

Metadata Updates

S-100WG3, April 10-13

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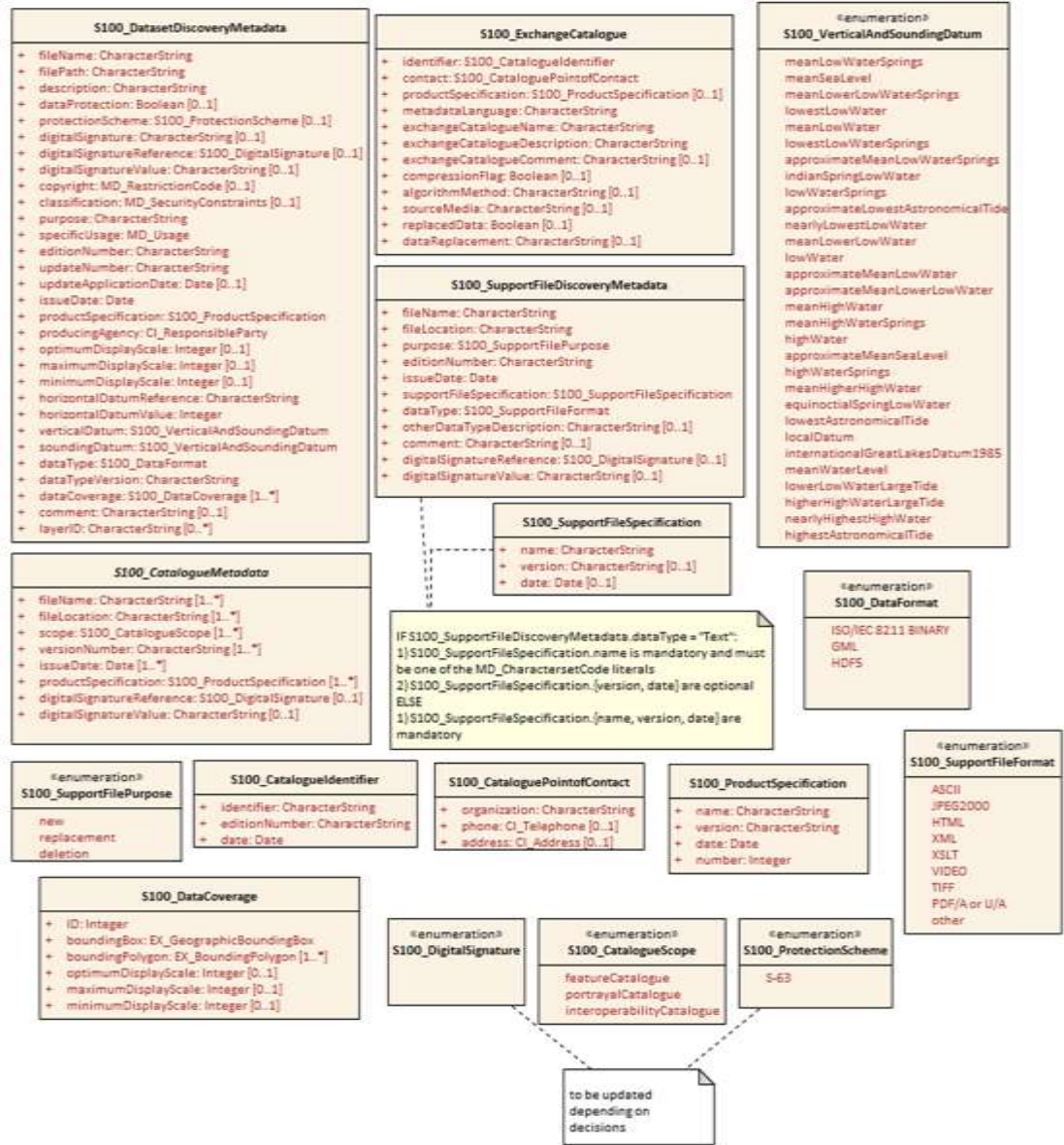
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Work performed under NOAA sponsorship

Overview

- Implementation of proposals accepted at S-100 WG2
- Changes arising from S-104, S-111, S-122, S-123 experiences
 - New metadata elements arising from NPUB product specification development
 - Make vertical and sounding datums optional
- Updates arising from new editions of ISO 19115: ISO 19115-1:2014 & 19115-3:2015
 - ISO 19115-1 and 19115-3 replace ISO 19115 & 19139
 - Terms, metadata element names, metadata classes
 - Metadata for services

Figure 4a-D-4 updated



New proposed experience-based changes

- Add XML to S100_DataFormat in Part 4a and Part 12 for interoperability.
- Make vertical datum and sounding datum optional.
- Add elements describing the metadata discovery resource.
- Add a literal describing interoperability catalogue information to S100_CatalogueScope in order to describe interoperability catalogues.
- Literals for the new enumerations agreed at S100WG2 need to be determined.
- Redundant attribute digitalSignature in S100_DatasetDiscoveryMetadata should be removed and a “none” or “unsigned” literal added to S100_DigitalSignature; if digitalSignature is retained, its type should be Boolean.
- Mandatory digital signature for catalogues in table (in text) should become optional like Figure 4a-D-4.
- List of compression algorithms started for S100_exchangeCatalogue.algorithmMethod.

Changes related to new version of ISO 19115

ISO 19115 changes

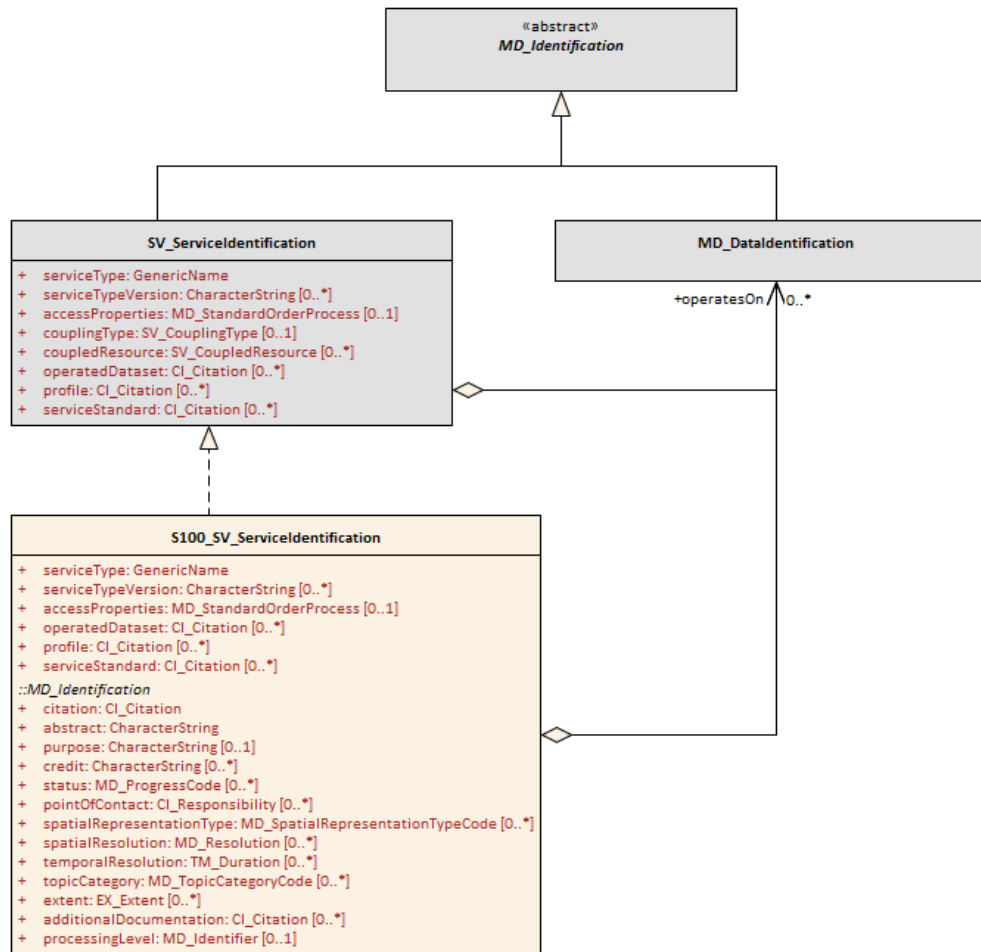
Part No.	Section No.	Proposal Summary
4a	2.2	Note about backwards compatibility
4a	various	Miscellaneous changes to terminology and/or semantics of metadata elements or attributes: <ul style="list-style-type: none">• fileIdentifier -> metadataIdentifier• hierarchyLevel -> resourceType• core metadata -> recommended metadata• etc., etc.
4a	various	PT_Locale used for localisation, grouping language and charset 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 table for service identification metadata

Examples of terminology update effects

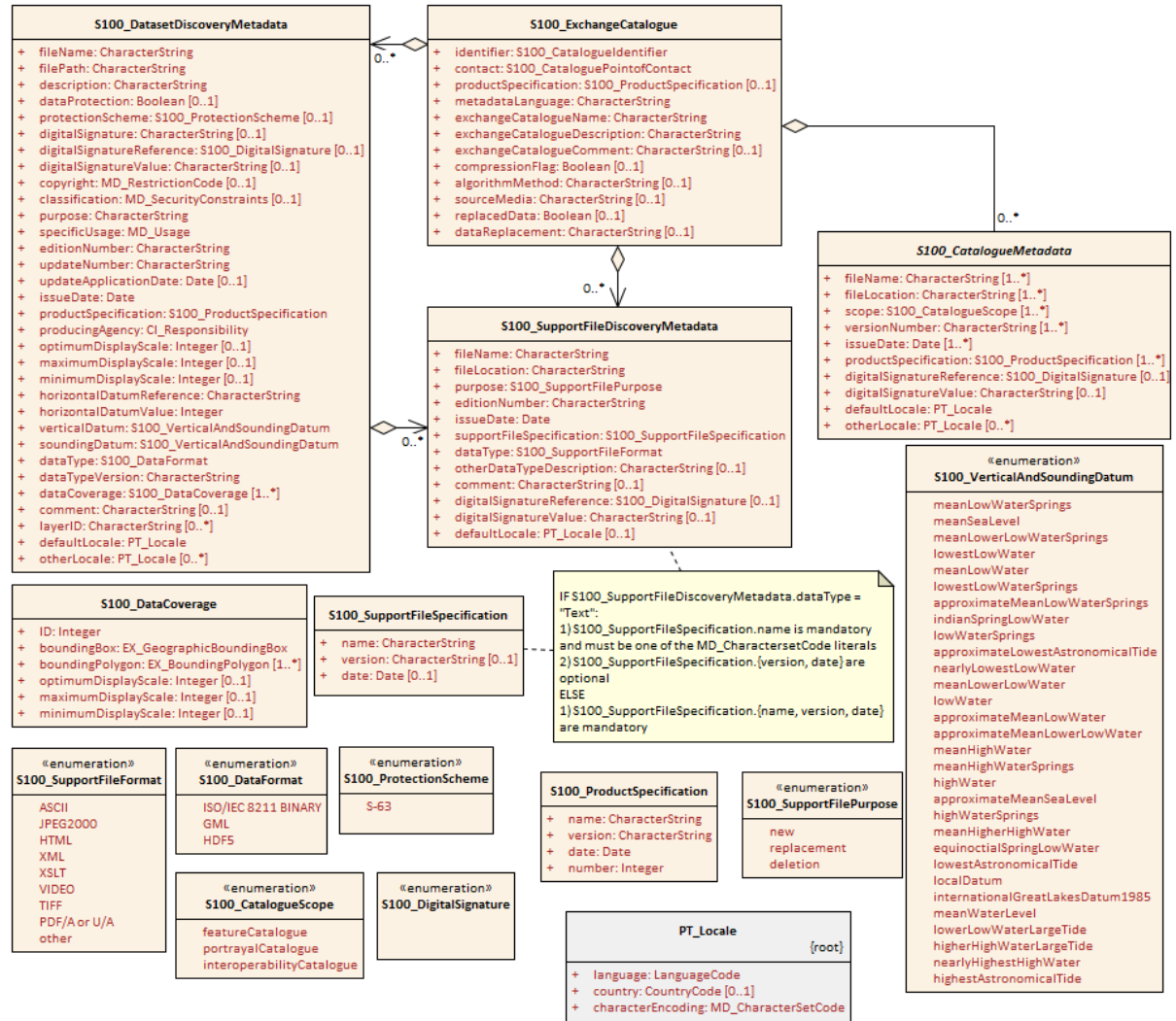
Table 4a-1 Minimum metadata for geographic datasets

Name	Path	Datasets	Other resources
Metadata file identifier	MD_Metadata.metadataIdentifier > MD_Identifier.code	M	M
Metadata language	MD_Metadata.defaultLocale > PT_Locale.language	C (documented if not defined by the encoding process)	C (same as for dataset)
Metadata character set	MD_Metadata.defaultLocale > PT_Locale.characterEncoding	C (documented if ISO 10646- 1, is not used and not defined by the encoding process)	C (same as for dataset)
Metadata file parent identifier	MD_Metadata.parentMetadata > CI_Citation.identifier	C (documented if the hierarchy of a higher level exists)	C (same as for dataset)
Party responsible for the metadata information	MD_Metadata.contact > CI_Responsibility.CI_Individual (table 4a-2) or MD_Metadata.contact > CI_Responsibility.CI_Organization (table 4a-3)	M (either organization or individual must be documented)	M (same as for dataset)
Date(s) associated with the metadata	MD_Metadata.dateInfo > CI_Date	M (creation date required, other dates may be provided)	M (same as for dataset)
Resource default language	MD_Metadata.identificationInfo > MD_DataIdentification.defaultLocale > PT_Locale.language	M	C (only used if MD_DataIdentification has been used)
Resource default character set	MD_Metadata.identificationInfo > MD_DataIdentification.defaultLocale > PT_Local.characterEncoding	C (documented if UTF-8 is not used)	C (documented if UTF-8 is not used)
Name of the scope/type of resource for which the metadata is provided	MD_Metadata.metadataScope > MD_MetadataScope.resourceScope > MD_ScopeCode (codelist – ISO 19115-1)	M (default = “dataset”)	M
Description of scope of resource for which the metadata is provided	MD_Metadata.metadataScope > MD_MetadataScope.name	O	O

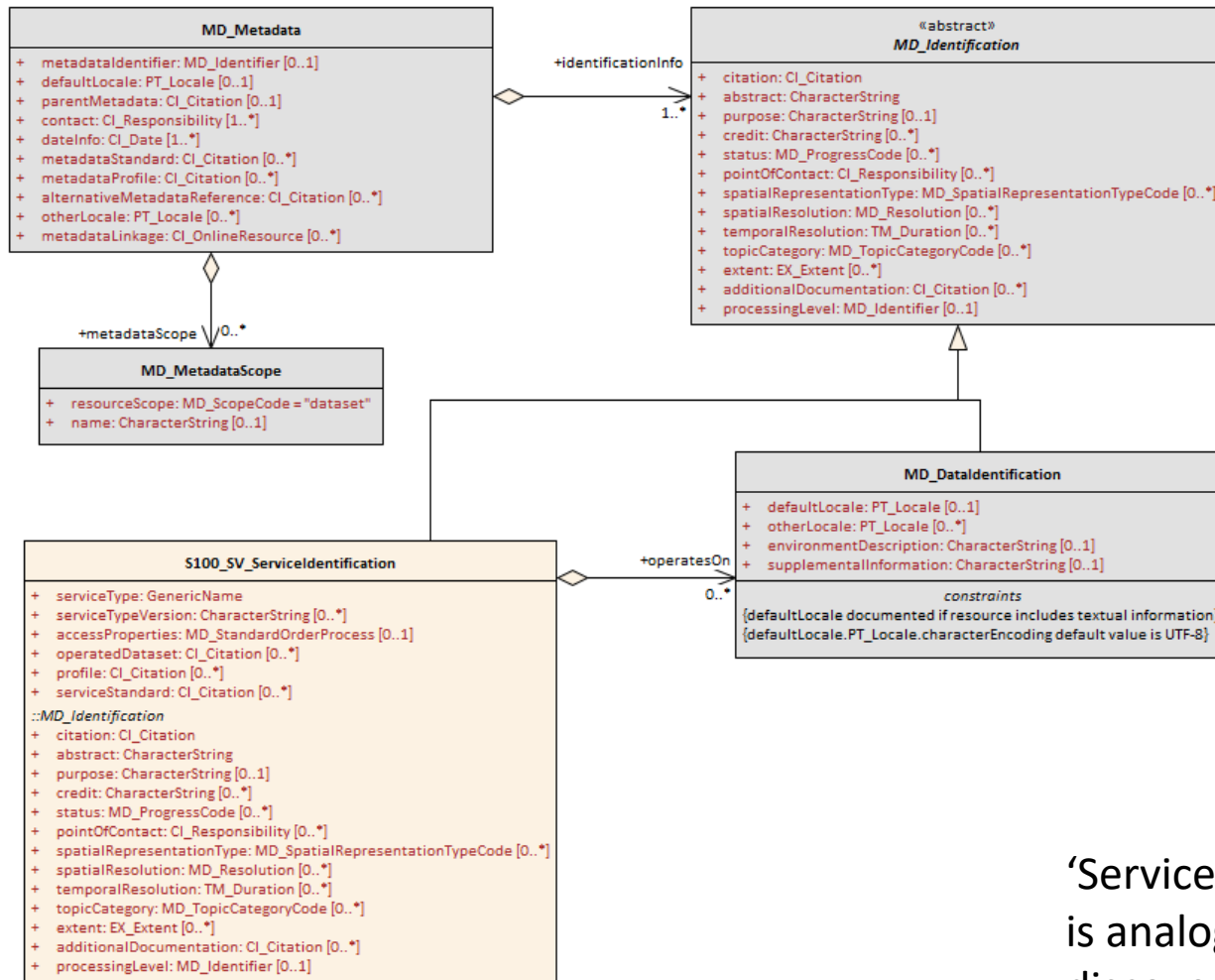
New service metadata class in relation to ISO classes



Re-drawn Figure 4a-D-4 showing relationships



Proposed discovery metadata for services



‘Service discovery metadata’ is analogous to the current discovery metadata, but for services