Title: Provide Vertical CRS vice Vertical Datum in Dataset Discovery Metadata

S-100 Maintenance - Change Proposal Form

Organisation	NIWC	Date	2/5/2021
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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 draft	4a	Appendix 4a-D	Modify S100_DatasetDiscoveryMetadata to provide a vertical and sounding CRS vice providing a vertical and sounding datum.	

Change Proposal

S100_DatasetDiscoveryMetadata

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Role Name	Name	Description	Mult	Туре	Rem arks
Attribute	vertical <mark>Datum</mark> CRS	Vertical DatumCRS of the entire dataset	01	S100_VerticalAndSounding Datu mCRS	
Attribute	sounding <mark>Datu</mark> mCRS	Sounding DatumCRS of the entire dataset	01	S100_VerticalAndSoundingDatumCRS	

S100_VerticalAndSoundingCRS

S100_VerticalAndSoundingCRS					
Role Name	Name	Description	Mult	Туре	Remarks
Class	S100_Vertical AndSounding CRS	Defines a vertical CRS	-	-	-
Attribute	datum	A vertical datum	1	S100_VerticalA ndSoundingDat um	
Attribute	axis	The axis of the coordinate system	1	CS_Coordinate SystemAxis	rangeMeaning must be "exact" if present. axisDirection must be either "up" or "down"

Update Figure 4a-D-4 - S-100 Exchange Set - class details

Change Proposal Justification

A vertical datum only indicates the reference plane (surface of zero elevation) for measuring height or depth. The unit of measure and orientation (up or down) should also be provided to support machine-readability and autonomous navigation.

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
\boxtimes	S-100 UML Models
\boxtimes	S-100 GitHub Schemas

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