Title: Ensure consistent usage of ISO 639-2 3-letter language codes

S-100 Maintenance - Change Proposal Form

Organisation	NIWC	Date	7/7/2021
Contact	David Grant		David.Grant1@navy.mil

Change Proposal Type (Select only one option)

1.Clarification	2.Correction	3.Extension		
	X			

Location (Identify all change proposal locations)

S-100 Version No.	Part No.	Section No.	Proposal Summary
5.0 20210330 draft	10b GitHub Schema	9.6.1 S100XSLTPR	Update datasetLanguage Replace xs:language with string restriction

Change Proposal

Ensure consistent usage of three letter language codes. Details attached.

Change Proposal Justification

S-100 language codes must use an ISO 639-2 3-letter code.

The S-100 GML encoding currently specifies use of an ISO 639-1 two letter code ("EN").

The portrayal and alert schema specify that xs:language is used to store language codes. Although xs:language permits three character codes, it also allows two character codes. RFC 3066 says for languages with both two and three letter codes the two-letter code must be used. xs:language also allows various sub-tags to be added using hyphens.

7	hese a	are	all	valid	per	xs:language,	but	only	"mas"	conforms	to	S-100:
	Code	Lang	juage				Expla	nation				
	en	Engl	lish				ISO-	639 two-le	tter language	code		
	mas Masai			ISO-	ISO-639 three-letter language code							
	fr-CA French as used in Canada			ISO-	ISO-639 two-letter code with ISO-3166 two-letter country code							
	en-scouse	n-scouse English Liverpudlian dialect known as 'Scouse'		ISO-	ISO-639 two-letter language code with addition, IANA-registered							
	i-klingon	-klingon Klingon		IANA	IANA-registered language code							
	x-pig-latin	Pig I	Latin				Unre	gistered/Ex	kperimental			

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
\boxtimes	S-100 GitHub Schemas

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

10b-9.6.1 Dataset identification

Table 10b-3 - Dataset identification header elements

Field	XML Tag	Value	Mult.	Туре	Description
Dataset language	datasetLanguage	" <u>eng</u> EN"	1	ISO 639-2 3- letter code4	The (primary) language used in this dataset

S100CSL.xsd

S100PortrayalCatalog.xsd

S100AlertCatalog.xsd

```
...
<xs:schema
   xmlns:xs="http://www.w3.org/2001/XMLSchema"
   xmlns:s100Symbol="http://www.iho.int/S100SymbolDefinition">
        xmlns:s100CSL="http://www.iho.int/S100ConceptualSchema"
   <xs:include schemaLocation="S100PortrayalCatalog.xsd"/>
```