ISO/IEC JTC 1/SC 32 N **2049a**

ISO/IEC JTC 1/SC 32

Data Management and Interchange

Secretariat: United States of America (ANSI)

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DOCUMENT TYPE	Summary of Voting/Table of Replies
TITLE	ISO/IEC FCD 11179-3 Information technology - Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes 3rd Edition
SOURCE	SC32 Secretariat
PROJECT NUMBER	1.32.15.03.03.00
STATUS	WG2 is requested to resolve the comments. The document failed to obtain substantial support.
REFERENCES	
ACTION ID.	ACT
REQUESTED ACTION	
DUE DATE	
Number of Pages	50
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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ISO/IEC JTC 1/SC 32 **N2049a**

Summary of Voting on Document SC 32 N 1983

Title: ISO/IEC FCD 11179-3 Information technology - Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes 3rd Edition

Project: 1.32.15.03.00

"P" Member	Approval	Approval with Comments	Disapproval with Comments	Abstention with Comments
Canada			1	
China				
Czech Republic	1			
Egypt				
Finland				1
Germany				1
India				
Japan			1	
Korea, Republic of	1			
Sweden				
Russian Federation				
Portugal				
United Kingdom	1			
United States			1	
Total "P"	3	0	3	2
"O" Member				
Austria				
Belgium				
France				
Ghana				
Hungary				
Indonesia				
Italy				
Kazakhstan				
Netherlands, The				
Norway				
Romania				
Switzerland				
Total "O"				

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COMMENTS:

Canada

NO. See comments below:

Finland

ABSTAIN. No information available.

Germany

ABSTAIN. Lack of expertise and interest.

Japan

NO. See comments below:

United States

NO. See comments below:

ISO

See comments below:

Date: 2010-07-27	Document:

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CA-001	0-all	all	Ge	The changes between 2nd CD and FCD have been extensive, and really justified a 3rd CD. We are submitting substantial technical comments with this FCD ballot, which if accepted will require further substantial changes. This document is not ready to go to FDIS. We believe there are probably further technical problems that we have not had time to discover.	Canada recommend a 2nd FCD ballot after all comments have been resolved.	
CA-002	0-all	all	Te	The open issues for this project in bugzilla need to be reviewed to see which should be addressed in the edition. Defects should be addressed. Enhancements may have to wait.	Needs discussion at BRM.	
CA-003	0-all	all	Te	There were unresolved ballot comments from the CD2 ballot will still need to be addressed. These are listed in WG2 N1402.	Consider the unresolved CD2 comments as part of the FCD ballot comments.	
CA-004	0-general	various	Te	The use of packages and the lack of a combining feature make it impossible to know how the packages features are combined. This was straightforward in Edition 2, but there is no guidance in Edition 3 on how to put all this together.	Provide guidance on how to provide a whole metadata set.	
CA-005	0-general	various	Te	In addition to the metamodel specified in UML the document also implicitly specifies a lexical model through its definitions. We are concerned that the lexical model may not always be consistent with the UML model.	We have included some comments already where we have found inconsistencies (e.g. definition of data element concept, and naming of value meaning). We continue to review and may bring additional issues to the BRM under this comment.	
CA-006	0-general	various	Te	Some the definitions appear to be circular, which makes them not very useful. Example 1: datatype is defined as: set of distinct values...; while value is defined as: any instance of any *datatype*. Example 2: Value Domain is defined as: set of **permissible value**s	Definitions need to be improved to remove circularity.	

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2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

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

ISO electronic balloting commenting template/version 2001-10

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				Permissible value is defined as: **designation** of a **value meaning** within a specific **value domain**		
CA-007	0-general	various	Te	The naming of attributes in the model is inconsistent. In some classes, such as Value_Domain, the attributes are prefixed with the class name. In others, such as Slot, they are not.	WG2 should agree on an approach to attribute naming and use it consistently throughout the model. Our preference is that an attribute name be meaningful on its own, without being prefixed by the class name. We believe this is more in keeping with the naming conventions specified for data elements in 11179-5.	
CA-008	0-general	various	Ed	The resolution of CD2 ballot comment US 66 called for cross-references to clause 3 when the term is used in clauses 6 through 11. This has been done in part but incompletely.	Check for missing cross-references and add as required. This is especially true of clause 10 and 11.	
CA-009	0-general	figures	Ed	The final document should not contain the diagram name and modification date that is currently included in each figure.	Remove the diagram name and modification date from within the figure.	
CA-010	0-general	figures	Ed	All figures should be updated to keep them consistent with changes made to the text.	Make the necessary changes.	
CA-011	0-Introduction	para 3	Ed	The reference to clause 10 should be clause 11.	Change '10' to '11'.	
CA-012	0-Introduction	para 5	Ed	The reference to clause 11 should be clause 12.	Change '11' to '12'.	
CA-013	0-Introduction	para 6	Ed	The roles listed are all very data-oriented. We should include some broader role types.	Add: application developers, business modellers.	
CA-014	01.2-Scope	para 1	Ed	It is unnecessary to refer to 'this part of ISO/IEC 11179'. The reference to clause 10 should be clause 11.	Reword the first paragraph as: "Clauses 5 through 11 specify the structure of a metadata registry in the form of a conceptual data model."	
CA-015	01.3-Scope	All	Ed	It is unnecessary to refer to 'this part of ISO/IEC 11179'.	Reword the paragraph as: "Clause 12 specifies basic attributes which are	

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					required to describe metadata items, and which might be used in situations where a complete *Metadata Registry* is not appropriate (e.g. in the specification of other International Standards)."	
CA-016	02	19505-2	Te	This FCD references ISO/IEC DIS 19505-2, but the ISO catalogue lists the document as FCD. The current standard cannot go to FDIS referencing an FCD.	Options include: 1) If the current document goes to a 2nd FCD: a) correct the reference to be FCD 19505-2, and defer any further action to the next ballot; b) revert to UML 1.4, which will require changes to the model. 2) If the current document is to progress directly to FDIS, we have the following choices: a) change the reference to the OMG version of UML 2.1.2; b) defer publication until 19505 reaches FDIS.	
CA-017	03	Various	Ed	CD2 ballot comments created separate definitions for concepts in clause 3, and for metadata objects which model those concepts in clauses 6 thru 11. Other comments added references from Clauses 6 thru 11 to the concepts in clause 3, but very few references exist in the reverse direction.	For concepts which are included in the reference model, add references from the concept definitions in clause 3 to the corresponding metadata objects in clauses 6 thru 11.	
CA-018	03.1	Note	Ed	The following statement in the Note is not currently true. "Where a definition has both NOTEs and a reference, NOTEs that precede the reference come from the referenced source; NOTEs that follow the reference are added by this standard." We have attempted to identify definitions where this is not true. All referenced definitions should be checked, and corrections made as necessary.	Ensure that Notes are correctly positioned for all referenced definitions in clause 3.	

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CA-019	03.2	para 1	Ed	'metamodel constructs' is a defined term, so should be shown in bold, but needs to be explained in this clause as well.	Reword the paragraph as: "This subclause defines the **metamodel constructs** (3.3.78 - units of notation for modelling) used in specifying the registry metamodel in Clauses 6 through 11."	
CA-020	03.2	new	Te	Add definitions for 'abstract class' and 'concrete class'.	Take definitions from 19505.	
CA-021	03.2.5	example	Te	Previous ballot comments have called for an example to be added. This has not yet been done.	E.g. reference Registration.registration_state in Figure 7-1	
CA-022	03.2.6	example	Te	Previous ballot comments have called for an example to be added. This has not yet been done.	E.g. reference Registration_Record as used by Registration.registration_state in Figure 7-1	
CA-023	03.2.8	definition	Ed	Having already used the terms 'general class' and 'specific class' in the first line, it is unnecessary to refer to the general class as the 'first class' in the second line.	Change 'first class' to 'general class'.	
CA-024	03.2.11	note	Ed	The period after 'generalization' belongs at the end of the sentence. The Note should be moved after the reference because it does not come from the reference.	Make the corrections.	
CA-025	03.2.12	definition	Ed	Having already used the terms 'general class' and 'specific class' in the first line, it is unnecessary to refer to the general class as the 'first class' in the second line.	Change 'first class' to 'general class'.	
CA-026	03.2.a	new	Te	Add definitions of 'package' and 'metamodel region', and relate them. The UML definition of package is: A package is used to group elements, and provides a namespace for the grouped elements. but 11179-3 uses the term 'metadata object' to align with the term 'metadata item'. UML allows one package to contain another package, but this standard uses 'metamodel region' for the sub-divisions of a package, which are used primarily to sub-	Add definition of 'package: grouping of **metadata objects** that provides a namespace for the grouped objects, and allows them to be referenced as a group. [Adapted from ISO/IEC DIS 19505-2, 7.3.37] Add definition of 'metamodel region': a sub-division of a **package** used to organize **metadata objects** for ease of explanation.	

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				divide figures to fit on a page. Introducing a hierarchy of packages would unnecessarily complicate the model, but we do need to define and explain 'metamodel region'		
CA-027	03.2.b	new	Te	The term 'subclass' is used but not defined.	Add a definition of 'subclass'. "**class** that is a **specialization** of another class, its **superclass**." NOTE In UML, **subclass**es of a **superclass** are by default not **disjoint**. This standard specifies when subclasses are required to be disjoint. Further, when the list of subclasses is intended to be exhaustive, this standard shows the superclass as abstract, thus preventing any other subclass being instantiated. An abstract class is indicated by showing the class name in *italics* in any class diagram that uses it. Add a xref to 'subclass' as a note to 'specialization'.	
CA-028	03.2.c	new	Te	The term 'superclass' is used but not defined.	Add a definition of 'superclass'. "**class** that is a **generalization** of one or more other classes, its **subclass**es." Add a xref to 'superclass' as a note to 'generalization'.	
CA-029	03.2.d	new	Te	The term 'disjoint' is used but not defined.	Add a definition of 'disjoint': <set theory> having no elements in common.	
CA-030	03.3	All	Te	The inclusion of association names as terms with associated definitions in clause 3 is not very useful. It is better to keep clause 3 for generic concepts only.	Review clause 3.3 for terms which are associations, and remove or redfine as a generic concept.	
CA-031	03.3.1	reference	Ed	The definition has been adapted from ISO 10241 clause 5.2.2. The reference should reflect both the fact it has been adapted, and the clause number.	Change the reference to: [Adapted from ISO 10241:1992, 5.2.2]	

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CA-032	03.3.10	Note	Te	The examples could use some clarification.	Revise the note as: "NOTE Most common semantic relations are binary, e.g. A *equals* B, A *less than* B, etc. An example of a relation which is not binary is *betweenness*." (e.g. A is between B and C)."	
CA-033	03.3.18	definition	Ed	The definition is taken from ISO 1087, but is incomplete. The 1087 definition has a note.	Add the note before the reference: NOTE Concepts are not necessarily bound to particular languages. They are, however, influenced by the social or cultural background which often leads to different categorizations.	
CA-034	03.3.18	definition	Te	In 9.1.2.1, we state that a concept is independent of representation. This would be a useful note to the definitino	Add the note after the reference: NOTE 2 A concept is independent of its representation.	
CA-035	03.3.21	definition	Te	The current definition of conceptual domain is: **concept** that expresses its valid instance meanings or description It is unclear when phrased this way whether the qualifiers 'valid' and 'instance' are intended to be inferred to qualify 'description' as well as 'meanings'. It would be clearer if the order were reversed.	Replace the definition by: **concept** that expresses its description or valid instance meanings	
CA-036	03.3.23	definition	Te	The definition has been changed from Edition 2 – specifically reference to organization Person has been removed. Also, a Contact is an instance of a Role not a Role in itself. The Edition 2 definition was worked out in collaboration between WG1 and WG2 and is used in WG1 standards. The Edition 2 definition should be restored.	Restore the Edition 2 definition, except for the initial 'an': "instance of a role of an individual or an organization (or organization part or organization person) to whom an information item(s), a material object(s) and/or person(s) can be sent to or from in a specified context"	
CA-037	03.3.24+	missing	Te	The term and definition for 'contact information' has been deleted. This was a useful generic term and should be restored.	Restore the term 'contact information' and the definition: "information to enable a **Contact** to be located or communicated with"	

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					Also highlight the term where it is used.	
CA-038	03.3.29	definition	Te	The FCD has removed the 11179 definition of data element that has been used since Edition 1, and has replaced it with the definition from ISO/IEC 2382-4. This change is inappropriate. First, the 11179 definition is referenced in several other standards including those of SC32/WG1 and SC36. Second, the 2382-4 definition is inconsistent with the specification of data element in the metamodel. The 2382-4 definition states that a data element is a: "unit of **data** that is considered in context to be indivisible", but in 11179-3 a data element can be derived and/or can have a composite datatype, which means it does not have to be 'indivisible' in the context of the registry. However, with the introduction of the metamodel in edition 2, data elements are no longer described just by attributes of the data element itself, but also by other associated metadata, such as value domain and data element concept. Therefore, the edition 1 definition does need some modification to account for this.	Restore the definition from edition 2, with the following amendments: 1) add 'and associated metadata' at the end, for consistency with the text in the introduction to this part, which states: "This part of ISO/IEC 11179 provides for <u>the attributes of data elements and associated metadata</u> to be specified and registered as metadata items in a *Metadata Registry*." This resolves the issue that some aspects of a data elements, such as its value domain, are not specified as attributes, but via associations. 2) Remove the indefinite article at the beginning of the definition, to conform with ISO formatting rules; 3) Remove the capitalization of 'permissible value', since the defined term in clause 3 is now in lower case. Proposed revised definition: "unit of data for which the **definition**, identification, representation and **permissible value**s are specified by means of a set of **attribute**s and associated **metadata**.	
CA-039	03.3.30	definition	Te	The current definition of data element concept is unsatisfactory: "**concept** that can be expressed in the form of a **data element**, described independently of any particular representation". It is unclear what determines whether or not a concept can be described as a data element. The description also makes no mention of the	Proposed revised definition: **concept** that expresses a **characteristic** of an **object class**. Note 1: A data element concept is implicitly associated with both the characteristic and the	

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				other classes that a data element concept is related to in the model, namely: object class, characteristic and conceptual domain. A data element concept would be better defined in terms of the object class and characteristic, even though it is not mandatory that they be recorded in the registry. This would then better relate to the definitions of 'data element concept characteristic' (3.3.31) and 'data element concept object class' (3.3.33). The association with conceptual domain and data element should be explained in notes.	object class whose combination it expresses. Note 2: A data element concept may also be associated with zero or more **conceptual domains** each of which expresses its **concept instance meanings**. [A separate ballot comment proposes renaming 'value meanings' to 'concept instance meanings'.] Note 3: A data element concept may also be associated with zero or more **data elements** each of which provide representation for the data element concept via its associated **value domain**.	
CA-040	03.3.31	All	Ed	The term is just the name of an association in the model, and no value is added by including its definition in clause 3.	Delete the term and definition.	
CA-041	03.3.32	All	Ed	The term is just the name of an association in the model, and no value is added by including its definition in clause 3.	Delete the term and definition.	
CA-042	03.3.33	All	Ed	The term is just the name of an association in the model, and no value is added by including its definition in clause 3.	Delete the term and definition.	
CA-043	03.3.34	All	Ed	The term is just the name of an association in the model, and no value is added by including its definition in clause 3.	Delete the term and definition.	
CA-044	03.3.35	All	Ed	The term is just the name of an association in the model, and no value is added by including its definition in clause 3.	Delete the term and definition.	
CA-045	03.3.37	All	Ed	The term is just the name of an association in the model, and no value is added by including its definition in clause 3.	Delete the term and definition.	

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CA-046	03.3.49	definition	Te	The definition is: "**notation** used to describe the **derivation rule".** Rules should be 'specified, not described. See also 11.5.2.5.2.2.	Change 'describe' to 'specify'.	
CA-047	03.3.53	definition	Ed	The first word should not be capitalized.	Change 'Identified' to 'identified'.	
CA-048	03.3.54	definition	Ed	'sign' is a defined term, so should be bold.	Make the correction.	
CA-049	03.3.62	definition	Te	The definition of enumerated conceptual domain is: **conceptual domain** that is specified by a list of all its **value meaning**s The term 'value meaning' is inappropriate because there is no 'value' until the conceptual domain is associated with a value domain, and such an association is not required. The definition of the superclass conceptual domain uses the term 'instance meanings' which avoids the problem. However, the term is used in the context of a concept, so the complete term is 'concept instance meanings' [Note: This problem also exists in Edition 2.]	Replace 'value meaning' by 'concept instance meaning' in this definition, its accompanying note, and throughout the document.	
CA-050	03.3.64	new note	Ed	The model specifies Slot as a means of extension.	Add a xref to slot (3.3.120).	
CA-051	03.3.80	Note	Ed	The note cross-references model attributes that use the concept, which the document does not typically do.	Be consistent in how cross-references are used. WG2 has previously agreed to add cross-references from the later clause to clause 3, but we believe the reverse is not needed. Delete the Note.	
CA-052	03.3.91	definition	Te	The definition refers to 'a specific value domain', but the model in Figure 11-3 and in clause 11.3.2.7 and 11.3.3.5 shows zero to many value domains for the permissible value set association.	Either change the multiplicity of the association, or change the definition of permissible value, to make them consistent.	

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CA-053	03.3.91	definition	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'	
CA-054	03.3.91	definition	Te	The definitions of Value Domain and permissible value are circular. Value Domain is defined as: set of **permissible value**s Permissible value is defined as: **designation** of a **value meaning** within a specific **value domain** Substituting the former into the latter yields: Permissible value: **designation** of a **value meaning** within a specific set of **permissible value**s	The definition of permissible value needs to be rewritten. Suggest deleting the phrase 'within a specific value domain', and adding a note describing the association with zero to many value domains.	
CA-055	03.3.102	term	Te	based on the definition, the term would be better as 'reference document provider'. See similar comment on 6.3.6.2.6.	make the change.	
CA-056	03.3.103	note 3	Ed	'is' is repeated.	Remove one occurrence of 'is' where it is repeated.	
CA-057	03.3.112	definition	Ed	The definition contains two sentences, but the first word of the second sentence is not capitalized.	Change the period in the middle of the definition to a semi-colon.	
CA-058	03.3.121	definition	Ed	ISO/IEC guidelines call for the omission of articles at the beginning of definitions.	Delete the initial 'the'.	
CA-059	03.3.121	note 2	Ed	Note 2 references 'steward' which has been replaced by 'stewardship organization' and 'stewardship contact'. In Edition 2, the xref was to a different sub-clause. Now the cross-referenced item is within a few lines, the xref seems unnecessary.	Delete Note 2, and remove the number from Note 1.	
CA-060	03.3.136	term	Te	Apply the resolution of the comment on 3.3.62.	Replace the term 'value meaning' by 'concept instance meaning'. Reposition the term in clause 3 to maintain alphabetical sequence. Amend any references accordingly.	

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CA-061	03.3.136	definition	Te	As per the comment on enumerated conceptual domain (3.3.62), the reference to 'value' is inappropriate in the definition because the conceptual domain needs to be able to stand on its own without reference to a value domain. The current definition belongs in a note.	Replace the definition by: 'semantic content of an instance of a **concept**' NOTE 1: a set of instance meanings for a concept forms an **enumerated conceptual domain**. NOTE 2: when an **enumerated value domain** is associated with an **enumerated conceptual domain**, each **permissible value** is mapped to a **concept instance meaning**, by which the permissible value acquires semantic content.	
CA-062	03.3.136	note 2	Te	Apply the resolution of the comment on 3.3.62. Also, change the reference to Value_Domain to use 'value domain' (i.e. use the generic term, not the class name.)	Renumber the note and reword as: NOTE 3 The representation of **concept instance meaning**s in a registry shall be independent of (and shall not constrain) their representation in any corresponding **value domain**.	
CA-063	04.6	item d	Ed	There is an extra space after the second comma.	Remove the extra space.	
CA-064	05 thru 11	various	Ed	The terms 'package' and 'region' are sometimes capitalized, and sometimes not.	Use consistent capitalization. We recommend lower case.	
CA-065	05 thru 11	various	Te	Subclause 6.2 describes the basic types of the metamodel. The 19773 features of multistring and multitext should be included. Elsewhere, the multistring and multitext features should be used, where appropriate, to provide multi-lingual capability, such as textual descriptions. Note that WG2 has spent much time developing 19773 for common, reusable features to be used in several WG2 projects, and note that 19773 has completed the FCD stage, therefore the 19773 features should be referenced and used.	Use multistring and multitext, as appropriate. Use 19773 multilingual features.	

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CA-066	05 thru 11	various	Te	Edition 3 FCD has broken the already very limited versioning capability of Edition 2. In Edition 2, 'version' is part of the 'Item_Identifier', allowing multiple versions of an item to be registered with the same *data_identifier*, but different *versions*. In Edition 3, 'version' is just an attribute of Administered_Item, allowing only one version of an item to be registered with the same *identifier*.	Restoring the Edition 2 functionality can be accomplished by moving 'version' from Administered_Item to Scoped_Identifier. In the long term, we need to specify requirements for version control, and then determine how best to meet those requirements.	
CA-067	05 thru 11	various	Ed	In clause 3 we use **bold** font to indicate that a term used in a definition is itself a defined term in clause 3. In clauses 5 thru 11, we use *italic* font to indicate that a term used is either a defined term in clause 3, or a metamodel element in specified in clauses 5 thru 11. We also use cross-references to the definitions. Should we distinguish more clearly between terms defined in clause 3 and metamodel elements, e.g. by using **bold** font for the terms from clause 3?	Do be discussed at Ballot Resolution Meeting.	
CA-068	05.2	list item 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-069	05.5.1	figure 5-2	Ed	Why are the Designatable_Item and Classifiable_Item named this way, instead of Designated_Item and Classified_Item? These types will only be applied to metadata items when they are to be used, at which point the item will be Designated or Classified. Why does the same principle not apply to Identified_Item and Registered_Item, since we no longer require any metadata item to be identified or registered.	If there is a valid reason for the current naming, it should be stated in the text. Otherwise, rename to Designated_Item and Classified_Item wherever they are used.	
CA-070	05.5.2	last para	Ed	The word 'to' is missing after 'according'	Add the missing word.	
CA-071	05.7	reference	Te	The latest version of ISO 8601 is dated 2004.	Change the reference to ISO 8601:2004.	

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CA-072	06 thru 11	various	Te	The use of 'designation', 'name' and 'sign' is confused. According to 3.3.80, 'name' implies a linguistic expression, while according to 3.3.119, 'sign' is any textual string or symbol. However, in the classes Individual and Organization, we have attributes called 'name' with a datatype of 'Sign' This is inconsistent. In Designation, the attribute designation_sign has datatype 'Sign', which is more consistent.	Make the use of 'name' and 'sign' in the model consistent with their definitions. Do not use 'Sign as a datatype for anything called 'name'.	
CA-073	06 thru 11	all	Ed	The tables of attributes include the row 'Data type', but in this document we use the form 'Datatype'	Change all occurrences of 'Data type' to 'Datatype'.	
CA-074	06 thru 11	all	Te	The descriptions of associations tends to focus on the syntax and do not always describe the meaning of the associations.	Review all descriptions and add explanations of what the associations mean, where this is missing.	
CA-075	06.2.7	line 1	Ed	The xref to 3.3.83 should be in parentheses.	Add the missing parentheses.	
CA-076	06.3.2	All	Te	In subclause 6.3.2, the contact data does not use the 19773 contact data module. Contact data was one of the primary reasons for the creation of 19773 and a reusable set of modules.	Use the 19773 contact data module.	
CA-077	06.3.2	All	Te	Contact requires the specification of an Individual at an Organization, but frequently an organization will want to specify a role, without specifying the individual that performs the role, since that information is more volatile than the role itself. The definition of *contact* in clause 3 explicitly refers to Role.	Add the capability to specify a Role instead of an Individual. Remove the requirement to specify an Individual. Make the class consistent with the definition.	
CA-078	06.3.4.1	All	Te	The clause references RFC 4646, which has been superseded by RFC 5646.	Update the reference, and review the new RFC to see what other changes are required to align with it.	
CA-079	06.3.4.1	Para 2	Te	Para 2 presents a list of parts of Language_Identification. Note 1 subsequently introduces the term 'language	Expand the text that introduces the list, as follows:	

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				subtags' without explanation that this refers to the listed items.	"The identifier is comprised of the following attributes, which are based on IETF RFC 4646. IETF RFC 4646 refers to these attributes as 'language subtags'."	
CA-080	06.3.4.1	3rd list item	Te	In Figure 6-2, 'region_identifier' was renamed to 'geopolitical_territory_identifier'. The text needs to be changed to match.	Change 'region_identifier' to 'geopolitical_territory_identifier'.	
CA-081	06.3.4.2.3	heading, attribute name	Ed	In Figure 6-2, 'region_identifier' was renamed to 'geopolitical_territory_identifier'. The text needs to be changed to match.	Change 'region_identifier' to 'geopolitical_territory_identifier'.	
CA-082	06.3.4.2.4	Note	Ed	The word 'to' is missing after 'are used'	Add the missing word.	
CA-083	06.3.4.2.5	Note 2	Ed	When the FDIS is published, another check should be made to see if any extensions have been registered.	If extensions are found, they should be listed, or if not, the 'as of' date should be updated.	
CA-084	06.3.5	All	Te	The organization class should have additional attributes, such as: email_address, phone_number, web URI for use independent of any specific contact.	Add the suggested attributes, and any others that may be suggested by the ballot resolution meeting.	
CA-085	06.3.6.2.2	All	Te	If reference_document_type_description really is intended to describe the 'type' of document, then it would be more natural to develop a reference table of type codes and descriptions, and to use the code in the reference document itself. We are not proposing that WG2 standardize the list of codes, just that we model using a reference table and allow the RA and/or registry users to specify their own values. Alternatively, if the intent is to describe the particular document, remove the word type from the name.	The BRM should determine whether this attribute is intended to specify a document type, or to describe the document, and make the appropriate changes.	
CA-086	06.3.6.2.6	header, attribute name,	Te	The attribute name 'reference_provider' is inconsistent with the other attribute names, and does not accurately reflect the intent. See similar comment on 3.3.102.	Rename 'reference_provider' to 'reference_document_provider', and update Figure 6_2 as well.	

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CA-087	07.1	Table 7-1	Ed	In the last row of the table, 'Type' s/b 'Datatype'.	Make the correction.	
CA-088	07.2.2.2.2.2	obligation	Te	The attribute full_expansion is specified as derived, but the specification does not include the derivation rules. If we cannot specify the derivation rules, we should not specify it as derived. Changing the text to not specify it as derived does not prevent it being derived in any particular instance.	Remove 'derived' from the obligation, and remove the '/' from the attribute name in Figure 7-1 (which indicates that it is derived).	
CA-089	07.2.2.2.2.3	condition	Ed	In the note, the attribute is name is specified incorrectly.	Change 'short_expansion' to 'shorthand_expansion'.	
CA-090	07.2.2.4.1	para 3, item 2	Ed	In the example, the string specified is a Date, not a Datetime.	Change 'Datetime' to 'Date'.	
CA-091	07.2.2.4.1	Note	Ed	The note refers to ebXML and 19773. Add xrefs to where more information can be found, in Bibliography and Normative References respectively.	Add the cross-references.	
CA-092	07.2.2.4.2.1	definition	Ed	A CD2 ballot comment changed the attribute name from 'slot_name' to 'name' on the grounds that including the class name in the attribute is redundant. However, this means that the definition is now invalid since it uses the attribute name in its own definition: name: name of the Slot	Either revise the definition to avoid the circular reference, or restore the previous attribute name. We would prefer to restore the previous name.	
CA-093	07.2.2.4.2.2	name	Ed	The name 'type' is misleading and too general, since this is attribute specifies the 'datatype' of the slot.	Rename 'type' to 'datatype', or 'slot_datatype' depending on the resolution of related comments on 'name' and 'value'. If the prefix 'slot_' is not used, then the definition will have to be reworded to avoid a circular reference. We would prefer 'slot_datatype', to avoid confusion with the Datatype class.	
CA-094	07.2.2.4.2.3	definition	Ed	A CD2 ballot comment changed the attribute name from 'slot_value' to 'value' on the grounds that including the	Either revise the definition to avoid the circular reference, or restore the previous attribute name.	

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				class name in the attribute is redundant. However, this means that the definition is now invalid since it uses the attribute name in its own definition: value: value of the Slot	We would prefer to restore the previous name.	
CA-095	07.2.3.2	header	Ed	'association' is misspelt	Correct the spelling.	
CA-096	07.3.2.1	para 1	Ed	The reference to ISO 10241 is imprecise.	Change the reference to: [Adapted from ISO 10241 5.2.2.]	
CA-097	07.3.2.1	para 1	Te	Add an explanation of how this enumeration is used.	At the end of the sentence add: "This enumeration is used as a *datatype* for the attributes *designation_acceptability* and *definition_acceptability*."	
CA-098	07.3.2.5	para 1	Ed	The term *context* should have an associated reference to its definition in clause 3.	Add the reference in parentheses after the term: *context* (3.3.26) (amended as required to allow for insertion and/or deletion of other terms.)	
CA-099	07.3.2.5	para 2	Te	'owner of the registry' is not a defined term, so is meaningless.	Replace by 'steward of the *Context*, or the *Registration_Authority*'	
CA-100	07.3.2.5	paras 3 and 4	Ed	The description of associations has not been rewritten in the agreed style: A *Context* <u>may</u> have zero or more *Definition_Context* (7.3.3.1) associations with a *relevant_definition* of type *Definition* where the *Context* provides the *scope* of the associated *Definition*. A *Context* <u>may</u> have zero or more *Designation_Context* (7.3.3.2) associations with a *relevant_designation* of type *Designation* where the *Context* provides the *scope* of the associated *Designation*.	Replace these paragraphs by: A *Context* <u>may</u> participate in the associations: — *Definition_Context* (7.3.3.1) with zero or more *relevant_definitions* of type *Definition* (7.3.2.4) where the *Context* provides the *scope* of the associated *Definition*. — *Designation_Context* (7.3.3.2) with zero or more *relevant_designation* of type *Designation* (7.3.2.3) where the *Context* provides the *scope* of the associated *Designation*.	

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CA-101	07.3.2.6	paras 6, 7 and 8	Te	Three paragraphs in this is subclause still use the term *Designation_Space* instead of *Namespace*, and *designation_space_membership* instead of *designation_namespace*. They also need to be revised to follow the new structure for specifying associations. Existing text: A *Designation_Space* may have zero or more *designation_space_membership* associations with an *included_designation* of type *Designation* where the *Designation_Space* provides the *namespace* of the associated *Designation*. One use of *Designation_Spaces* is to permit the *Designatable_Item* represented by a *designation_sign* to be uniquely determined for a sign within a particular *Designation_Space*. A *Designation_Space* may participate in the associations: *naming_convention_utilization* and *designation_space_membership*.	Replace by: A *Namespace* may have zero or more *designation_namespace* associations with an *included_designation* of type *Designation* providing the *namespace* of the associated *Designation*. One use of *Namespaces* is to permit the *Designatable_Item* represented by a *designation_sign* to be uniquely determined for a sign within a particular *Namespace*. The third paragraph was redundant and has been deleted.	
CA-102	07.3.3.1.1	para 3	Ed	There is spurious 'of' after 'within'.	Remove 'of'.	
CA-103	07.3.3.1.2.1	definition	Ed	The definition uses the term acceptability but the defined term in clause 3.3.1 is 'acceptability rating'. 'Acceptability rating' is used by both ISO 10241 (from which we take the term) and by ISO 1087.	Change 'acceptability' to 'acceptability rating' and highlight to show it is a defined term.	
CA-104	07.3.3.2.2.1	definition	Ed	The definition uses the term acceptability but the defined term in clause 3.3.1 is 'acceptability rating'. 'Acceptability rating' is used by both ISO 10241 (from which we take the term) and by ISO 1087.	Change 'acceptability' to 'acceptability rating' and highlight to show it is a defined term.	
CA-105	07.3.4.1	all	Ed	This subclause needs to be reformatted in the new style. Existing text: *designation_namespace* is an association between a *Designation* and a *Namespace* that indicates that the *Designation* is bound to that *Namespace*. The association	Replace by: The *designation_namespace* association records the binding of zero or more *Designations* (7.3.2.3) to zero or more *Namespaces* (7.3.2.6). The	

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				is used to record the *Namespace*s in which a *Designation* is valid. The association has two roles: namespace (verb form: occurs_in_namespace) and binding (verb form: binds_to). The namespace role refers to a *Namespace*. The binding role refers to a *Designation*. Each namespace may have zero or more bindings. Each binding may occur in zero or more namespaces.	association is used to record the *Namespace*s in which a *Designation* is valid. The association has two roles: — namespace (verb form: occurs_in_namespace) which references a *Namespace*; — binding (verb form: binds_to) which references a *Designation*.	
CA-106	07.3.4.2	all	Ed	This subclause needs to be reformatted in the new style. Existing text: *item_definition* is an association between a *Designatable_Item* and a *Definition,* that indicates that the *Designatable_Item* is defined by *Definition*. The association records all of the definitions for a specific *Designatable_Item*. The association has two roles: item (verb form: used_for_item) and definition (verb form: has_definition). The item role references a *Designatable_Item*. The definition role references a *Definition*. Each definition shall have exactly one item. Each item may have zero or more definitions. A *Definition* is used for exactly one *Designatable_item*. Definitions may not be not be reused across multiple *Designatable_Item*s because each such item should be distinct and distinguishable, and this should be reflected in the *Definition*, if not in the text itself, then in the associated *Context*.	Replace by: The *item_definition* association between a *Designatable_Item* (7.3.2.2) and zero or more *Definitions* (7.3.2.4), records that the *Designatable_Item* is defined by the *Definition*. The association records all of the definitions for a specific *Designatable_Item*. The association has two roles: — item (verb form: used_for_item); — definition (verb form: has_definition). The item role references a *Designatable_Item*. The definition role references a *Definition*. Each definition shall have exactly one item. Each item may have zero or more definitions. A *Definition* is used for exactly one *Designatable_item*. Definitions may not be not be reused across multiple *Designatable_Item*s because each such item should be distinct and distinguishable, and this should be reflected in the	

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					Definition, if not in the text itself, then in the associated *Context*.	
CA-107	07.3.4.3	all	Ed	This subclause needs to be reformatted in the new style. Existing text: *item_designation* is an association between a *Designatable_Item* and a *Designation,* that indicates that the *Designatable_Item* is designated by the *Designation.* The association records all of the *Designation*s (sign + language pairs) of a *Designatable_Item.* The association has two roles: item (verb form: used_for_item) and designation (verb form: has_designation). The item role references a *Designatable_Item.* The designation role references a *Designation*. Each designation shall be used for exactly one item. An item may have zero or more designations. *Designation*s may not be not be reused across multiple *Designatable_Items* because each such item should be distinct and distinguishable, and this should be reflected in the *Designation*, if not in the *Sign* itself, then in the associated *Context* or *Namespace*.	Replace by: The *item_designation* association between a *Designatable_Item* (7.3.2.2) and zero or more *Designations* (7.3.2.3), records all of the *Designation*s (sign + language pairs) of a *Designatable_Item.* The association has two roles: — item (verb form: used_for_item); — designation (verb form: has_designation). The item role references a *Designatable_Item.* The designation role references a *Designation*. Each designation shall be used for exactly one item. An item may have zero or more designations. *Designation*s may not be not be reused across multiple *Designatable_Items* because each such item should be distinct and distinguishable, and this should be reflected in the *Designation*, if not in the *Sign* itself, then in the associated *Context* or *Namespace*.	
CA-108	07.3.4.4	all	Ed	This subclause needs to be reformatted in the new style. Existing text: *naming_convention_conformance* is an association between a *Designation* and a *Naming_Convention* indicating that the *Designation* conforms to the *Naming_Convention*. The association records which *Naming_Convention*s (if any) a particular *Designation*	Replace by: The *naming_convention_conformance* association between a *Designation* (7.3.2.3) and a *Naming_Convention* (7.3.2.7) records which *Naming_Convention*s (if any) a particular *Designation* conforms to.	

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				conforms to. The association has two roles: convention (verb form: conforms_to) and conformant_designation (verb form: has_conformant_designation). The convention role refers to a *Naming_Convention*. The conformant_designation role refers to a *Designation*. Each conformant_designation may have zero or more conventions. Each convention may have zero or more conformant_designations.	The association has two roles: — convention (verb form: conforms_to); — conformant_designation (verb form: has_conformant_designation). The convention role refers to a *Naming_Convention*. The conformant_designation role refers to a *Designation*. Each conformant_designation may have zero or more conventions. Each convention may have zero or more conformant_designations.	
CA-109	07.3.4.5	all	Ed	This subclause needs to be reformatted in the new style. Existing text: *naming_convention_utilization* is an association between a *Namespace* and a *Naming_Convention* indicating that the *Namespace* uses the *Naming_Convention* for its *Designations*. The association records the *Naming_Convention*s (if any) used by a *Namespace*. The association has two roles: utilization (verb form: utilized_by) and acceptable_convention (verb form: accepted_convention). The utilization role refers to a *Namespace*. The acceptable_convention role refers to a *Naming_Convention*. Each utilization may utilize zero or one accepted_conventions. Each accepted_convention has zero or more utilizations.	Replace by: The *naming_convention_utilization* association between a *Namespace* (7.3.2.6) and a *Naming_Convention* (7.3.2.7) records that the *Namespace* uses the *Naming_Convention* for its *Designations*. The association records the *Naming_Convention*s (if any) used by a *Namespace*. The association has two roles: — utilization (verb form: utilized_by); — acceptable_convention (verb form: accepted_convention). The utilization role refers to a *Namespace*. The acceptable_convention role refers to a *Naming_Convention*. Each utilization may utilize zero or one accepted_conventions. Each accepted_convention has zero or more utilizations.	

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CA-110	07.3.4.6	heading	Ed	The association between Designation and Definition is called 'term_definition_pairing', but we do not use the term 'term' in this context.	Rename the association to: 'designation_definition_pairing' Revise Figure 7-2 accordingly.	

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CA-111	07.3.4.6	all	Ed	This subclause needs to be reformatted in the new style. Existing text: *term_definition_pairing* is an association between a *Designation* and a *Definition*. The association is used to bind *Designations* to their associated *Definitions*. NOTE 1 If there is a need to pair a term with different definitions in different contexts, then this requires the use of separate *Designatable_Items, Designations* and *Definitions*, even though the *Sign* used by each *Designation* may be identical. NOTE 2 The requirement that a *Designation* be associated with a *Designatable_Item*, means that it is not possible to use the registry simply to record terms and their definitions without reference to some item. It is anticipated that such a requirement would be met by the use of a *Concept_System* (**Error! Reference source not found.**), where term is associated with a *Concept* (**Error! Reference source not found.**). The association has two roles: definition_heading (verb form: used_for_definition_heading) and specific_definition (verb form: defined_as). The heading role refers to a *Designation*. The specific_definition role refers to a *Definition*. Each specific_definition may have zero or one definition_headings. Each definition_heading may have zero or one specific_definitions.	Replace by: The *designation_definition_pairing* association between a *Designation* (7.3.2.3) and a *Definition* (7.3.2.4) records the binding of a *Designation* to its associated *Definition*. NOTE 1 If there is a need to pair a designation with different definitions in different contexts, then this requires the use of separate *Designatable_Items* (7.3.2.2)*, Designations* and *Definitions*, even though the *Sign* used by each *Designation* may be identical. NOTE 2 The requirement that a *Designation* be associated with a *Designatable_Item*, means that it is not possible to use the registry simply to record terms and their definitions without reference to some item. It is anticipated that such a requirement would be met by the use of a *Concept_System* (**Error! Reference source not found.**), where term is associated with a *Concept* (**Error! Reference source not found.**). The association has two roles: — definition_heading (verb form: used_for_definition_heading); — specific_definition (verb form: defined_as). The definition_heading role refers to a *Designation*. The specific_definition role refers to a *Definition*. Each specific_definition may have zero or one definition_headings. Each definition_heading may have zero or one specific_definitions.	

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

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CA-112	08.1.2.2.2	attributes	Te	In the description of attributes, two references to datatype *Date* should be *Datetime* for consistency with the description and Figure 8-1.	Change *Date* to *Datetime* for *creation_date* and *last_change_date*.	
CA-113	08.1.2.2.3.2	data type	Te	The reference to datatype *Date* (6.2.3) should be *Datetime* (6.2.4) for consistency with the description and Figure 8-1.	Change *Date* (6.2.3) to *Datetime* (6.2.4).	
CA-114	08.1.2.2.3.3	data type	Te	The reference to datatype *Date* (6.2.3) should be *Datetime* (6.2.4) for consistency with the description and Figure 8-1.	Change *Date* (6.2.3) to *Datetime* (6.2.4).	
CA-115	08.1.2.5.2	para 3	Ed	The reference to ra_identifier should be registration_authority_identifier	Make the correction	
CA-116	08.1.2.6.1	para 3, 1st list item	Ed	'live-cycle' should be 'life-cycle'	Make the correction	
CA-117	08.1.2.6.1	para 3, 2nd list item	Te	The reference to datatype *Date* (6.2.3) should be *Datetime* (6.2.4) for consistency with the description and Figure 8-1.	Change *Date* to *Datetime*	
CA-118	08.1.2.6.1	para 4, 2nd list item	Te	The reference to datatype *Date* (6.2.3) should be *Datetime* (6.2.4) for consistency with the description and Figure 8-1.	Change *Date* to *Datetime*	
CA-119	08.1.2.6.2.2	data type	Te	The reference to datatype *Date* (6.2.3) should be *Datetime* (6.2.4) for consistency with the description and Figure 8-1.	Change *Date* (6.2.3) to *Datetime* (6.2.4).	
CA-120	08.1.2.6.2.3	data type	Te	The reference to datatype *Date* (6.2.3) should be *Datetime* (6.2.4) for consistency with the description and Figure 8-1.	Change *Date* (6.2.3) to *Datetime* (6.2.4).	
CA-121	08.1.2.9.2.5	Example	Ed	There is a space missing after 'or'.	Insert the missing space.	

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CA-122	08.1.3.1	line 1	Ed	The first sentence does not follow the standard for class definition.	Replace: 'that models' by ', each instance of which models'.	
CA-123	08.1.3.1	line 3	Ed	The reference to 6.2.3 should be 6.3.2.	Correct the reference.	
CA-124	08.1.3.2	para 2, line 3	Ed	There is a spurious 'r' at the end of line 3	Remove the 'r'.	
CA-125	08.1.3.3	para 2	Ed	'Reference Document' s/b 'Reference_Document'.	Make the correction	
CA-126						
CA-127	08.1.5.1.1	para 1, line 2	Ed	'metadata register' is a defined term and should be *italicized*.	Make the correction	
CA-128	08.1.6.1	All	Ed	This subclause needs to be reformatted in the new style. Existing text: *attachment* is an association between an *Administered_Item* (8.1.2.2) and an *Attached_Item* (8.1.2.3) that indicates that the *Attached_Item* shares all of the administration characteristics of the *Administered_Item*. *attachment* enables collections of *Registered_Items* (8.1.2.1) to be administered collectively as a block. *attachment* has two roles: *owner* (verb form: *has owner*) and *attached item* (verb form: *attached to*). The *owner* role references an *Administered_Item* and the *attached item* role references an *Attached_Item*. Every *Attached_Item* shall have an *attachment* association with exactly one *owner Administered_Item*. An *Administered_Item* may have an *attachment* association with zero or more *Attached_Items*.	To be provided.	
CA-129	08.1.6.2	All	Te	We no longer use the term *identifier_space*. All occurrences should be replaced by *namespace*.	Make the necessary changes.	

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CA-130	08.1.6.2	All	Ed	This subclause needs to be reformatted in the new style. Existing text: *registration_authority_identifier_space* is an association between a *Registration_Authority* (8.1.2.4.4) and a *Namespace* (8.1.4.1). A *Registration_Authority* may have zero or one *registration_authority_identifier_space* with a *registration_identifier_space Namespace* that provides the scope for the *registration_authority_identifier* (8.1.2.5.3.1) for the *Registration_Authority*.	To be provided.	
CA-131	08.1.6.2	line 2	Ed	The word 'association' is missing following *registration_authority_identifier_space*	Make the correction.	
CA-132	08.1.6.3	All	Ed	This subclause needs to be reformatted in the new style. Existing text: *registration_authority_registrar* is an association between a *Registration_Authority* (8.1.2.4.4) and a *Registrar* (8.1.2.4) that indicates that the *Registrar* is a representative of the *Registration_Authority*. Every *Registration_Authority* shall have one or more *registration_authority_registrar* associations with a *Registrar* where the *Registration_Authority* provides the authority of the associated *Registrar*.	To be provided.	
CA-133	08.1.6.4	All	Ed	This subclause needs to be reformatted in the new style. Existing text: *stewardship* is the association of an *Administered_Item* (8.1.2.2) to a *Stewardship_Record* (8.1.2.7), which records the *stewardship_organization* (8.1.2.7.2.1) of type *Organization* (8.1.3.2) and *stewardship_contact* (8.1.2.7.2.2) of type *Contact* (8.1.3.1) involved in the stewardship of the *Administered_Item*.	To be provided.	
CA-134	08.1.6.5	All	Ed	This subclause needs to be reformatted in the new style. Existing text:	To be provided.	

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				submission is the association of a *Registered_Item* (8.1.2.1) with a *Submission_Record* (8.1.2.7.3), which records the *submission_organization* (8.1.2.8.2.1) of type *Organization* (8.1.3.2) involved in the *submission* of the *Registered_Item*.		
CA-135	09.1.2.2.1	para 2	Te	The paragraph introduces the terms 'taxonomy' and 'meronomy', but they are not defined. These terms are not used elsewhere in the document. Is it necessary to introduce them.	Preferably remove the terms. If they are retained, add definitions in clause 3.	
CA-136	09.1.2.2.1	para 5 examples	Ed	OWL-DL is given as an example, but there is no reference as to where to find further information.	Add a reference in the Bibliography.	
CA-137	09.1.2.4.2	para 1	Te	The description of Relation is too technical. Also, the description is not written in the standard style.	Provide a less technical description, and write it in the standard style.	
CA-138	09.1.2.4.2	Note 1	Te	"Note 1 states that the *relation* is defined by means of a *predicate*, but no predicate is specified in the model. Without a predicate, how is the relevant subset specified? It seems inadequate to infer the relation from its member links. Since *Relation* is a subtype of *Concept*, it is possible we could use *Assertions* on the *Concept* to specify the *Relation*. If this is intended it should be explicitly stated, and note 1 needs to be reworded."	None provided.	
CA-139	09.1.3.9	para 2,3	Te	The text has been copied from the previous clause and does not describe the link_end_role association.	Describe the link_end_role association.	
CA-140	09.1.4.1.2	para 3	Te	The subclassing of the Link_End association class from the assertion_term association has raised questions about the multiplicity of the associations at Concept.	Add a Note to the description of the Link_End association class after the description of the roles: Note: In Figure 9-1, the association 'assertion_term' has a multiplicity of '1..*' at concept (one or more terms), while the subclassed association has a multiplicity of '2..*' (two or more ends). The interpretation	

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				is that the superclass has a constraint that there be 'at least one' associated concept, while the subclass has the constraint that there be 'at least two'. Any association that satisfies the second constraint necessarily satisfies the first, so is a valid sub-class of the first. Question 1: Should be using the term multiplicity or cardinality here? Question 2: Should we be using 'subclassing', 'subtyping' or something else when referring to associations?		
CA-141	09.2.2.2	constraint	Ed	The acronym DAG is provided for 'directed acyclic graphs', but this acronym is never used, nor is it listed in clause 3.4	Remove the acronym.	
CA-142	11.1.1	para 1	Ed	The reference to figure 10-1 should be 11-1	Make the correction.	
CA-143	11.1.1	new	Ed	Clause 11.6 includes a consolidated figure of the metamodel region. It would be useful to make people aware of that fact up front.	Insert beneath Fig 11-1 a cross-reference to clause 11-6 with a description of what it contains.	
CA-144	11.1.2.1	para 1	Ed	The reference to figure 10-1 should be 11-1	Make the correction.	
CA-145	11.1.2.2.1	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-146	11.1.2.3	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-147	11.1.3	clause name	Ed	The metamodel region is misnamed.	Insert 'Data Description' after 'High Level'.	

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CA-148	11.1.3.1	para 3	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (2 occurrences)	
CA-149	11.1.3.1	para 4	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-150	11.1.3.4	Para 2	Ed	"i.e." is incorrect. The following statement is only an example of the preceding statement.	Change 'I.e.' to "For example,"	
CA-151	11.1.3.5	para 2	Ed	The reference to the UML model should specify the relevant figure.	Specify Figure 11-1.	
CA-152	11.2.2.1.2	Example	Te	The example given "Person Country of Residence" would be better model as a relationship between two objects. A better example of a data element concept would be "Person height".	Replace "Person Country of Residence" by "Person height"	
CA-153	11.2.2.2.2	para 1	Te	We need an example to clarify why a characteristic has no representation.	Add the following example at the end of para 1: E.g. 'Red' is a property, and can be represented, but the associated characteristic 'Colour' cannot be represented except via examples of properties.'	
CA-154	11.2.3	All	Te	The descriptions of the associations describes the syntax but not what they mean.	Describe the meaning of the associations.	
CA-155	11.2.3.3	para 1	Ed	There are some spurious words.	In line 2, delete 'that' from 'that whose' In line 3, delete 'the' from 'the a'.	
CA-156	11.3.1	Figure 11-3	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_instance_Meaning' in the class name and all its attributes, and the association 'value_meaning_set'.	
CA-157	11.3.1	Figure 11-3	Te	The multiplicity of the permissible_value_set association at the Enumerated_Value_Domain is shown as '0..*', but the definition of permissible value in 3.3.91 implies it should be '1..1'.	Either change the multiplicity of the association, or change the definition of permissible value, to make them consistent.	

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CA-158	11.3.1	Figure 11-3	Ed	Keep the caption on the same page as the figure.	Make the correction.	
CA-159	11.3.2.1.2	Para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Rewrite in the standard style.	
CA-160	11.3.2.1.2	Para 1 Note	Ed	The reference to Fig 10-3 s/b 11-3.	Make the correction.	
CA-161	11.3.2.1.2	Para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-162	11.3.2.1.3.1	definition	Ed	The font size of the text is inconsistent with the rest of the table	Correct the font size.	
CA-163	11.3.2.2.2	Para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Rewrite in the standard style.	
CA-164	11.3.2.3	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-165	11.3.2.3.2	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-166	11.3.2.3.2	Para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Rewrite in the standard style.	
CA-167	11.3.2.3.2	All	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-168	11.3.2.3.3	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-169	11.3.2.3.3.1	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'.	

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CA-170	11.3.2.3.3.1	attribute name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'.	
CA-171	11.3.2.3.3.1	definition	Te	Apply the resolution of the comment on 3.3.62. Also, use the generic terms in the definition instead of the class names.	Replace 'Value_Meaning' by 'concept instance meaning'.	
CA-172	11.3.2.3.3.1	note	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-173	11.3.2.3.3.2	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'.	
CA-174	11.3.2.3.3.2	attribute name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'.	
CA-175	11.3.2.3.3.2	definition	Te	Apply the resolution of the comment on 3.3.62. Also, use the generic term in the definition instead of the class name.	Replace 'Value_Meaning' by 'concept instance meaning'.	
CA-176	11.3.2.3.3.2	note 1	Te	Apply the resolution of the comment on 3.3.62. Also, use the generic term in the definition instead of the class name.	Replace the note by: The absence of the *concept_instance_meaning_end_date* indicates that the *concept instance meaning* is still valid.	
CA-177	11.3.2.3.3.2	note 2	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (2 occurrences)	
CA-178	11.3.2.3.3.2	end marker	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-179	11.3.2.4.2	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Rewrite in the standard style.	
CA-180	11.3.2.4.2	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	

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CA-181	11.3.2.5.1	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx. Also, the textual description of the attributes is missing.	Rewrite in the standard style.	
CA-182	11.3.2.5.1	para 2 note	Ed	The referenced figure should be 11-3, not 12.	Correct the reference.	
CA-183	11.3.2.5.2	all	Te	The basic attributes in clause 12.4 support both minimum size and maximum size, while the metamodel supports on 'maximum character quantity'. This was also true in Edition 2. Why did we drop support for minimum size, and why did we restrict maximum size to character string?	Either restore the dropped functionality, or provide a rationale in the text for having dropped it. [If the latter, the rationale should go in Annex C which maps the basic attributes to the metamodel.]	
CA-184	11.3.2.6.2	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx. Also, the textual description of the attributes is missing.	Rewrite in the standard style.	
CA-185	11.3.2.6.2	para 1	Te	The text states that an enumerated value domain must contain at least two permissible values, but figure 11-3 allows for only one value. There seems no reason to require more than one value. A value domain containing a single permissible value would represent a constant, but we should not prevent users registering constants if they wish to do so.	Change 'two' to 'one'. Add a note that a single value implies a constant.	
CA-186	11.3.2.7	Para 3	Te	The description of the permissible_value_set association here and in clause 11.3.3.5, is inconsistent with the definition of permissible value in clause 3.3.91.	Either change the multiplicity of the association, or change the definition of permissible value, to make them consistent.	
CA-187	11.3.2.7.1	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx. Also, the textual description of the attributes is missing.	Rewrite in the standard style.	

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CA-188	11.3.2.8.2	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx. Also, the textual description of the attributes is missing.	Rewrite in the standard style.	
CA-189	11.3.2.8.2	para 1	Te	The terms 'abstract class' and 'concrete class' need to be defined in clause 3.2.	Define the terms.	
CA-190	11.3.2.9.2.3	datatype	Te	The use of *Sign* to specify the datatype_scheme_reference is unnecessarily restrictive, when we have the basic class *Reference_Document* available	Change the datatype from *Sign* to *Reference_Document*. Make the corresponding change in Figure 11-3.	
CA-191	11.3.3.2	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'.	
CA-192	11.3.3.2	all	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'. (multiple occurrences)	
CA-193	11.3.3.2	para 2	Ed	The word 'of' is missing after 'cascading delete'	Make the correction.	
CA-194	11.3.3.4	all	Te	Apply the resolution of the comment on 3.3.62. The name of the association itself is O.K. as is: permissible_value_meaning	Replace 'value_meaning' by 'concept_instance_meaning'. (multiple occurrences)	
CA-195	11.3.3.5	Para 2	Te	The description of the permissible_value_set association here and in clause 11.3.3.5, is inconsistent with the definition of permissible value in clause 3.3.91.	Either change the multiplicity of the association, or change the definition of permissible value, to make them consistent.	
CA-196	11.3.4.2	constraint #1	Ed	The abbreviation w.r.t. may not be obvious to non-native English speakers.	Expand the abbreviation as 'with respect to'.	
CA-197	11.3.4.2	constraint #3 paras 2, 3	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value_meaning' by 'concept_instance_meaning'. (multiple occurrences)	

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2   **Type of comment:**   **ge** = general   **te** = technical   **ed** = editorial

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

ISO electronic balloting commenting template/version 2001-10

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CA-198	11.4.2.1.2	para 1	Te	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Insert at the beginning: Unit_of_Measure is a class each instance of which models a *unit of measure*, the units in which associated values are measured.	
CA-199	11.5.2.4.2.1	definition	Ed	The font size of the text is inconsistent with the rest of the table	Correct the font size.	
CA-200	11.5.2.5.1	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Rewrite in the standard style.	
CA-201	11.5.2.5.2.1	definition	Ed	The font size of the text is inconsistent with the rest of the table	Correct the font size.	
CA-202	11.5.2.5.2.2	definition	Te	The definition is: "*notation* used to describe the *Derivation_Rule*". Rules should be 'specified, not described. See also 3.3.49.	Change 'describe' to 'specify'.	
CA-203	11.5.2.5.2.2	definition	Ed	The font size of the text is inconsistent with the rest of the table	Correct the font size.	
CA-204	11.5.2.6	para 1	Ed	The description does not conform to the standard style which begins: XXX is a class each instance of which models and xxx.	Rewrite in the standard style.	
CA-205	11.5.2.6	para 3 and Figure 11-5	Ed	Can we find a better term than 'inputter'?	None provided.	
CA-206	11.5.3	all	Ed	The description of the associations is not written in the standard style.	Rewrite in the standard style.	
CA-207	12	All	Te	Several name changes have been made in the metamodel (e.g. Designation.name to Designation.designation_sign). Should equivalent name changes be made to the basic attributes in clause 12, or is it more important to retain the names used in Edition 1?	None provided.	

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

ISO electronic balloting commenting template/version 2001-10

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CA-208	12.1	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-209	12.1	para 3 & Note	Ed	The references to clauses 5 through 10 should be 6 through 11.	Make the corrections.	
CA-210	12.2.1	item_identifier	Ed	There is a space missing after the dash.	Make the correction.	
CA-211	12.2.5	Note	Ed	There is only one note so it does not need to be numbered.	Remove the '1'.	
CA-212	12.8	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-213	12.8	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-214	12.8	attributes	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (multiple occurrences)	
CA-215	99-Annex A	various	Ed	Updates made to terms and definitions by other comments need to be reflected in Annex A.	Make the necessary updates.	
CA-216	99-Annex A	R	Ed	The reference for Registration_Authority is incorrect.	Change 8.1.2.4.4 to 8.1.2.5	
CA-217	99-Annex A	S	Ed	The reference for Submission_Record is incorrect	Change 8.1.2.7.5 to 8.1.2.8.	
CA-218	99-Annex A	V	Ed	The reference for value_domain_meaning association is incorrect	Change 11.3.3.5 to 11.3.3.6.	
CA-219	99-Annex B	Figure B-1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-220	99-Annex C C.2.7.9.1	2011 metamodel	Te	According to this Annex the basic attribute 'Layout of Representation' has no equivalent in the metamodel, but Value_Domain.value_domain_format seems to be equivalent.	Map 'Layout of Representation' to Value_Domain.value_domain_format.	

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

ISO electronic balloting commenting template/version 2001-10

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CA-221	99-Annex C C.2.10.1.1	definition	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (2 occurrences)	
CA-222	99-Annex C C.2.11	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-223	99-Annex C C.2.11.1	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-224	99-Annex C C.2.11.1.1	attribute name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning', and 'value meaning' by 'concept instance meaning'.	
CA-225	99-Annex C C.2.11.1.1	definition	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'.	
CA-226	99-Annex C C.2.11.1.1	table caption	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-227	99-Annex C C.2.11.1.2	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-228	99-Annex C C.2.11.1.2	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-229	99-Annex C C.2.11.2	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-230	99-Annex C C.2.11.2.1	attribute name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning', and 'value meaning' by 'concept instance meaning'.	
CA-231	99-Annex C C.2.11.2.1	definition	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (2 occurrences)	
CA-232	99-Annex C C.2.11.2.1	table caption	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-233	99-Annex C C.2.11.2.2	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	

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ISO electronic balloting commenting template/version 2001-10

Date: 2010-07-27	Document:

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CA-234	99-Annex C C.2.11.2.2	para 1	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning'.	
CA-235	99-Annex C C.2.11.3	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-236	99-Annex C C.2.11.3.1	attribute name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning', and 'value meaning' by 'concept instance meaning'.	
CA-237	99-Annex C C.2.11.3.1	definition	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (2 occurrences)	
CA-238	99-Annex C C.2.11.3.1	table caption	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-239	99-Annex C C.2.11.4	clause name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-240	99-Annex C C.2.11.4.1	attribute name	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value_Meaning' by 'Concept_Instance_Meaning', and 'value meaning' by 'concept instance meaning'.	
CA-241	99-Annex C C.2.11.4.1	definition	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'. (2 occurrences)	
CA-242	99-Annex C C.2.11.4.1	table caption	Te	Apply the resolution of the comment on 3.3.62.	Replace 'Value meaning' by 'Concept instance meaning'.	
CA-243	99-Annex D	various	Ed	Annex D maps classes and attributes between the second and third editions. Associations should also be mapped.	Add mapping of associations between Edition 2 and Edition 3. [Note, in Edition 2, associations were referred to as relationships, and were not adequately described.]	
CA-244	99-Annex F F.2	para 5, bullet 2	Te	Apply the resolution of the comment on 3.3.62.	Replace 'value meaning' by 'concept instance meaning'	
CA-245	99-Bibliography	[6]	Ed	The reference to COR1 includes FCD.	Remove the 'FCD'.	
CA-	99-	new	Ed	OWL-DL is mentioned in 9.1.2.2.1, but there is no	Add an entry for OWL-DL in the Bibliography.	

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ISO electronic balloting commenting template/version 2001-10

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
246	Bibliography			reference for it in the Bibliography		

<div align="center">END</div>

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ISO electronic balloting commenting template/version 2001-10

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
					ISO/IEC FCD 11179-3 Ed3	
001	JPN-P01-001		1-Major Technical	3.3.26 context, 7.3.2. 5 Context	Its definition should be reverted to Ed2 since there is no reason that it needs to be changed from Ed2 and the meaning "circumstances" are too general and ambiguous. There might be a lot of changes from ED2 that are not necessary. If they need not be changed, they should not e changed from the principle of consistency as a standard.	
002	JPN-P01-002		1-Major Technical	*Figure 5-2*	{complete, disjoint} (of Registered_Item) should be {disjoint}. Rationale: There might be a Registetered_Item that is not an Adminitered_Item nor an Attached_Item.	
003	JPN-P01-003		3-Major Editorial	*General Clause 6 -*	For each role of an association, its multiplicity should be specified in a main text, in addition to the figure for readers' convenience.	
004	JPN-P01-004		2-Minor Technical	Note 7.2.2.4.1 Descri ption of Slot	"IKV Slot" needs to be defined at clause 3.	
005	JPN-P01-005		4-Minor Editorial	Note 7.2.2.4.1 Descri ption of Slot	"ebXML" is too general for Slot. It should be ebXML RIM (see bibliography item [17])	
006	JPN-P01–006		2-Minor Technical	*Figure 9-1*	The multiplicity of "end" role of Link_End association should be changed from 2..* to 1..*. Rationale: Here are examples: tallerThanOrEqual(tallerOrEqual=Tony, shorterOrEqual=Tony) (A link between the same objects for a reflexive relation)	
007	JPN-P01-007		2-Minor Technical	*9.1.2.4.2 Description of Relation*	"A relation is a subset of the power set of RxUD" should be "A relation is a (?) sense in which concepts may be connected, via constituent roles" to be consistent with 3.3.117 relation.	
008	JPN-P01-008		2-Minor Technical	*9.1.2.4.2 Description of Relation*	Note 3 should be deleted. Rational: concept in MDR Part3 Ed3 has very broad meaning and any relation with any arity is a concept because Relation is a subclass of Concept.	
009	JPN-P01-009		2-Minor Technical	*9.1.2.4.2 Description of Relation*	Note 4 is strange because a relation and an assertion are different because a relation is a concept but an assertion is not. It should be allowed that a reflexive relation can simply be an instance of Relation.	
010	JPN-P01-010		2-Minor Technical	*9.1.2.5.2 Description of Relation_Role*	"an argument (element) of a relation" should be "an argument of a relation". Rationale: "element" here is differenr from "elements" in Definition of 9.1.2.4.3..1 arity	

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
011	JPN-P01-011		2-Minor Technical	9.1.2.6.2 Description of Link	"a member of a relation (not an instance of a relation" should be "an instance of a relation". Rationale: The difference between "member" and "instance" is not clear. If we see the examples at Table E-15, E-23, E-28, all the Links look instances of Relations.	
012	JPN-P01-012		1-Major Technical	9.1.3.7 relation_link association, Figure 9-1	relation_link asscoation should have assertion_term as its direct superclass, which is what we agreed on at WG2 London meeting and WG2_1375 Editor's WIP draft of FCD reflects but 32N1983 FCD does not.	
013	JPN-P01-013		2-Minor Technical	9.1.3.9 link_end_role association	The multiplicity of "source" role of link_end_role association should be specified as 0..* at 9.1.3.9 link_end_role association	
014	JPN-P01-014		2-Minor Technical	Figure 11-1	Multiplicity of "domain" should ne 1:1. Rationale: There is no reason that it needs to be changed from ed2.	
015	JPN-P01-015		1-Major Technical	11.2.2.1 Characteristic	It should be reverted to Property as in 4.11.1.2 of ED2 since there is no reason that it needs to be changed. If Characteristic is introduced as defined in ISO 1087-1, it needs to be associated with Concept, not limited to Data_Element_Concept. There might be a lot of changes from ED2 that are not necessary. If they need not be changed, they should not e changed from the principle of consistency as a standard.	
016	JPN-P01-016		4-Minor Editorial	Edition 2 metamodel object, Table D-xx: mapping Edition2 yy_zz to Edition3, Annex D	The column name "Edition 2 metamodel object" should be changed to "Edition 2 metedata object" because in ed2 the term "metamodel object" is defined and used but "metamodel object" is not defined.	
017	JPN-P01-017		4-Minor Editorial	Edition 2 metamodel object, Table D-xx: mapping Edition2 yy_zz to Edition3, Annex D	The column name "Edition 3 metamodel object" should be changed to "Edition 3 class" because in ed3 the term "class" is defined and used but "metamodel object" is not defined.	
018	JPN-P01-018		4-Minor Editorial	Edition 2 metamodel object, Table D-xx: mapping Edition2 yy_zz to Edition3, Annex D	All the metadata objects in edition 2 are referred by the names with "_"s. But, in edition2, the names of all the metadata object are specified using spaces rather than "_"s. They should be referred as the exactly same as in editions. For example, "Administered Item" in the column "Edition 2 metamodel object" at Table D-1 should be "Adminitered Item".	
019	JPN-P01-019		4-Minor Editorial	Edition 2 metamodel object, Table D-xx: mapping Edition2 yy_zz to Edition3, Annex D	All the attributes in edition 3 are referred by the names with spacess. But, in edition3, the names of all the attributes are specified using "_" rather than spaces. They should be referred as the exactly same as in edition 3. For example, "Registration_State.administrative note" at the	

SEQ #	Cmnt ID	See Also	Severity	Reference	Description	Addressed By
					row "8.1.2.6.2.4 " and the column "Edition 3 metamodel object" at Table D-1 should be "Registration_State.administrative_note". (i.e. add "_" between "administrative" and "note".)	
020	JPN-P01-020		4-Minor Editorial	Edition 3 metamodel object, Table D-14 and D-15, Annex D	"Definitions(6.2.2.4)" should be "Definitions(7.3.2.4)". "Designations(6.2.2.3)" should be "Designations(7.3.2.3)". "Designatable_Item(6.2.2.2)" should be "Designatable_Items(?) (7.3.2.2)". "Context(6.2.2.5)" should be "Contexts(?) (7.3.2.5)". "definition_lamguage (6.2.2.4.2.2)" should be "definition_lamguage (7.3.2.4.2.2)". "desiganation_lamguage (6.2.2.3.2.2)" should be "desiganation_lamguage (7.3.2.3.2.2)".	
021	JPN-P01-021		2-Minor Technical	*Annex E* *Table E-1*	Since Relation is a subclass of Concept, for example in UML, Association should also be listed in Concept. (This comment is applicable to Concepts of all the examples on Annex E.)	
022	JPN-P01-022		1-Major Technical	*Annex E* *All the examples*	All over the examples, it needs to be noted that, for example, ms:Married itself is not a Concept, but a designation of a Concept.	
023	JPN-P01-023		1-Major Technical	*Annex E* *Table E-7*	These are not examples of Enumrated_Conceptual_Domain, but Enumereted_Value_Domain. What can be a Enumerated_Conceptual_Domain is what has the notions specified by ms:Single or ms:Married as its members. Need to explain what ms:Single and ms:Married are in MDR Part3 Ed3.	

End of Paper

Comments on FCD Text For: ISO/IEC FCD 11179-3 Information technology - Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes 3rd Edition, Document SC32 N1983Ta	Date:2010-07-15	Document: **SC32/Nxxxx**

0	1	2	(3)	4	5	(6)	(7)
#	NB	Clause No./ Subclause No./ Annex	Paragraph/ Figure/Table/ Note #	Com-ment type	Comment (justification for change) by the NB	Proposed change by the NB	Secretariat Comments
1	US	3.3.29		ed	Remove Editor's Note #1 as no longer necessary, add some text to clarify. EDITOR'S NOTE #1. (Information) The definition from ISO/IEC 11179-3:2003 (Edition 2) has been replaced by that from ISO/IEC 2382-4:1999, because of feedback that the Edition 2 definition was not useful. **data element** <in organization of data> unit of **data** that is considered in context to be indivisible. Example: The data element "age of a person" with values consisting of all combinations of 3 decimal digits. [ISO/IEC 2382-4:1999, 04.07.01]	The revision is acceptable. The note can be dropped. Below the reference to ISO/IEC 2382, add the following text to clarify the definition:: Note: the definition states that a data element is "indivisible" in some context. This means that it is possible that a data element considered indivisible in one context (e.g., telephone number) may be divisible in another context, (e.g., country code, area code, local number).	
2	US	3.3.55		te	The two uses of the word designation are confusing.	For the contextualized version, modify the note from: "See also **designation** (3.3.54)" to "This contextualized designation is as specified in 3.3.54 or a name 3.3.80"	
3	US	3.3.80		te	The definition of name is not right. It is inconsistent with the definition of designation.	Replace the definition with: Representation of an object by a sign which denotes it.	

1 NB = National body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the Secretariat editing unit are identified by **) **page 1 of 3**

2 Type of comment: ge = general te = technical ed = editorial   NOTE Columns 1, 2, 4, 5 are compulsory.   *ISO electronic balloting commenting template (enhanced 2002-08)*

Comments on FCD Text For: **ISO/IEC FCD 11179-3** Information technology - Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes 3rd Edition, Document SC32 N1983Ta			Date:2010-07-15	Document: **SC32/Nxxxx**

0	1	2	(3)	4	5	(6)	(7)
#	NB	Clause No./ Subclause No./ Annex	Paragraph/ Figure/Table/ Note #	Com-ment type	Comment (justification for change) by the NB	Proposed change by the NB	Secretariat Comments
4	US	3.3.80		te	Identifiers are not adequately related to name.	Add a note that an identifier is a kind of name. Identifier also ought to be defined.	
5	US	3.3.81		te	A namespace is not just for designations. Also, business need is not defined.	Replace the definition with the following: set of names for a defined purpose.	
6	US	3.3.82		te	A naming convention is not just for designations.	Replace the definition with the following: specification of how names are formulated.	
7	US	4.4.2 5.2 5.6	Paragraph 1 Paragraph 4 Paragraph 2	ed	The spelling is inconsistent for "Implementors"/"implementers".	Our review of dictionaries shows both spellings are acceptable. Merriam Webster has the spelling both ways. We could not find the term in the OED. ISO has standards with both spellings. Therefore, pick one and use it consistently.	
8	US	5.5.1		ed	The reference "See 4 Conformance." does not follow the directives.	Change to: "See clause 4." If there are other references which do no conform to the directives, correct them as well.	
9	US	5.2	2, line 5 (also see line 3)	ed	The phrase "among systems tools and information registries" sounds awkward.	Should it be: "system tools" or "systems, tools, and information registries", or just left as is? On Google, "system tools" is much more commonplace.	
10	US	5.5.2	Para 3	ed	"accordng the" is not correct.	Change to: "according to the". Note the spelling correction to the word "according".	

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2 Type of comment: ge = general te = technical ed = editorial   NOTE Columns 1, 2, 4, 5 are compulsory.   *ISO electronic balloting commenting template (enhanced 2002-08)*

Comments on FCD Text For: ISO/IEC FCD 11179-3 Information technology - Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes 3rd Edition, Document SC32 N1983Ta	Date:2010-07-15	Document: SC32/Nxxxx

0	1	2	(3)	4	5	(6)	(7)
#	NB¹	Clause No./ Subclause No./ Annex	Paragraph/ Figure/Table/ Note #	Com-ment² type	Comment (justification for change) by the NB	Proposed change by the NB	Secretariat Comments
11	US	5.6	Page 30	ed	The "and" is missing before "statistical data,"	Change to: "and statistical data,"	
12	US	7.1	Before the table	ed	As a consequence of the comments on 3.3.80 and 3.3.82, some clarification is needed at this point.	Explain that both designation and scoped identifier are kinds of name.	
13	US	11.1.1 & 11.1.2.1	Line 1 Line 1	ed	The references to Figure 10-1 are incorrect.	The reference should be to Figure 11-1.	

Template for comments and secretariat observations

	Date: 2010-07-30	Document: ISO/IEC FCD 11179-3

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
**	General		ed	6.6.7.2 of the ISO/IEC Directives, Part 2, states that for references to the document as a whole in its own text, the form "this part of ISO/IEC ****" shall be used, except in the introductory texts for the "Normative references" and the "Terms and definitions", and in any patent notices.	Throughout the document, except in the introductory texts for the "Normative references" and the "Terms and definitions", and in any patent notices, change "ISO/IEC 11179-3", "this document" and "this standard" to "this part of ISO/IEC 11179".	
**	General		ed	The editor's notes should not appear in the published version of the International Standard.	All editor's notes shall be deleted before submission of the Final Draft International Standard.	
**	General		ed	6.5.1 of the ISO/IEC Directives, Part 2, states that a single note/example in a clause or subclause shall be preceded by "NOTE"/"EXAMPLE", placed at the beginning of the first line of the text of the note/example.	Throughout the document, change "Note:" to "NOTE" and "Example:" to "EXAMPLE".	
**	General		ed	6.6.5.3 of the ISO/IEC Directives, Part 2, states that figures shall be designated "Figure" and numbered with Arabic numerals, beginning with 1. This numbering shall be independent of the numbering of the clauses and of any tables. A single figure shall be designated "Figure 1".	Renumber all figures in accordance with 6.6.5.3 of the ISO/IEC Directives, Part 2.	
**	General		ed	6.6.6.2 of the ISO/IEC Directives, Part 2, states that tables shall be designated "Table" and numbered with Arabic numerals, beginning with 1. This numbering shall be independent of the numbering of the clauses and of any figures. A single table shall be designated "Table 1".	Renumber all tables in accordance with 6.6.6.2 of the ISO/IEC Directives, Part 2.	
**	General		ed	6.6.6.2 of the ISO/IEC Directives, Part 2, states that table designations and titles shall be centred horizontally above the table. In ISO/IEC 1179-3, they are placed below the table.	Place the table designations and titles horizontally above the table to which they refer.	

1   **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by ******)

2   **Type of comment:**   **ge** = general   **te** = technical   **ed** = editorial

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

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**	General		ed	Although figure designations and titles are present in the document, there are no figures.	Please ensure that figures are present in the submission of the Final Draft International Standard.	
**	Clause 1		ed	The scope shall consist of a series of statements of fact describing the content of the document.	Delete subclause 1.1. The Scope should then be redrafted to consist of only the text currently contained in 1.2 and 1.3.	
**	1.4		ed	Summary of changes from the first edition shall be given in the Foreword.	Delete subclause 1.4 and move its content to the Foreword.	
	1.5		ed	The relationship to other parts is already correctly given in the Foreword.	Delete subclause 1.5.	
**	Clause 2		ed	In accordance with 6.2.2 of the ISO/IEC Directives, Part 2, documents which are only cited in an informative manner shall not be included in the Normative references. Other than ISO/IEC 11179-6, none of the references listed in Clause 2 are referred to in a normative way.	Move all references listed in Clause 2, except ISO/IEC 11179-6, to the Bibliography.	
**	Clause 3		ed	The title to Clause 3 does not accurately reflect its content.	Change the title from "Definitions" to "Terms, definitions and abbreviated terms".	
**	Clause 3		ed	The wrong introductory text has been used.	Delete all of 3.1 (including the title "Overview") and replace with the following: **"3 Terms and definitions** For the purposes of this document, the following terms, definitions and abbreviated terms apply. NOTE 1 An alphabetical list of all terms used in this part of ISO/IEC 11179 is included in Annex A. NOTE 2 Some definitions listed in this clause have one or more notes; some have a reference to another standard from which the definition is taken; and some have both notes and a reference. Where a definition has	

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					both a note and a reference, notes that precede the reference come from the referenced source; notes that follow the reference have been added by this part of ISO/IEC 11179." Renumber 3.2 as 3.1. Change the text that is immediately below the title into a note. Renumber all of the terms and definitions that follow (e.g. 3.2.1 would become 3.1.1). Renumber 3.3 as 3.2. Change the text that is immediately below the title into a note. Renumber all of the terms and definitions that follow (e.g. 3.3.1 would become 3.2.1). Renumber 3.4 as 3.3. Change the title to "Abbreviated terms". Delete the introductory sentence that is below the title.	
**	Clause 3		ed	D.1.5.3 of the ISO/IEC Directives, Part 2, states that the form of a definition shall be such that it can replace the term in context. It shall therefore start with a lower-case letter (except for any capital letters required by the normal written form in running text), shall not be followed by a full stop, shall not start with a definite or indefinite article, and shall not be more than one sentence.	Redraft the terms and definitions in accordance with D.1.5.3 of the ISO/IEC Directives, Part 2.	
**	Clause 3		ed	D.1.4 of the ISO/IEC Directives, Part 2, provides examples for the presentation of terms and definitions that have been taken from or adapted from other documents: "When the repetition of a definition is necessary, an informative reference shall be made to the document from which it is reproduced.	Redraft the references to the terms and definitions in accordance with D.1.4 of the ISO/IEC Directives, Part 2.	

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				3.2.11 **international rubber hardness degree** **IRHD** measure of hardness, the magnitude of which is derived from the depth of penetration of a specified indentor into a test piece under specified conditions [ISO 1382:1982]		
				Where a standardized definition in another subject field has to be adapted, an explanation shall be given in a note.		
				1.1.2.3 **natural language** language which evolves and whose rules reflect usage without necessarily being explicitly prescribed NOTE Adapted from ISO/IEC 2382-7:1989."		

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