

Title: Part 10c Metadata File Name**S-100 Maintenance - Change Proposal Form**

Organisation	Portolan Sciences LLC	Date	21 Feb. 2024
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*)

No.	S-100 Version No.	Part No.	Section No.	Proposal Summary
1	5.2.0	10c	9.4	Table 10c-6 Embedded metadata (carrier metadata) in root group: Make the HDF5 attribute naming the external metadata file optional.

Change Proposal

Revisions to Table 10c-6 in red below

23	Metadata	metadata	0..1	String	MD_Metadata.fileIdentifier Name of XML metadata file (clause 10c-12). Ref. S-100 Part 8. Must be present and populated if an ISO XML metadata file describing this dataset is included in the exchange set; must be omitted otherwise.
----	----------	----------	------	--------	--

Change Proposal Justification

- 1) The *metadata* attribute in the root group was intended for indicating the name of an accompanying ISO metadata file, but Phase 1 implementations for ECDIS do not use ISO metadata files, which makes this attribute superfluous. **Making it optional allows product specifications to leave it out and therefore avoid an unnecessary attribute and validation check.**
- 2) S-100 Ed. 5.2.0 Figure 8-19 (Figure 1 below) has *metadata* as an optional attribute of S100_IF_Collection, but Part 10c Table 10c-6 has it as a mandatory attribute of the root group in the HDF5 encoding. **This proposal aligns Part 10c with Part 8.**
- 3) While Editions 1.x of HDF5 product specifications prescribe use of the empty string as the value of the *metadata* attribute when no ISO Metadata file is present in order to maintain consistency with S-100 Table 10c-6, an implementer has reported

difficulties with this in one language/framework. **This proposal resolves that implementation issue** by allowing the attribute to be omitted altogether when no ISO metadata file is present.

The revisions to S-100 Part 10c-6 have been endorsed by the S-102 PT at S-102 PT16 and TWCWG at TWCWG8.

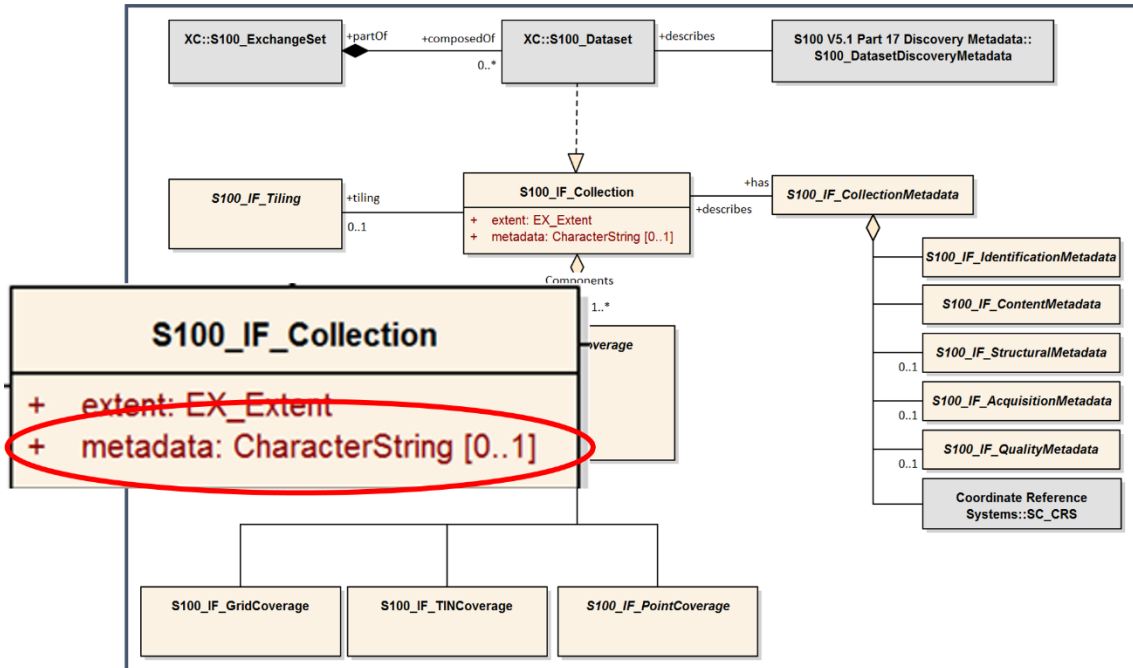


Figure 1. S-100 Figure 8-19

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
- S-100 GitHub Schemas

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