|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | rmm | 4a-1 | para. 1 | ed | 2nd sentence - “about about” | Delete second “about” |  |
|  | rmm | 4a-2.1 | para. 1 | ed | ISO 19115 was replaced with ISO 19115-1 in 2014 and S-100 adopted 19115-1 in 2016. | Replace phrase “mainly in ISO 19115 Geographic information - Metadata”  with  “ISO 19115-1 Geographic information – Metadata – Part 1 - Fundamentals, ISO/TS 19115-3:2016, Geographic information - Metadata - XML schema implementation for fundamental concepts” |  |
|  | rmm | 4a-4.1 | para 4, 1st sentence | ed | S-100 uses ISO 19115-3, not ISO 19115. | The above diagram illustrates the conceptual correspondence between data exchange provisions in ISO 19115-3 and S-100 standards |  |
|  | rmm | 4a-4.1 | Caption, Figure 4a-D-2 | ed | Markup comment refers to 4a-2.5 instead of 4a-4.2 | Correct comment to refer to 4a-4.2 |  |
|  | rmm | 4a-4.2 | Enumerated list, #5 | ed | S-100 metadata is based on ISO 19115-1/3, not ISO 19115. | Individual data files, such as base dataset, update files or detailed ISO 19115-1/2/3 metadata may be optionally placed in their own subfolders or grouped together |  |
|  | rmm | 4a-4.3 | para. 1, 1st sentence | ed | The “XXXX enumeration” is defined in a table in clause 4a-4.5. Revise the parenthetical remark to refer to that table. | (defined by the S100\_SupportFileFormat enumeration in clause 4a-4.5). |  |
|  | rmm | 4a-4.4 | para 1, last sentence | ed | S-100 metadata is based on ISO 19115-1/3, not ISO 19115. | “…any references to ISO 19115-1/2/3 dataset metadata…” |  |
|  | rmm | 4a-4.5 | S100\_ExchangeCatalogue | ed | **catalogueDiscoveryMetadata**: Extraneous hyphens after name. | Delete extraneous hyphens |  |
|  | rmm | 4a-4.5 | S100\_DatasetDiscoveryMetadata | ed | **datasetID**: Datatype mrn is not defined in Part 1 | Harmonize with referenceID attribute.  Type: URN  Remark: The URN must be an MRN |  |
|  | rmm | 4a-4.5 | S100\_DatasetDiscoveryMetadata | ed | **specificUsage**: Remark - the navigational purpose is now a separate attribute | Update current remark. (I don’t recall what specificUsage represents now so don’t have a substitute remark…) |  |
|  | rmm | 4a-4.5 | S100\_DatasetDiscoveryMetadata | ed | **producingAgency**: Remark refers to Table 4a-2, which is not in this draft. Ed. 4.0.0 allowed both CI\_Organisation and CI\_Individual, and the remark was “See Tables 4a-2 and 4a-3”. | Add table describing which elements of CI\_Organisation are allowed (Table 4a-X2 - Organisations, appended to these comments). Change remark to reference that table. |  |
|  | rmm | 4a-4.5 | S100\_DatasetDiscoveryMetadata | te | **epoch**: Use of so-called “decimal date” (e.g., “2005.0”) to represent the epoch of a CRS is common practice. Common practice for vertical CRS seems to be different (by a range, e.g., “1983-2001”). For high precision it may be necessary to expand how CRS are indicated in metadata. This will require some discussion and an S-100 clarification or extension. | TBD, perhaps as part of the discussion of the SE paper on geodetic references.  For now, I recommend placing the comment in column (6) in the file as a Word comment on “epoch”. WG6 can decide if action is needed for Edition 5.0 or later. |  |
|  | rmm | 4a-4.5 | S100\_DatasetDiscoveryMetadata | ed | **metadataPointOfContact**: Type column allows either CI\_Individual or CI\_Organisation. Tables 4a-2 and 4a-3, which documented the structure of those types in Ed. 4.0.0, are missing in this draft. | Add table describing which elements of CI\_Individual are allowed (Table 4a-X1 - Individuals, appended to these comments) The table for CI\_Organisation would be needed for producingAgency.  Add remark referencing both tables. |  |
|  | rmm | 4a-4.5 | S100\_DatasetDiscoveryMetadata | ed | **navigationPurpose**: The type should be a named enumeration like the other enumeration attributes. | Change type to S100\_NavigationPurpose.  Add table for S100\_NavigationPurpose (appended to the end of these comments). |  |
|  | rmm | 4a-4.5 | S100\_DigitalSignatureReference | ed | This table is moving to Part 15. | Mark for deletion. |  |
|  | rmm | 4a-4.5 | S100\_DigitalSignatureValue | ed | This will be a black box in this Part, the digital signature will be documented in part 15. | Mark for deletion. |  |
|  | rmm | 4a-4.5 | S100\_VerticalCRS | ed | Attribute **axis**: Can refer to Part 6 to document CS\_CoordinateSystemAxis and define which of its attributes are actually used for a vertical CRS.  Part 6 documents CS\_CoordinateSystemAxis and CS\_AxisDirection. Part 1 contains the UML for S100\_UnitOfMeasure, which is used by CS\_CoordinateSystemAxis as defined in Part 6.  As an S-100 variation on the ISO type. CS\_CoordinateSystemAxis should technically have an S100\_ prefix in Part 6.  Part 1 should have a documentation table for S100\_UnitOfMeasure. | Proposed remark:  See Tables 6-9 & 6-10 in Part 6.   * The optional attributes minimumValue, maximumValue, and rangeMeaning in Table 6-9 are not used. * axisDirection must be either “up” or “down”.   See Part 1 §1-4.5.3.5 for S100\_UnitOfMeasure.   * unitOfMeasure.name must be “metre”, in lower case * unitOfMeasure.symbol (if encoded) must be “m”, in lower case |  |
|  | rmm | 4a-4.5 | S100\_SupportFileDiscoveryMetadata | ed | **compressionFlag**: Remark should use actual values.  Recommend that all Booleans in metadata use 1/0. | 1: compressed  0: not compressed |  |
|  | rmm | 4a-4.5 | S100\_SV\_ServiceIdentification | ed | S-100 4.0.0 Part 4a also described metadata for services. The relevant UML diagram in Ed. 4.0.0 is in Appendix 4a-A (Figure 4a-A-2) but from this draft but the table has been | Move this table to whichever Part or Appendix Figure 4a-A-2 (from Edition 4.0.0) ends up in.  Delete table S100\_SV\_ServiceIdentification from this Part. |  |
|  |  |  |  |  |  |  |  |

Table 4a-X1 Individuals (restriction of CI\_Individual from ISO 19115-1)

| **Name** | **Path** | **Datasets** | **Other resources** |
| --- | --- | --- | --- |
| Name of the individual | CI\_Individual.name | **C** *(documented if ‘positionName’* and *‘partyIdentifier’ not documented)* | **C** *(same as for dataset)* |
| Position of the individual in an organization | CI\_Individual.positionName | **C**  *(documented if ‘name’ and ‘partyIdentifier’* *not documented)* | **C**  *(same as for dataset)* |
| Contact information for the individual | CI\_Individual > contactInfo > CI\_Contact | **M**  (see note 2) | **M**  (see note 2) |
| Identifier for the party | CI\_Individual.partyIdentifier | **C**  *(documented if ‘name’ and ‘positionName’ not documented* | **C**  *(same as for dataset)* |

Table 4a-X2 Organisations (restriction of CI\_Organisation from ISO 19115-1)

| **Name** | **Path** | **Datasets** | **Other resources** |
| --- | --- | --- | --- |
| Name of the organisation | CI\_Organisation.name | **C** *(documented if ‘positionName’ not documented* – see Note 1*)* | **C** *(same as for dataset)* |
| Position of an individual in the organisation | CI\_Organisation.positionName | **C**  *(documented if ‘name’ not documented* – see Note 1*)* | **C**  *(same as for dataset)* |
| Contact information for the organisation | CI\_Organisation.contactInfo > CI\_Contact | **M**  (see note 6) | **M**  (see note 6) |
| Identifier for the party | CI\_Organisation.partyIdentifier | **C**  *(documented if ‘name’ and ‘positionName’ not documented* | **C**  *(same as for dataset)* |

NOTE 1 S-100 restricts ISO 19115-1 in that documenting the ‘logo’ attribute of CI\_Organisation is not sufficient to allow omission of both ‘name’ and ‘positionName’.

NOTE 2 At least one of CI\_Contact attributes phone / address / onlineResource / contactInstructions must be documented.

S100\_NavigationPurpose

| **Role Name** | **Name** | **Description** | **Code** | **Remarks** |
| --- | --- | --- | --- | --- |
| Enumeration | S100\_NavigationPurpose | The purpose of the Dataset | - |  |
| Value | port | For port and near shore operations | 1 | - |
| Value | transit | For coast and planning purposes | 2 | - |
| Value | overview | For ocean crossing and planning purposes | 3 | - |