

S-101 PT Report to S-100WG8

S-101 PT Secretary Jeff Wootton

S-100WG8 3.6

Rev1 09 November 2023



S-101 PT MEETINGS

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Meetings held (2)

- S-101PT10 Brest, France, June 23
- S-101PT11 Lombok, Indonesia, Sep 23



- S-101PT 12 February 2024 (Remote)
- S-101PT13 Sweden, June 2024
- Various meetings of PT sub-groups;
 DCEG, Scales, Portrayal







S-101 PT ELECTION

- At the PT10 meeting an election of PT officers took place as a result of the 3rd Assembly
- Thomas Richardson, UK was re-elected as chair

- Klas Ostergren, SE was elected as vice chair
- Alvaro Sanchez, AU was re-elected as vice chair to provide continuity as Alvaro will step back from this role in future

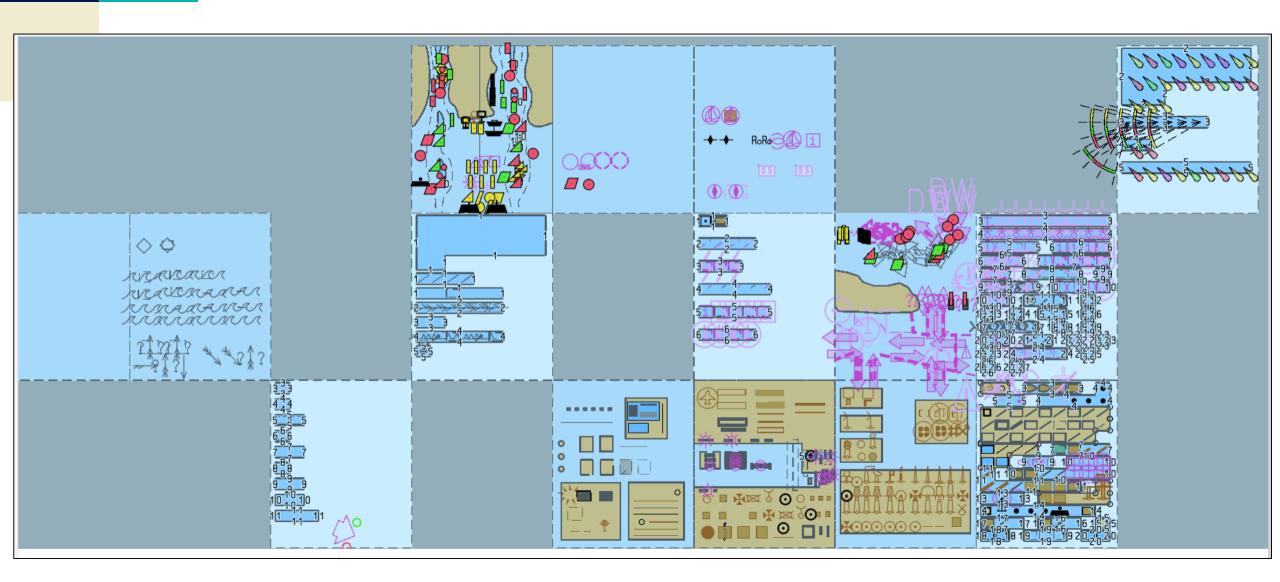


WORK COMPLETED

- Publication of S-101 1.1.0 in April 2023 was a major milestone as this included a complete S-101 Portrayal Catalogue
- Significant progress has been made using IHO Special Projects fund support on S-101 Test Datasets these have been refined and are supporting the development of S-164
- The PT has considered various issues and begun work to prepare draft edition 1.2.0 of the Data Product Specification, DCEG and Feature Catalogue have been posted for this meeting (S-100WG8)



IHO S-101 TEST DATASETS



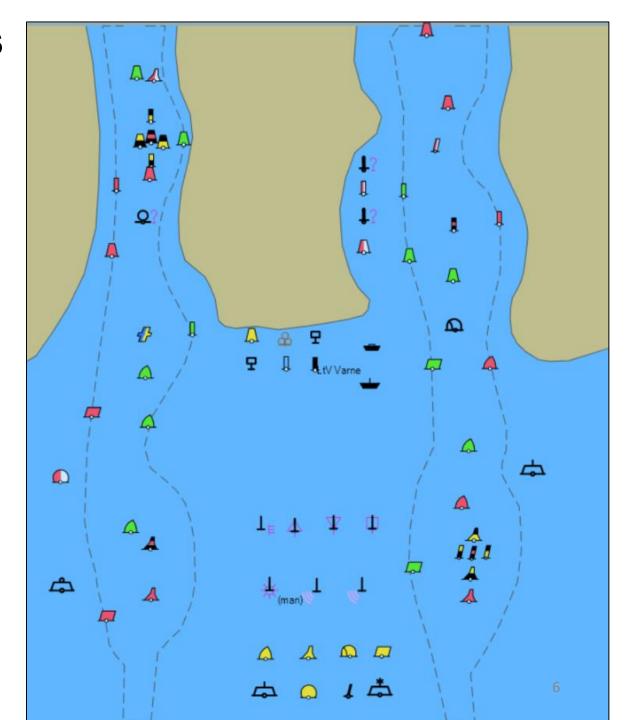


PORTRAYAL PROGRESS

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This image shows a test dataset for AtoNs presented using new colour filled symbols.

These symbols were agreed for inclusion in Ed.1.2.0 of S-101PS at S-101PT11.





SIGNIFICANT DEVELOPMENTS

- Following discussion S-101PT11 agreed to retain the current approach to update indication in ECDIS at this stage, although use of the Update Information feature could improve the situation the impact on producers and the immaturity of production software support mean that this needs testing and final consideration before making changes in S-101 2.0.0
- S-101PT agreed to include interoperabilityIdentifier as an attribute on AtoNs and Lights to support testing, guidance is needed on MRNs for consistency, but it is considered useful to have the attribute available for testing, S-100WG is requested to provide guidance
- Changes to the approach to Metadata features have been agreed which will improve machine readability and also benefit those using S-101 ENCs for other purposes
- Refinements to attributes for language mean that changes to the context parameters will be needed in S-98 (Action S-101PT11/09)



OVERSCALE INDICATION

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- The scales sub-group has had significant discussions on a range of topics:
 - ✓ relation between *compilationScale* and *maximumDisplayScale*;
 - ✓ prohibition of overlapping scale ranges;
 - ✓ calculation of scaleMinimum attribute;
 - ✓ need for an educational document on S-101;
 - ✓ S-101 loading strategy;

The S-101PT agreed to introduce *optimumDisplayScale* in edition 1.2.0 (mandatory attribute on DataCoverage features) for testing purposes



SYSTEM ATTRIBUTE SUPPRESSION

- The S-101PT has included in S-101 a number of attributes that are not intended for users
- These are known as system attributes and avoid the need for highly complex logic to support the conditional symbology procedures defined in S-52, this is key to machine readability as the attributes remove the need for hard coded rules
- The PT discussed that these attributes should not be shown to users, the PT understands that either S-100 Part 5 or Part 9 would need to be modified to allow the suppression of information in the pick report, this could be done by adding an attribute to the FC Item type within the Feature Catalogue this approach would also allow certain features or information types to be supressed as well as attributes

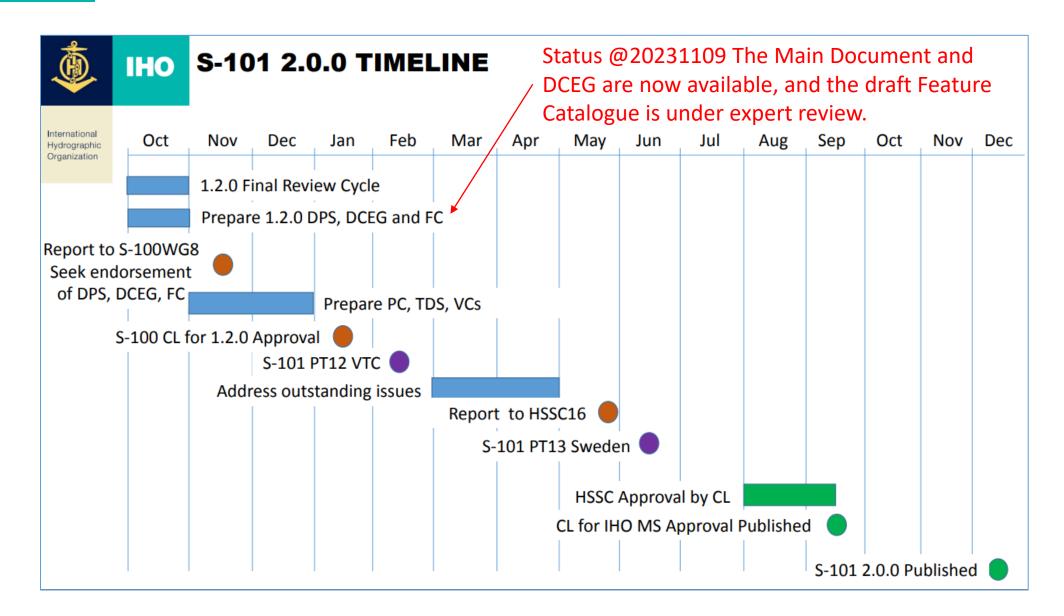


REMAINING WORK

- Finalise Ed.1.2.0 of S-101PS planned for early 2024
- Prepare and finalise edition 2.0.0 of S-101PS see next slide
- Finalise registry content which is dependent on GI registry changes
- Process feedback from testing including conversion testing
- Conduct an Impact Study see further slide



DELIVERY PLAN FOR 2.0.0





S-101 IMPACT STUDY

- IHO Resolution 2/2007 details how IHO standards are managed/amended
- Noting the S-100 Roadmap it would seem logical to conduct such a study together with other specifications
- S-101PT seeks direction from S-100WG on when and how to conduct this impact study
- One option would be to conduct an integrated impact study of Phase 1 specifications using two stakeholder groups;
- 1. Production Systems, Producers and Associated Tools (Validation)
- 2. End user systems, Shipping Companies, End Users and the Distribution Chain

CHALLENGES

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Capacity

The group remains reliant on a limited group of active contributors

Dependencies

S-101 remains dependent on S-98, S-164 and continued stability of S-100. We also continue to have dependencies on the GI Registry and associated tools (FCB)

Testbeds and Testing

There are a limited number of testbed systems and testing to date has been limited. Systems supporting dual fuel, S-98 and other Phase 1 products are needed for effective testing

Documentation

We continue to maintain S-101 documents in Word in the future it would be preferred to migrate to Github but this will require clarity on the approach to be used



RECOMMENDATIONS

- 1. To note the report and endorse the proposed way ahead to deliver 2.0.0
- 2. To note the requirement for a new context parameter to support improved language functionality in ECDIS and consider S-98 impact
- 3. To note the requirement to suppress pick report contents and consider modifications to the S-100 Feature Catalogue or Portrayal Model to support this in future versions of S-100
- 4. To consider the need for an integrated impact study taking into consideration all Phase 1 standards (Resolution 2/2007 refers)
- 5. S-100WG to provide guidance on the consistent use of MRNs in Product Specifications
- 6. S-100WG to provide guidance and direction on the use of Github, consider adopting the approach used by OGC



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QUESTIONS?