

Paper for Consideration by S-102PT

Uncertainty registration

Submitted by:	Germany (BSH)
Executive Summary:	Missing registration of uncertainty in bathymetry coverage
Related Documents:	S-102 ed. 2.3.0, IHO Registry – Data Dictionary Register, IHO Registry – Concept Register
Related Projects:	S-102

Introduction / Background

While preparing for the PT15 meeting, we came across a difference in the IHO concept register from the S-102 product specification. The IHO concept register describes the implementation concepts for the S-100 and has a direct link to the data dictionary register that describes the concrete implementation.

<https://registry.iho.int>

Analysis/Discussion

Figure 1 shows a screenshot of the IHO Concept Register. It can be noted from the figure that this is the correct concept for storing the bathymetry coverage in the S-102. The concept definition area clearly states the use of depth and uncertainty. Also noticeable is the direct link to the Data Dictionary Register in the lower right corner (DDR Binding Contents). The link leads to the web page listing the features of the concept (see Figure 2). As you can see, the uncertainty in the Data Dictionary Register is not part of the bathymetry coverage feature.

Web pages accessed 10/16/2023 07:05 AM.

The screenshot displays the IHO Concept Register interface. At the top, it shows the breadcrumb path: Home / GI REGISTERS / Concept Register. Below this, a search bar contains the text 'Coverage'. The main content area is titled 'Concept Details' and lists the following information:

- Name:** Bathymetry Coverage
- Alias:**
- CamelCase:** bathymetryCoverage
- Definition:** A set of value items required to define a dataset representing an depth calculation and its associated uncertainty.
- Reference:** 2019
- Reference Source:** IHO S-102 Project Team ([Detail view](#))
- Similarity to Source:** Identical
- Remarks:**

Below the concept details, there are two sections:

- Management Details:**

Proposal Type	Addition	Submitting Org	IHO Secretariat
Successor	--	Date Proposed	2020-05-29
Predecessor	--	Date Accepted	2020-05-29
Proposed Change	New Item transferred from Feature Concept Dictionary Register.		
Justification	Initial population of Concept Register.		
- DDR Binding Contents:**

Feature type [Go to detail page](#)

Figure 1 IHO Concept Register

Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type 375 Information Type 30 Attribute Type 734 Complex Type 116 Enumeration Value 2389 Codelist Value 453

Domain ALL Status Valid Category Name

[Feature] Dictionary Details

Domain	IHO Hydro
Name	Bathymetry Coverage
Camel Case	BathymetryCoverage
Item Identifier	401
Use Type	Geographic: Carries the descriptive characteristics of a real world entity.
Definition	A set of value items required to define a dataset representing an depth calculation and its associated uncertainty.
Reference	2019
Reference Source	IHO S-102 Project Team
Similarity to Source	Identical: The style of the definition has been changed to match the style and structure of other specifications in the register that has imported the specification.
Remarks	
INT1	
S4	
Recommended Attributes	No. Attribute name
	1 Depth (Valid)
Distinctions Features	No. Feature name
	No data

Management Details

Proposal Type	Addition	Submitting Org	IHO Secretariat
Successor	-	Date Proposed	2020-07-08
Predecessor	-	Date Accepted	2020-07-08
Proposed Change	New feature transferred from Feature Concept Dictionary Register.		
Justification	Initial population of Data Dictionary Register.		

Figure 2IHO Data Dictionary Register

Conclusions

There exists a difference between the definition of the concept and the actual data structure. According to the IHO Registry, we are currently not allowed to store uncertainty information in the bathymetry coverage, because the basis for this is missing in the Data Dictionary Register.

Recommendations

It is recommended that a discussion be held in accordance with the observations. From the BSH perspective, there are three possible outcomes of the discussion.

1. the observation is not correct
2. the uncertainty will be removed from the bathymetry coverage
3. the IHO registry will be modified

Justification and Impacts

This paragraph is dependent on the outcome of the discussion.

Action Required of S-102PT

The S-102PT is invited to:

- a. discuss