

Paper for Consideration by TSMAD

S-101 Status and Risk Register

| | |
|---------------------------|--|
| Submitted by: | S-101 Work Item Leader |
| Executive Summary: | This paper will give TSMAD an update on the S-101 development and introduce a risk register for each development activity. |
| Related Documents: | S-101 Product Specification |
| Related Projects: | S-101 |

Introduction / Background

S-101 has taken an iterative approach to development. However, in order to provide a completed product specification it should be noted that there are many moving parts that are at different stages. While it was originally intended that S-101 would be completed by January 2013, due to slow progress on portrayal the schedule has slipped. This paper is intended to inform TSMAD of the progress of S-101 and estimated completion date for S-101 so it can move into the testing phase.

Analysis/Discussion

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-57 to S-101 convertor
- G. S-101 Implementation Guidance

In order for S-101 to be at a stage for TSMAD to start testing the following components must be near or at completion.

- 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-57 to S-101 convertor

The S-101 Implementation Guidance will continue to be refined during the test process and needs to be completed prior to TSMAD forwarding S-101 on to HSSC for approval.

The following outlines the status of each major component and gives a percentage of completion:

S-101 Main: 80% Complete. S-101 has gone through a fourth round of comments which will be adjudicated at this meeting. For the most part, the key concepts of S-101 are documented and stabilized within the product specification and will require testing in order to finalize – such as the utilization of Scale Dependent and Scale Independent data for S-101 and the algorithm for data loading and unloading. The major outlier is that the portrayal clause is incomplete which accounts for the 20% of the product specification. However, DIPWG is moving forward on the S-100 Portrayal component and once that is finalized, should lead to rapid development of the S-101 portrayal section.

S-101 Data Classification and Encoding Guide: 95% Complete. The DCEG sub working group has completed two reviews of the DCEG and have considered multiple proposals for new features, attributes and enumerants. After TSMAD 25, the stabilized DCEG will be circulated for a full TSMAD review. Even though S-101 is flexible in nature, TSMAD will have to consider having a short moratorium on new proposals during the testing and finalization of S-101. Once that period is complete then S-101 would move to a maintenance mode and new proposals would be considered.

S-101 8211 Annex: 99% Complete. In the last comment round, there were a few comments on this annex. These will be addressed at TSMAD 25.

S-101 Feature Catalogue: 50% complete. The UKHO has built a feature catalogue builder and the last feature catalogue was generated in early 2012 for the purpose of testing the S-57 to S-101 convertor. The main reason that this is only 50% complete is that post TSMAD 25, the DCEG will at a complete enough stage for the S-101 Feature Catalogue to be built for testing, as the DCEG is currently the holding place for all the features/attributes/enumerants and their respective bindings. It is anticipated that the next version of the feature catalogue will be available approximately one month post TSMAD 25.

S-101 Portrayal Catalogue: 0% Complete. This item is dependent upon the completion of the S-100 Portrayal Model and a portrayal catalogue builder. In addition, there are approximately 30 new feature/attributes/enumerants that will also need to have new portrayal rules built.

S-57 to S-101 Convertor: 95% Complete. Once the next version of the Feature Catalogue is completed, then ESRI will update the convertor. This will provide S-101 test data for the testbeds. The current intention is for ESRI to update the convertor a final time with the final feature catalogue right before S-101 becomes a published standard.

S-101 Implementation Guidance: 10% Complete. This part of the product specification does not have to be completed until after the testbeds. The intent of this annex is to provide further guidance for OEMs and software companies on the implementation of S-101. TSMAD will only be able to populate this guidance once things have gone through testing and we have a better understanding on what will require further clarification.

Conclusions

In addition to the above status update, a risk register has been prepared for TSMAD to understand where S-101 is progressing and where it is not progressing and the type of risk mitigation that will be needed.

It should also be pointed out that this status is only concerned with the documentation portion of S-101. The test bed portion of S-101 should be considered as a separate activity under the S-101 development umbrella.

Action Required of TSMAD

The TSMAD is invited to:

- Note the S-101 Status Update

- Note the S-101 Risk Register

- Suggest possible improvements to the risk register