

Paper for Consideration by S100 Focus Group

S100 Schemas/FC/FCD AttributeValueType upper case v. lower case

Submitted by:	S100WG Chair
Executive Summary:	During work on updating the S-100 FC Schemas to align them to ed 3.0.0 of S-100 it was noticed that there was a discrepancy between how the attributeValueType was stored.
Related Documents:	S100 Edition 3.0.0, S-100 Feature Concept Dictionary and S-100 Feature Catalogues
Related Projects:	Any related projects that may impact upon considerations

Introduction / Background

While updating the S-100 Feature Catalogue Schema and comparing it to the S-100 Feature Concept Dictionary it was noted that there was an inconsistency between what was documented within S-100 and what was stored within the S-100 Feature Concept Dictionary – where some parts show the AttributeValueType in uppercase and other parts are in lowercase.

Analysis/Discussion

In Part 2a-4.2.10 the table for S100_CD_AttributeValueType shows the following.

2a-4.2.10 S100_CD_AttributeValueType

Role Name	Name	Description	Remarks
Enumeration	S100_CD_AttributeValueType	Value types of simple attributes	
Literal	boolean	True or False	
Literal	enumeration	List of predetermined values that can be expanded and contracted.	
Literal	integer	numeric value with defined range, units and format.	
Literal	real	floating point number	
Literal	text	a sequence of characters	
Literal	date	character encoding shall follow the format for date as specified by ISO 8601	
Literal	time	character encoding shall follow the format for time as specified by ISO 8601	
Literal	dateTime	character encoding shall follow the format for date and time as specified by ISO 8601	
Literal	URI	character encoding shall follow the format for URI as specified by RFC 3986	
Literal	URL	character encoding shall follow the format for URL as specified by RFC 3986	
Literal	URN	character encoding shall follow the format for URN as defined by RFC 2141	
Literal	S100_CodeList	Open enumeration or identifier of entry in a vocabulary	
Literal	S100_TruncatedDate	truncated format for date	

However, in the database that holds the AttributeValueType, they are stored using uppercase.

Multiplicity	attributeValueType	no
	Real	0
	StructuredText	0
	Enumeration	0
	Enumeration	0
	Text	0
	StructuredText	0
	Enumeration	0
	Enumeration	0
	Enumeration	0
	Real	0
	Text	0
	Enumeration	0
	Enumeration	0

Please note it also stores structured text as a carryover from the S-57 entries (these probably need to be changed,

85	Date end	The latest date on which an object (e.g., a buo...	This attrib...	1	1	StructuredText
86	Date start	The earliest date on which an object (e.g., a bu...	This attrib...	1	1	StructuredText
111	Nationality	The nationality of the specific object.	NULL	1	1	StructuredText

Recommendations

It is recommended that the FG pick a methodology and that either the FCD be updated or the document be updated accordingly.

Action Required of S100 Focus Group

The S100FG is invited to:

- a. discuss which option is best for AttributeValueType – uppercase or lowercase
- b. agree to a way forward so that one or the other can be changed.
- c. recommend a way forward on the Structured Text issue so that the FCD can be updated.