make the term bold and add a xref to 3.2.20	Accepted
CA05	359	3.2.21	definition	Ed	The xref to the definition of object is missing	Insert xref to 3.2.22	Accepted
CA06	406	3.3.6	definition	Ed	The defined term 'concept' is not shown in bold	Make the term bold.	Accepted, and corrected xref for value meaning
CA07	530	3.3.29	definition	Ed	'data' is a defined term	Make the term bold and add a xref to 3.2.6	Accepted
CA08	546	3.3.32	definition	Ed	The xrefs to the definitions of identifier and administered item are missing	Add xrefs to 3.1.3 and 3.3.2 respectively.	Accepted
CA09	553	3.4.1	definition	Ed	administered item is not capitalized in 3.3.2, so it should not be capitalized here.	Remove the capitals.	Accepted
CA10	563	3.5.1	definition	Ed	The xref to the definition of metadata item is missing	Insert xref to 3.2.17	Accepted
CA11	568	3.5.2	definition	Ed	'unit of measure' is a defined term	Make the term bold and add a xref to 3.3.28	Accepted
CA12	581	4	Para 2	Ed	All but one of the terms in bold in this paragraph are defined in clause 3. The exception is inessential . This term does not need defining, so we should change or remove the emphasis.	Either replace the bold font by <i>italics</i> or simply remove it.	Accepted. The idea needs to be preserved to make sense of the subsequent sentence. So, de-emphasize the word.
CA13	613	5.2.1	Para 1	Ed	'a MDR' should be 'an MDR'.	Make the correction.	Accepted
CA14	669	5.3	Last line of 2 nd para on p. 13.	Ed	There is spurious text '555' at the end of the paragraph.	Delete the '555'.	Accepted
CA15	696	5.3	Line preceding Figure 1 caption	Ed	The Heading 2 style is used on the blank line preceding the Figure 1 caption, resulting in a spurious blank heading in the Navigation pane in MS Word.	Change the style to 'Normal'.	Accepted
CA16	711 & 796	5.5	Figure 2	Ed	Figure 2 is referenced on p.14, but does not appear until p.17.	Move Figure 2 to as soon after the first reference as it will fit, currently p.15.	Accepted

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CA17	750	5.5	3 rd para from bottom of p.15	Ed	When transforming quantities from one unit of measure to another, values will differ, so equivalence is a better concept to use than 'sameness'.	Replace 'same' by 'equivalent'.	Modified. This paragraph describes <i>dimensionality</i> . That requires a quantity <i>preserving</i> map. Therefore, <i>equal</i> is appropriate, as in equal quantities.
CA18	848-850	6.1	2 nd para on p.19	Te	The sentence " Registering the metadata item (i.e., entering the metadata into the MDR) makes it a registry item." is incorrect. The next sentence "If the registry item is also subject to administration (as in the case of a data element), it is called an administered item." is not completely true. Registration involves more than just entering the metadata into the MDR. It also requires stewardship to be specified. Part 3 differentiates a 'registry item' (just recorded), an 'identified item' (recorded and identified), a registered item (recorded, identified and registered). Also, a registered item may be either an administered item or an attached item, though we don't need that level of detail here. We just need to ensure that what is stated here does not conflict with what is specified in part 3. ('Designatable item' and 'classifiable Item' are orthogonal concepts to those above.)	Replace the two sentences with: Recording the metadata item in an MDR makes it a registry item. Depending on requirements, the registry item may further be identified, named, classified, registered and/or administered. See ISO/IEC 11179-3:2013 clause 5.5 for details.	Accepted
CA19	870-871	6.2	2 nd list item on p.20.	Te	While several data elements may share the same representation, sharing a value domain is only possible if the associated conceptual domain is also the same, which limits the applicability.	Clarify that a value domain is tied to a single conceptual domain, so it is not enough that the values of two data elements be the same, their meaning must be the same as well.	Not Accepted
CA20	879-881	6.2	7 th list item on p.20, and following paragraph.	Te	The ability to relate one DEC to many CDs was introduced in ISO/IEC 11179-3:2013 as a result of Issue 437. This was requested by NCI as follow: "In order to be able to use the MDR to record all enterprise semantic metadata, a DEC needs to be able to be associated with 0-* Conceptual Domains. This is so that organizations who have entities using different	WG2 should consider how the change introduced in ISO/IEC 11179-3:2013 can be reconciled with the stated rule (which was true in Edition 2). If the two can be reconciled, some additional clarification should be provided. If they cannot be reconciled, WG2 should consider whether the relationship from DEC to CD should be restored to the way it was in Edition 2, by raising a defect	Modified. Whether or not a DEC in an MDR may be associated with many CDs does not change the need that for a given DE, the path through DEC to CD and the path through VD to CD must land on the same

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					code sets for the same DEC to be able to map their Data Elements to the same DEC, even though different CD/VDs were used." This change appears to invalidate the rule stated in the next sentence: "There is one important rule the Figure 4 does not depict: Given a data element, the conceptual domain related to its data element concept shall be the conceptual domain of its value domain.", since the DEC may be related to multiple CDs.	report against ISO/IEC 11179-3:2013.	CD. From the perspective of a DE, there can be only one CD. The MDR metamodel does not convey this since it is about reuse and sharing. Change the statement to say, "Given a data element, one of the conceptual domains related to its data element concept shall be the conceptual domain of its value domain."
CA21	916,917	6.3	Next to last paragraph	Te	Re " Each administered item within an MDR is assigned a unique identifier." ISO/IEC 11179-3:2013 allows multiple identifiers.	Replace "a unique identifier" by "one or more unique identifiers".	Accepted
CA22	930-943	7.1.2	Description of Part 2	Te	WG2 needs to decide what to do about part 2. ISO/IEC 11179-2:2005 is inconsistent with ISO/IEC 11179-3:2013, so part 2 either needs to be updated or withdrawn. Stabilizing it is not an option if we want a consistent family of parts. Note that ISO/IEC 11179-2:2005 added no value since it simply reiterated parts of ISO/IEC 11179-3:2003. To have value, a third edition would need to expand on the information in part 3. There is no active project to update part 2.	A decision needs to be made before part 1 goes to DIS, so that this clause can be correctly aligned, or removed, as appropriate.	Keep the sub-clause. WG2 agreed to write a new edition of Part 2.
CA23	1363	A.5.2	Last para	Ed	ISO/IEC TR 20943-5 is mentioned here, but is included in the normative references only through reference to the family (20943 (all parts)). Therefore, the title of this part is not available anywhere in the document.	Include the full title when referencing the document.	Annex removed – see JP-06 and JP-07.
CA24		All		Ge	If any further problems are discovered before or	To be determined at the CRM as required.	Accepted

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					during the Comment Resolution Meeting, and a consensus can be reached on a solution, then they should be corrected.		
					END OF COMMENTS		

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JP 01	650	5.3	Fundamental model of data elements	Te	<p>“For the purposes of ISO/IEC 11179, a data element is composed of two parts:”</p> <p>Data element is <u>not composition of</u> object and property.</p> <p>It is misleading for readers of this document at first time.</p>	<p>A data element concept <u>definition</u> could be composed of object definition and property definition in the metamodel.</p> <p>Or,</p> <p>An instance of data element is consist of value that specified VD, CD, and DEC.</p>	Modified. Substitute “comprised” for “composed” in lines 650 and 653.
JP 02	694	5.3	Figure 1	Te	<p>Figure is misleading for inviting so as to a data element <u>includes</u> data element concept and value domain.</p> <p>It is <u>not inclusion</u> of</p>	At the Santa Fe meeting, we had discussed and sent an alternative figure to the editor.	<p>Accept –</p> <p>The editor and Keith Gordon agreed the figure from Santa Fe was not sufficient, and that UML was too formal. The graphical figure 1 in CD3 conveys the ideas more clearly and better than the one in CD2.</p> <p>Changed caption to “Fundamental, informal, model of a data element”. The UML in Part 3 does not easily convey how to understand data elements. This model is intended to fill that gap through a more human understanding. It is not a formal model; it never has been; nor is it ever intended to be.</p> <p>Added Footnote 2. Specifically describes how to interpret diagram. Containment of regions means the container is comprised of the contained.</p>

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JP 03	667	5.3		Ed	Examples are concepts corresponding to <u>single objects</u> , such as "the collection of all persons" or "the collection of service sector establishments".	Object should be <u>object class</u>	Modified based on discussion at WG2 The wording is correct. An individual concept has one object in its extension. Agreed to change the wording of the sentence to clarify. "An example is a concept corresponding to a single object,..."
JP 04	669	5.3		Ed	"555" ?	Delete this	Accepted
JP 05	699 ~ 707	5.4	Data elements in data management and interchange	Ed	Data elements appear in 2 basic situations: in databases and in transactions.	In this context, "Messages" should be preferable than "transactions" Data elements could consist messages that are exchanged between system or human, not only between databases.	Accepted
JP 06	1279	A4		Te	"Therefore, the statement is metadata." is too much. It is true that a metadata can be described by a sentence or sentences. However, not all sentences would be prepared for representing a metadata. In this example, the sentence is describing still a story and neither data nor metadata.	Change the explanation like; "Sentential expression of data could be helpful for defining metadata"	Remove Annex A
JP 07	1262	A.5	Metadata	Te	It is not completed. Only object perspective was discussed. It should be clarified that how to define DEC after discussing the object perspectives as	Provide DEC and VD examples	Remove Annex A. There is a new work item 19583 Metadata Concepts and Usage where this content will be reconsidered.

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					an example.		
					End of comments.		

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1	2	(3)	4	5	(6)	(7)
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GB 01	General		ge	There are many references to Part 2 (11179-2). Since Ed 3 of 11179-3 now includes concept systems and classification there is a question over the future of Part 2.	Amend the text accordingly when the future of Part 2 has been determined by WG2.	See CA-22
GB 02	3.2.20	Line 356 (pdf)	ed	“ data model (3.2.7) that specifies one or more other data models” – but in 19763 metamodels are used to describe ontologies, process models, service models, etc, as well as information models.	Amend to read: data model (3.2.7) that specifies one or more other models, such as data models, process models, ontologies, etc	Accepted
GB 03	5.3	Line 669 (pdf)	ed	There is a spurious “555” at the end of the line.	Remove	Accepted
GB 04	5.3	Figure 1 – Line 694 (pdf)	ed	Since this figure is referenced at line 648 it would seem more appropriate for it to be earlier within this sub-clause.	Move the figure forward.	Accepted
GB 05	5.4	Lines 703-704 (pdf)	ed	“Within the organization, databases are composed of records, segments, tuples, etc., which are composed of data elements.” Whilst this is technically correct most people’s knowledge of databases is of those based on SQL, where the equivalent construct is a row within a table.	Amend to read: Within the organization, databases are composed of records, segments, tuples, rows within tables etc., which are composed of data elements.	Accepted, and see JP-05.
GB 06	5.5	Line 747 (pdf)	ed	Lire are no longer used – they have been replaced by the Euro.	Delete “Lire”, insert “Euro”.	Accepted
GB 07	5.5	Line 752 (pdf)	ed	Spelling.	Delete “Meters”, insert “Metres”.	Not Accepted. English, French, and Russian are official ISO languages. The ISO template accepts both the US and British forms of English. As the editor is American and uses a US English default editor, the American spelling will be used, as it is used throughout this document.

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NOTE Columns 1, 2, 4, 5 are compulsory.

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GB 08	Annex A	Line 1067 et seq	ed	Inconsistency – in the body of the draft “metamodel” is used but in this annex it is “meta-model”	Change all instances of “Meta-Model” and “meta-model” to “Metamodel” and “metamodel” respectively.	Remove Annex A. See JP-06 and JP-07.

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