Title: ISO Updates to Metadata – Draft Changes to Edition 3.0.0

S-100 Maintenance - Change Proposal Form (Draft)

This form has been prepared for discussion purposes at TSM5 and should be extended before finalization.

Organisation	Raphael Malyankar	**Date**	8/24/2017
Contact	Raphael Malyankar	**Email**	raphaelm@portolansciences.com

Change Proposal Type *(Select only one option)*

1.Clarification	2.Correction	3.Extension
		X

Location (*Identify all change proposal locations*)

S-100 Version No.	Part No.	Section No.	Proposal Summary
3.0.0	4a	2.2	Note about backwards compatibility
	4a	various	miscellaneous changes to terminology and/or semantics of metadata elements or attributes: fileIdentifier -> metadataIdentifier hierarchyLevel -> resourceType core metadata -> recommended metadata etc., etc.
	4a	various	PT_Locale used for localisation, grouping language and characterset attributes
	4a	various	Updated types for information about organizations and individuals; this is used for citation of responsible parties and contact information
	4a	5.4	various changes minimum metadata requirements
	4a	5.5	miscellaneous changes to recommended metadata for geographic datasets
	4a	5.6.5	Minor changes to specification of extensions
	4a	5.7	New section on metadata for service discovery
	App. 4a-A	4a-A-2	New diagram for service metadata classes
	App. 4a-D	Figure 4a-D-4	Updated to reflect use of defaultLocale and otherLocale (type PT_Locale) for localisation of information
	App. 4a-D	Figure 4a-D-5	New diagram for service discovery metadata

Change Proposal

Summary of updates for transitioning S-100 Edition 3.0.0 to ISO 19115-1 and 19115-3 and adding services metadata.

Change Proposal Justification

The new version of ISO 19115 (ISO 19115-1:2014 and 19115-3) made several changes to metadata. It will also be necessary to update S-100 for use with the service or transactional mode of data exchange instead of the exchange set (transfer set).

What parts of the S-100 Infrastructure will this proposal affect?

☐ S-100 Feature Concept Dictionary Interface or Database
☐ S-100 Portrayal Register
☐ S-100 Feature Catalogue Builder
☐ S-100 Portrayal Catalogue Builder
☒ S-100 UML Models

Please send completed forms and supporting documentation to the secretary S-100WG.

ISO summary of changes (Annex G ISO 19115-1)

Revisions by package:
1) The Data quality information package was moved to ISO 19157. The association "dataQualityInfo" remains to support the inclusion of data quality metadata.
2) Metadata about metadata
   a) To address past misuse/ambiguity the identifiers for the metadata and parent metadata were made more specific using a CI_Citation which now includes an on-line resource;
   b) HierarchyLevel attributes were replaced by an MD_Scope class to improve the description of the scope of the metadata;
   c) dateStamp was replaced with dateInfo to allow other types of metadata date information to be recorded in addition to creation date;
   d) Language was changed to defaultLocale to allow the description of the character set as well as the language and optionally the country of the language.
3) Identification information
   a) Attributes required by both MD_DataIdentification and SV_ServiceIdentification were moved to MD_Identification to remove duplication and improve functionality;
   b) MD_KeywordClass was added to allow further categorization of keywords;
   c) Attributes added to improve functionality.
4) Constraint information
   a) New attributes added to improve the description of constraints.
5) Lineage information
   a) New attributes added to improve the description of LI_Source and LI_ProcessStep.
6) Maintenance information
   a) Attributes were replaced to provide a more flexible and unambiguous description of
7) maintenance dates and scope.
8) Spatial representation
   a) New attributes added to improve the description of the dimension of a gridded spatial representation.
9) Reference system information
   a) A new attribute and codelist added to provide for the identification of the type of reference system used.
10) Content information
   a) A new class MD_AttributeGroup was added which contains "contentType" moved from
11) MD_CoverageDescription, which allows content types to be part of groups of attributes;
   a) A new class, MD_SampleDimension, was added and the model reorganized to improve the description of coverages;
   b) The ability to reference or include a feature catalogue was added.
12) Distribution information
   a) Attributes added to improve functionality.
13) Citation and responsible party information
   a) Attributes added to CI_Citation to improve functionality;
   b) MD_ResponsibleParty was refactored to allow flexibility in its use/reuse.
14) Multilingual text information
   a) This package was added unchanged from ISO/TS 19139.