

S-101PT Letter 06/2024

29th August 2024

S-101 2.0.0 Delivery Update

Dear S-101 Project Team Members,

I wanted to provide a further update on our next meeting and the approval progress towards S-101 2.0.0.

1. S-101PT14 Meeting

As discussed at the PT 13 meeting our next meeting will be a full VTC meeting. This meeting will take place on the 10th and 11th of December from 1200-1500 UTC+1. The primary focus of this meeting will be to discuss post edition 2.0.0 changes to S-101 and seek to review outstanding work and actions that need to be completed but have taken lower priority due to the delivery of the S-101 Product Specification. The meeting will also seek updates on any testing of S-101 that has progressed since the PT 13 meeting.

2. S-101 Edition 2.0.0 Delivery

The S-100WG letter seeking approval of the S-101 1.4.1 has recently ended its review period and the S-101 executive have reviewed the comments received and agreed actions which has been reflected in S-101 edition 1.5.0, which can be downloaded from the [Documents \(Main and DCEG\)](#) folder in the S-101 Documentation and FC GitHub repository.. The changes are limited but it is judged that these changes will improve S-101. Annex A of this letter summarizes the changes, noting that the redlines included in the GitHub repository show all cumulative changes since Edition 1.2.0.

Work will now focus on the preparation of revised Feature and Portrayal Catalogues as well as amendments to the validation checks to reflect these comments. The final 1.5.0 package will then be forwarded for a HSSC Circular Letter which is expected to be shared on the 9th of September.

I would encourage PT members to consider at an early stage any items they would like to discuss at the PT14 meeting and engage with myself and Jeff so that we can include these in the draft agenda. This will then be shared in due course.

Yours sincerely,



Tom Richardson
(IHO – S-101PT Chair)

Annex A Summary of S-101 changes resulting from S-100WG Letter 02/2024

The following Table lists changes included in S-101 Edition 1.5.0 documentation from Edition 1.4.1 that impact on the Feature and Portrayal Catalogues. It is considered that all other changes in the DCEG from S-101 DCEG Edition 1.4.1 to Edition 1.5.0 impact on encoding guidance only and do not impact on the S-101 Feature or Portrayal Catalogues.

DCEG Clause	Change	FC	PC
8.15	Amend multiplicity of attribute category of dolphin on feature Dolphin from [1..1] to [1..*].	Yes	No
11.4	Remove prefixed text “ <i>Dredged to</i> ” from displayed dredged depth legend portrayal. [NOTE: There is no change in S-101 documentation related to this, however this has been raised as a clutter issue in a S-100WG review comment and it has been agreed to apply this change for testing.]	No	Yes
13.10	Attributes default clearance depth and surrounding depth removed as allowable attributes for feature Marine Farm/Culture .	Yes	No
13.10	Complex attribute vessel speed limit removed as an allowable attribute for feature Marine Farm/Culture .	Yes	No
14.1	Enumerate value 27 (speed restricted) removed as an allowable value for attribute restriction for feature Pipeline Submarine/On Land .	Yes	No
14.1	Complex attribute vessel speed limit added as an allowable attribute for feature Pipeline Submarine/On Land .	Yes	No
14.5	Enumerate value 27 (speed restricted) added as an allowable value for attribute restriction for feature Submarine Pipeline Area .	Yes	No
25.14, 26.10	New association role name The Roofed Structure added (replaces role The Structure in the Roofed Structure Aggregation association).	Yes	No

NOTE: The changes listed in this table have been compiled by the IHO Secretariat and are based on IHO Sec knowledge of the relationship between the S-101 documentation and the Catalogues only. The Tables below are excerpts from the Changes tables in the S-101 Edition 1.5.0 Main document and DCEG listing the substantive changes from Edition 1.4.0 that have been included in Edition 1.5.0.

S-101 Main Document:

Change Summary	Clauses Affected
Added explanatory text for intent and use of the attribute drawing index .	5.4.3
Replaced references to former S-101 Annex C with references to new IHO Publications S-158:100 and S-158:101.	6 (entire), 8.4
Removed prefix text “Depth –” from value to be populated for the vertical CRS for the CRS Name (CRNM) subfield of the Coordinate Reference System Header (CRSH) field.	B-5.1.10
Removed S-101 Annex C (relocated to new IHO Publications S-158:100 and S-158:101).	C

S-101 DCEG:

Change Summary	Clauses Affected
Amended guidance for encoding of "system" attribute default clearance depth to have the calculation of the value based on the depth range minimum value of the shoalest depth area that the feature is covered by; and the logic as described in the relevant S-52 Conditional Symbology Procedures.	2.4.5.1, 30.1
Added new examples for encoding and display of complex attribute feature name .	2,5,8
Removed the mandatory requirement to have an instance of Spatial Quality to be associated with all underwater hazards of depth less than 30 metres and replaced with guidance that Spatial Quality may be associated to underwater hazards to indicate uncertainty that is different to that indicated by the underlying Quality of Bathymetric Data .	3.8.1.3, 11.3.1, 13.4.1, 13.5.1, 13.6.1, 24.5.1
Amended multiplicity of attribute category of dolphin from [1..1] to [1..*] for feature Dolphin .	8.15
Added new guidance for feature Wreck that where the attribute height is populated, the attribute value of sounding must not be populated.	13.5.1
Removed "system" attributes default clearance depth and surrounding depth as allowable attributes for feature Marine Farm/Culture .	13.10
Removed value 27 (speed restricted) as an allowable value for attribute restriction for feature Pipeline Submarine/On Land . Removed complex attribute vessel speed limit as an allowable attribute.	14.4
Added value 27 (speed restricted) as an allowable value for attribute restriction for feature Submarine Pipeline Area . Added complex attribute vessel speed limit as an allowable attribute.	14.5
Amended guidance to allow for feature Deep Water Route Part to be covered by Dredged Area .	15.14.1
Added new guidance for encoding a restriction that cannot be populated using the attribute restriction .	17.8.1