

S-101 Risk Matrix

The purpose of this risk register is to assess the different pieces that are needed to bring S-101 together. Although, it was originally intended for S-101 to be completed by January 2013 in order to be ready for a thorough test bed process, circumstances that are beyond the scope of TSMAD have necessitated another look at the schedule. As part of this look it is important to identify each piece of the project and assess the risk in order to see if additional resources need to be applied.

This Risk Register is split into three parts:

- S-100 – Are the S-100 pieces in place to develop a fully mature S-101 product specification
- S-101 – What pieces need to be in place to complete the S-101 product specification and how are they progressing
- S-100/S-101 Test Beds – What needs to be done in order to test S-101.

| S-100 Task and Risk Register | | | | | | | |
|------------------------------|--|-------------------------|--|--------|---------------------------------------|--------|---|
| ID | Task | Planned Completion Date | | % Comp | Expected Completion Date | Impact | Action to Manage Risk |
| 1.a | S-100 Portrayal Completed (SVG Profile Excluded) | June 2013 | | 98% | October 2013 April 2014 | High | DIPWG accepted the model in June 2013 NOAA Contracted CARIS to complete the few remaining portions of Part 9 that need refining. |
| 1.b | S-100 Portrayal SVG Profile completed | June 2013 | | 5% | December 2013 TBD | Medium | An S-100 SVG profile will be created under the Portrayal Catalogue Builder contract, which ends Dec 2013. The profile may be available earlier than Dec. SVG profile will be developed over the initial phases of the S-100 Test Framework. |

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| 2 | S-100 Portrayal Catalogue Builder completed <ul style="list-style-type: none"> Portrayal register contents are solely based on S-52. Register content needs to be validated and any new S-100/101 content added | October 2013 | | | December 2013 April 2014 | High | Portrayal Catalogue Builder Contract has been let by the IHO It might be possible that all or part of the first S-101 Portrayal Catalogue could be "built by hand" to facilitate starting testbed activities. |
| 3 | S-100 Feature Catalogue Builder completed | June 2013 | | 90% | November 2013 TDB | High | NOTE: The functionality has been demonstrated, however, due to loss of UKHO resources there is a delay in the production of an S-101 baseline feature catalogue. KHOA has volunteered to build the baseline S-101 Feature Catalogue. |

| S-101 Product Specification Task and Risk Register | | | | | | | |
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| ID | Risk | Planned Completion Date | | % Comp | Expected Completion Date | Impact | Risk Mitigation |
| 1 | Main Product Specification complete(Portrayal Excluded) | October 2013 | | 90% | October 2013 | High | The main PS is fairly stable and outstanding issues need to be followed up in test beds |

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| 2 | S-101 Portrayal complete | October 2013 | 50% | April 2014 | High | <p>Initial set of Portrayal Implementation Guidance based on S-52 Ed 6.0 and Presentation Library Ed 3.4 was extracted and adapted for use in S-101.</p> <p>Now that the new edition of S-52 (6.1) and the Presentation Library (4.0) have been completed, the implementation guidance in Annex C is being adapted for use in S-101</p> <p>The Implementation Guidance section will grow throughout testbed phase. Portions of the content may be “promoted” to S-100 or “demoted” to S-101 depending on its degree of applicability to other S-100 based products.</p> |
| 3 | S-101 Data Classification and Encoding Guide complete (Baseline) | October 2013 | 100% | October 2013 December 2013 | High | This version is considered the baseline version for testing. |
| 4 | New features and attributes added to the FCD for S-101 | November 2013 | 0% | November 2013 TBD | Low | <p>Need to ensure that we have the proper resource to add the new items to the FCD. Although the FC can be created without registering the new features.</p> <p>The features from the baseline DCEG have been registered in the S-100 test register for use to build the S-101 Feature Catalogue.</p> <p>Registration in the main S-100 register is pending a TSMAD decision.</p> |

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| 5 | Create a new version of the Feature Catalogue | December 2013 | | 75% | December 2013 February 2014 | High | <p>Need to ensure that we have the proper resource to build the latest version of the feature catalogue.</p> <p>KHOA has volunteered to deliver the first iteration of the S-101 Feature Catalogue for testing.</p> |
| 6 | Create the first iteration of the Portrayal catalogue | December 2013 | | 75% | December 2013 March 2014 | | <p>Develop an "S-52" version of the catalogue that contains the new features.</p> <p>Portrayal Catalogue builder should be completed, waiting on a baseline feature catalogue</p> |
| 7 | New CATZOC Model and Portrayal Algorithm | May 2014 | | 50% | May 2014 | Medium | DQWG has defined the features. TSMAD to liaise with DQWG to understand when the portrayal algorithm will be completed. |
| 8 | S-57 to S-101 Convertor updated to provide test data | January 2014 | | 65% | January 2014 TBD | High | <p>Ensure that ESRI will continue to support the Convertor until it is turned over to the IHO. ESRI has self-funded a good portion of the development for the initial phase. It will require some additional funds to complete.</p> <p>NOTE: United States will be providing some additional funding for the next iteration.</p> |
| 9 | S-58 for S-101 Data Validation | October 2014 | | 0% | October 2014 | Medium | Create a subset of existing S-58 checks for S-101 and add additional checks based on the new product specification |

| ID | Risk | Planned Completion Date | | % Comp | Expected Completion Date | Impact | Risk Mitigation |
|----|--|-------------------------|--|--------|------------------------------|--------|---|
| 1 | S-101 Test Cases completed | October 2013 | | 0% | April 2014 | High | IHB to let out a contract to complete this work item. |
| 2 | S-101 Test Plan Strategy | October 2013 | | 100% | October 2013 | High | |
| 3 | S-100 Test Framework | April 2014 | | 100% | April 2014 | High | Held Test Framework meeting in September 2013. This will always be a work in progress as we move through the testing process. TSMAD approved the framework in December 2013. |
| 4 | S-101 Test Plan Completed | October 2013 | | 50% | April 2014 TBD | High | This may fold into the S-100 Test Framework as a component that gets tested |
| 5 | Phase 1: S-100 Test Framework <ul style="list-style-type: none"> • Feature Catalogue Builder • Portrayal Catalogue Builder | | | | TBD | High | Covered by Item's 2 and 3 under the S-100 part of the Risk Register |
| 6 | Phase 2: S-100 Test Framework <ul style="list-style-type: none"> • Simple Production Tool (Converted Data) • S-100 Simple Overlay | | | 65% | TDB | High | The S-57 to S-101 convertor will serve as the simple production tool. It can also be modified to create simple S-100 overlays if the originating data is in S-57 and there is an S-100 Feature Catalogue. |
| 5 | Phase 3: S-100 Test Framework <ul style="list-style-type: none"> • S-100 Simple Viewer | May 2014 | | 0% | May 2014 | High | KHOA is developing a prototype SPAWAR also has software that it can utilize in this capacity |
| 6 | Phase 4: S-100 Test Framework <ul style="list-style-type: none"> • Preliminary Production Tool • S-100 Integrated Data (S-102+S-101) | 1Q 2015 | | | | Medium | |
| 7 | Phase 5: S-100 Test Framework | 1Q 2015 | | | | Medium | |

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| | <ul style="list-style-type: none"> • Preliminary Data Validation • Preliminary Data Packaging and Distribution Models | | | | | |
| | Phase 6: S-100 Test Framework <ul style="list-style-type: none"> • Shore Based ECDIS | 2Q 2015 | | | Medium | |
| | Phase 7: S-100 Test Framework <ul style="list-style-type: none"> • Full Production Tool | 2016 | | | Medium | |
| | Phase 8: S-100 Test Framework <ul style="list-style-type: none"> • Data Validation • Data Packaging and Distribution | 2016 | | | Medium | |
| | Phase 9: S-100 Test Framework <ul style="list-style-type: none"> • Full ECDIS | 2017 | | | Medium | |