

Paper for Consideration by TSMAD

S-101 status and risk register

Submitted by:	S-101 Project Team Lead
Executive Summary:	This paper provides a status update on S-101
Related Documents:	S-101 Product Specification S101PT01 4.1A (Risk Register) S101PT01 4.1B (Timeline) S101PT01 4.1C (Value added Roadmap) S101PT01 4.1D (S-101 Product Specification) S101PT01 4.1E (S-101 Feature Catalogue) S101PT01 4.1F (S-101 Portrayal Catalogue) S101PT01 4.3 (S-101 FC .8 Discrepancies)
Related Projects:	S-101

Introduction / Background

S-101 is a multi-part product specification when put together will form the basis for the creation and display of Electronic Navigational Charts. The major components of S-101 are:

- A. S-101 Main
- B. S-101 Data Classification and Encoding Guide
- C. S-101 8211 Annex
- D. S-101 Feature Catalogue
- E. S-101 Portrayal Catalogue
- F. S-101 Implementation Guidance
- G. S-101 Validation Checks

Analysis/Discussion

In June 2015 the S-101 Project Team released a baseline version of S-101 for use in the S-100 Test Bed. This included the following items

Component	Comment
S-101 Main	
S-101 DCEG	
S-101 8211 Annex	
S-101 Feature Catalogue	
S-101 Portrayal Catalogue	The S-101 Portrayal Catalogue was created by Caris and is a straight translation of S-52 into the S-100 Portrayal Catalogue format. It is acknowledged that there is a great deal of work that needs to be done on the S-101 Portrayal Catalogue, but due to some IT issues and resource issues, not much has progressed aside from what Caris has provided.

- A. S-101 Main
- B. S-101 Data Classification and Encoding Guide
- C. S-101 8211 Annex
- D. S-101 Feature Catalogue
- E. S-101 Portrayal Catalogue

These files were uploaded to the S-100 Test Bed Project on Basecamp which allows for file sharing.

Post release the following has been has been updates have occurred to the files and are available as part of the S-101 Project Team meeting documents

Component	Comment
S-101 Main	<ul style="list-style-type: none"> • Minor editorial changes based on comments from Japan and Australia • It was noted that there are some issues with the Data Coverage rules in S-101 and will be addressed in a separate paper • It was noted that there were some harmonization issues in the catalogue metadata between S-100 and S-101 and will be addressed at the S-100 WG meeting. Once these are approved for S-100, S-101 will be updated
S-101 DCEG	<ul style="list-style-type: none"> • No changes since March 2014 • A number of proposals have been subsequently made and accepted
S-101 8211 Annex	<ul style="list-style-type: none"> • No changes – there is an outstanding proposal to S-100 but that should not affect S-101
S-101 Feature Catalogue	<ul style="list-style-type: none"> • No major changes. This feature catalogue does include the data quality model that is missing from the DCEG baseline • The Feature Catalogue does not contain all of the information associations.
S-101 Portrayal Catalogue	<ul style="list-style-type: none"> • The S-101 Portrayal Catalogue was created by Caris and is a straight translation of S-52 into the S-100 Portrayal Catalogue format. It is acknowledged that there is a great deal of work that needs to be done on the S-101 Portrayal Catalogue, but due to some IT issues and resource issues, not much has progressed aside from what Caris has provided.

There are still two major pieces of S-101 that need significant work in the next year. They are:

S-101 Implementation Guidance: This annex was developed to provide additional guidance for system implementation. It currently houses information from S-52 that may or may not need to be part of S-101 if it is not covered by the Feature Catalogue or Portrayal Catalogue. It is anticipated that as S-101 moves through the S-100 Test Bed the project team will be able to develop and refine the guidance.

S-101 Validation Checks: This is a major component of S-101 that has not had a whole lot of activity. This is due to the much needed update to S-58 edition 5.1.0 which will form the baseline for the S-101 Validation Checks. Recognizing that the S-101 Validation Checks will be very similar to S-58 the following is a proposed way forward for the consideration of the project team:

1. Update S-58 to utilize the terminology in S-101 eg. camelCase. (Partially completed)
2. Divide the drafting of S-101 Validation Checks into four parts
 - a. Critical and replacing check 2000 with validating against the S-101 feature catalogue
 - b. Errors
 - c. Warnings
 - d. New Checks

The S-100/S-101 risk register highlights the areas where more work needs to be done and where progress is on track.

In addition, HSSC has requested that the S-100WG/S-101 Project Team maintain an S-101 Value Added Roadmap. The S-101 Project Team Lead has updated the roadmap with the latest information.

Major Project Highlights:

1. Work needs to begin on S-101 Validation. Risk has gone from medium (yellow) to HIGH (RED).
2. Caris provided an S-101 Portrayal Catalogue using S-52 as a baseline. Risk has moved from high (red) to low (green)
3. The S-57 to S-101 Converter has been completed and posted to basecamp. Risk has gone from medium (yellow) to low (green)

Major Issues:

1. The continuing issue of being unable to register any of the new S-101 features/attributes/enumerants to the S-100 Registry has continued to plague the project. The S-100 Working Group has been working to resolve these issues.
2. Because of the need to rebuild parts of the IHO Registry Infrastructure, there has been a lack of resources to completely test the Portrayal Catalogue Builder, therefore a more robust S-101 portrayal catalogue has yet to be built.

Next Steps

1. Register all the approved features from the DCEG baseline and any of the other approved amendments post DCEG baseline.
2. Build an updated Feature Catalogue once the FCB has been connected to the official IHO Registry taking into account any discrepancies that have been reported (Paper 4.3)
3. Build a complete S-101 Portrayal Catalogue.
4. Begin development of the S-101 Data Validation Checks
5. Develop a plan to review and update the S-101 Implementation Guidance.

Action Required of TSMAD

The TSMAD/DIPWG is invited to:

- Note the S-101 Risk Register and Status of the various high level tasks.
- Provide Feedback on the S-101 Value Added Roadmap by May 1, 2016