



PRIMAR[®]

PRIMAR S-100 5.0.0 Change Proposals

Various minor Corrections to S-100 Part 8_10a_10c and 17

Svein Skjaeveland



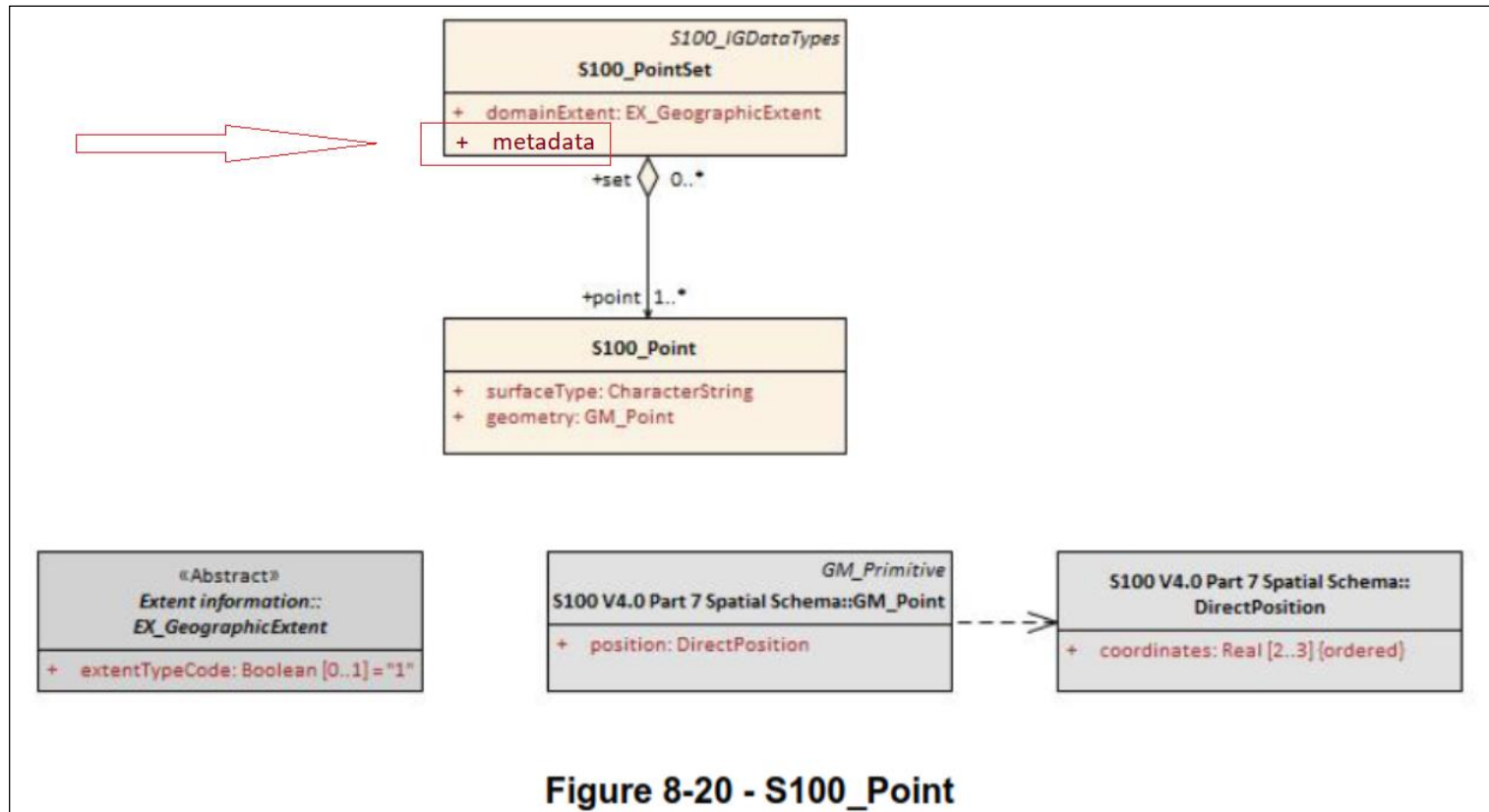
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Issues listed

- 8-8.1 Figure 8-20: attribute “metadata” is missing from the class S100_PointSet in figure 8-20
- 8-15.1: Typo – replace “it” with “in” 3rd last sentence
- 10a-4.1.2 Figure 10a-3: Change the colour of the line between attribute A6 and A9 to black
- 10a-4.1.2 2nd table beneath Figure 10a-3: Remarks in row 4 should be changed from “A10-now with ATIX 2” to A10-now with ATIX 3”
- 10c-Table 10c3 to 10c-9 Incorrect table numbering
- 10c-5 Figure 10c-1: Change name of figure to “HDF5 models and implementation”
- 17-4.5: Code lists Value missing Code - S100_EncodingFormat - S100_ComplianceCategory - S100_ProtectionScheme
- 17-4.5: invalid Type references S100_DigitalSignatureReference and S100_DigitalSignatureValue
- 17-4.5 SupportFileDiscoveryMetadata, attribute supportedResource
- 17-4.5 SupportFileFormat value ASCII

8-8.1 Figure 8-20: attribute “metadata” is missing from the class S100_PointSet

- Proposal: Adjust figure to align with descriptive text.
 - Add „metadata“ to figure.



8-15.1: Typo – replace “it” with “in”

- Proposal: Correct typo
 - Replace “it” with “in .

8-15.1 Gridded data

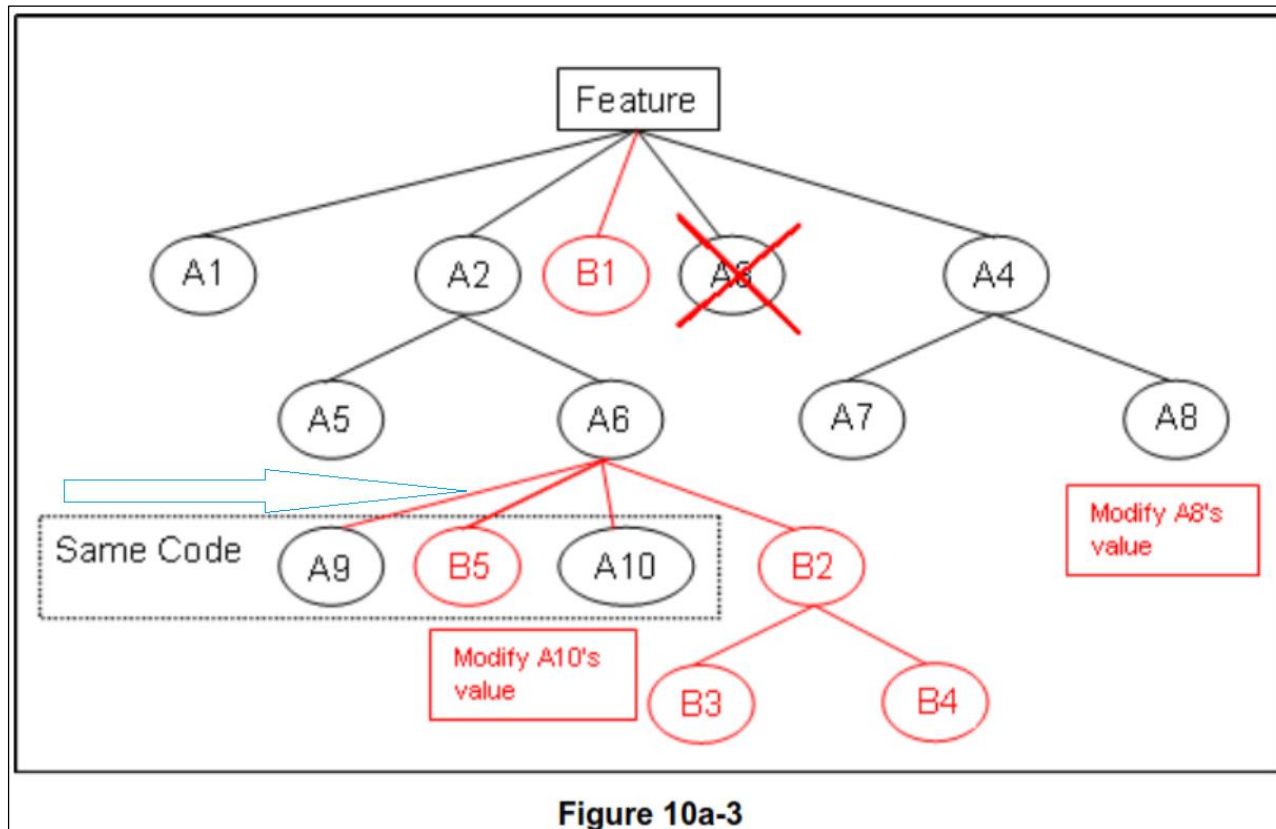
This Application Schema defines a quadrilateral grid coverage with associated metadata. The metadata is generically referenced to ISO 19115-1 and 19115-2. A specific choice of metadata has not been made in this Schema. This Schema can serve for both "matrix" and "raster" data [see Appendix 8-D] dependent upon the metadata chosen.

The gridded data consists of a single feature - the "image" or "matrix" together with associated metadata taken from MD_Metadata (or MI_Metadata). The CV_Coverage serves as the spatial attribute of the gridded data set. It defines an area that is "covered" by the coverage function. For the continuous coverage defined in this Application Schema, the coverage function returns a value for every point in the area covered based on an interpolation function. The Grid Value Matrix is a set of values which drives the interpolation function. It this case the value matrix is a grid traversed by a linear scan (x,y) traversal rule. The spatial referencing is defined by the coordinate reference system. This template Application Schema supports the majority of imagery and gridded data applications.



10a-4.1.2 Figure 10a-3: Change the colour of the line between attribute A6 and A9 to black

- Proposal: Change line colour to black to indicate no change to attribute A9
 - Amend figure accordingly.



10a-4.1.2 2nd table beneath Figure 10a-3: Remarks in row 4 should be changed from “A10-now with ATIX 2” to A10-now with ATIX 3”

- Proposal: Amend incorrect ATIX number
 - Amend table accordingly.

Index	NATC	ATIX	PAIX	ATIN	ATVL	Remark
1	22	1	0	Modify		A2 - complex
2	26	1	1	Modify		A6 - complex
3	29	2	2	Insert	32	B5 - Will increase the ATIX of A10
4	29	3	2	Modify	7	A10 - now with ATIX- 2 3
5	35	1	2	Insert		B2 - complex
6	36	1	5	Insert	22	B3
7	37	1	5	Insert	123	B4
8	32	1	0	Insert	abc	B1
9	23	1	0	Delete		A3
10	24	1	0	Modify		A4 - complex
11	28	1	10	Modify	Germany	A8

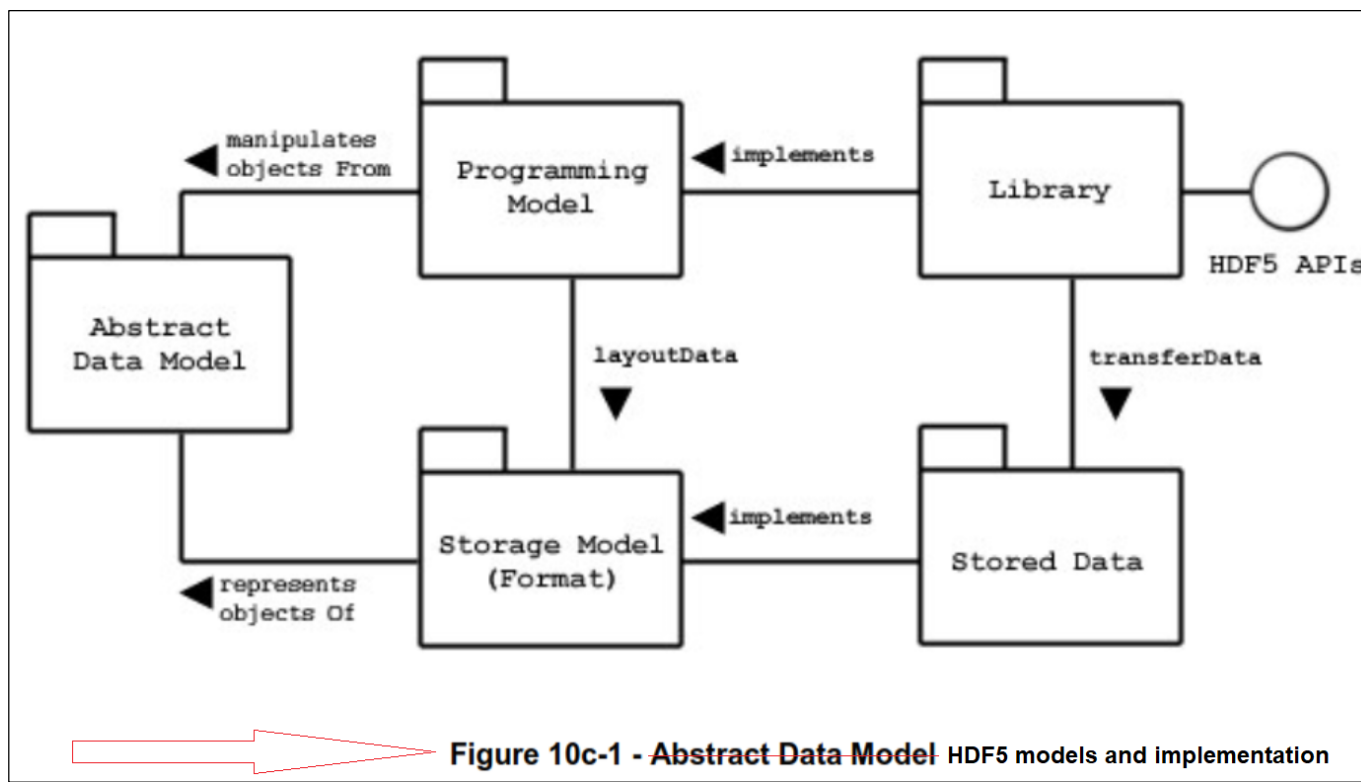
10c-Table 10c3 to 10c-9 Incorrect table numbering

- Proposal: The tables 10c-3 to 10c-9 on the pages 31 - 44 in Part 10c are not numbered correctly according to table numbers on previous pages. Suggest amending table numbers accordingly.
 - Review all tables in Part 10c



10c-5 Figure 10c-1: Change name of figure to “HDF5 models and implementation”

- Proposal: New figure name describes the entire content – and just not one of the components.
 - change figure name to: “HDF5 models and implementation”:



- http://davis.lbl.gov/Manuals/HDF5-1.8.7/UG/03_DataModel.html

17-4.5: Code lists Value missing Code - S100_EncodingFormat - S100_ComplianceCategory - S100_ProtectionScheme



- Proposal: For encoding of enumeration values Code values should be available. Add codes to enumeration values.

S100_EncodingFormat

Role Name	Name	Description	Code	Remarks
Enumeration	S100_DataFormat	The encoding format	-	-
Value	ISO/IEC 8211	The ISO 8211 data format as defined in Part 10a	1	-
Value	GML	The GML data format as defined in Part 10b	2	-
Value	HDF5	The HDF5 data format as defined in Part 10c	3	-
Value	undefined	The encoding is defined in the Product Specification	4	Use of Product Specification specific encoding means the data product and Product Specification is not intended for an IHO S-100 compliant system

S100_ComplianceCategory

Role Name	Name	Description	Code	Remarks
Enumeration	S100_ComplianceCategory		-	-
Value	category1	IHO S-100 object model compliant	1	
Value	category2	IHO S-100 compliant with non-standard encoding	2	
Value	category3	IHO S-100 compliant with standard encoding	3	
Value	category4	IHO S-100 and IMO harmonized display compliant	4	

S100_ProtectionScheme

Role Name	Name	Description	Code	Remarks
Enumeration	S100_ProtectionScheme	Data protection schemes	-	-
Value	S100p15	IHO S-100 Part 15	1	See Part 15



17-4.5: invalid Type references S100_DigitalSignatureReference and S100_DigitalSignatureValue

- Proposal: Correct the Type references to DigitalSignatureReference and DigitalSignatureValue in S100_DatasetDiscoveryMetadata, S100_SupportFileDiscoveryMetadata and S100_CatalogueDiscoveryMetadata

Attribute	digitalSignatureReference	Specifies the algorithm used to compute digitalSignatureValue	1	S100_SE_DigitalSignatureReference (see Part 15)	
Attribute	digitalSignatureValue	Value derived from the digital signature	<u>1</u> *	S100_SE_DigitalSignatureValue (see Part 15)	The value resulting from application of digitalSignatureReference Implemented as the digital signature format specified in Part 15



17-4.5 SupportFileDiscoveryMetadata, attribute supportedResource

- Proposal: Establish a convention for identifiers to be used when encoding the S100_SupportFileDiscoveryMetadata attribute supportedResource.
- S-100WG is invited to discuss and decide upon preferred solution.

Existing definition:

Attribute	supportedResource	Identifier of the resource supported by this support file	0..*	CharacterString	Conventions for identifiers are still to be developed and will be defined later
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Option 1:

Attribute	supportedResource	Identifier of the resource product supported by this support file	<u>0..*</u>	CharacterString URI	Conventions for identifiers are still to be developed and will be defined later DatasetDiscoveryMetadata attribute fileName.
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Option 2

Attribute	supportedResource	Identifier of the resource product supported by this support file	<u>0..*</u>	CharacterString URN	Conventions for identifiers are still to be developed and will be defined later DatasetDiscoveryMetadata attribute datasetID.
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S100_SupportFileFormat value ASCII Propose namechange

- Proposal: Change the name of S100_SupportFileFormat value = 2 (ASCII) to TEXT.
- Current name ASCII causes confusion when being described as "UTF-8 excluding control codes" – indicating a wider range of characters available than the 128 ASCII defined characters.
- Proposed change:

S100_SupportFileFormat

Role Name	Name	Description	Code	Remarks
Enumeration	S100_SupportFileFormat	The format used for the support file	-	-
Value	ASCII TEXT	UTF-8 text excluding control codes	1	-
Value	JPEG2000	JPEG2000 format	2	ISO 15444
Value	HTML	Hypertext Markup Language	3	
Value	XML	Extensible Markup Language	4	
Value	XSLT	Extensible Stylesheet Language Transformations	5	
Value	VIDEO	Representation of moving images in unspecified format	6	
Value	TIFF	Tagged Image File Format	7	
Value	PDF/AorUA	Portable Document Format	8	ISO 19005, ISO 32000 Product Specification developers should take careful consideration in using PDF as a support file format. It is recommended that PDF never be used in products that will be used on a navigation system as it may impair night vision Must be PDF/A or UA
Value	LUA	Lua programming language	9	