

## 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		100%	<del>October 2013</del> 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		100%	<del>December 2013</del> March 2015	Medium	<del>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.</del>  SVG profile will be developed over the initial phases of the S-100 Test Framework.

2	S-100 Portrayal Catalogue Builder completed <ul style="list-style-type: none"> <li>Portrayal register contents are solely based on S-52.</li> <li>Register content needs to be validated and any new S-100/101 content added</li> </ul>	October 2013		100%	<del>December 2013</del> 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		95%	<del>November 2013</del> TBD	High	Still need to finalize the connection to the IHO Register and to figure out to

S-101 Product Specification Task Risk Register							
ID	Risk	Planned Completion Date		% Comp	Expected Completion Date	Impact	Risk Mitigation
1	Main Product Specification complete (Portrayal Excluded)	October 2013		90%	<del>October 2013</del> February 2015	High	S-101 has gone out for a round of comments and after adjudication would consider it to be base lined
2	S-101 Portrayal Section complete (excluding the catalogue)	October 2013		90%	<del>April 2014</del> February 2015	High	S-101 has gone out for a round of comments and after adjudication would consider it to be base lined
3	S-101 Data Classification and Encoding Guide complete (Baseline)	October 2013		100%	<del>October 2013</del> 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%	0%	<del>November 2013</del> 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>
5	Create a new version of the Feature Catalogue	December 2013	100%	100%	<del>December 2013</del> February 2014 October 2014	High	
6	Create the first iteration of the Portrayal catalogue	December 2013	50%	50%	<del>December 2013</del> March 2014 June 2015	High	Caris provided an S-52 lite version in an S-100 compliant format.
7	New CATZOC Model and Portrayal Algorithm	May 2014	50%	50%	<del>May 2014</del> TBD	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%	65%	<del>January 2014</del> February/March 2015	High	
9	S-58 for S-101 Data Validation	October 2014	0%	0%	<del>October 2014</del> TBD	Medium	Create a subset of existing S-58 checks for S-101 and add additional checks based on the new product specification

S-100/S-101 Test Bed Risk Register							
ID	Risk	Planned		%	Expected Com-	Impact	Risk Mitigation

		Completion Date		Comp	pletion Date		
1	S-101 Test Cases completed	October 2013		100%	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	<del>S-101 Test Plan Completed</del>	<del>October 2013</del>		50%	<del>April 2014</del> TBD	High	<del>This may fold into the S-100 Test Framework as a component that gets tested</del>
5	Phase 1: S-100 Test Framework <ul style="list-style-type: none"> <li>• Feature Catalogue Builder</li> <li>• Portrayal Catalogue Builder</li> </ul>				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"> <li>• Simple Production Tool (Converted Data)</li> <li>• S-100 Simple Overlay</li> </ul>			95%	February/March 2015	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 3A: S-100 Test Framework <ul style="list-style-type: none"> <li>• S-100 Simple Viewer</li> </ul>	May 2014		100%	<del>May 2014</del> TBD	High	KHOA is developing a prototype SPAWAR is enhancing and modifying the COGENT software to utilize in this capacity.
6	Phase 4: S-100 Test Framework <ul style="list-style-type: none"> <li>• Preliminary S-100 Based Datasets</li> <li>• S-100 Integrated Data (S-102+S-101)</li> </ul>	1Q 2015		90%	3Q 2015	Medium	The S-57 to S-101 convertor can handle many of the preliminary test datasets.  NOAA and KHOA have a Joint Project Agreement to provide additional test

						data.
7	Phase 5: S-100 Test Framework <ul style="list-style-type: none"> <li>• Preliminary Data Validation</li> <li>• Preliminary Data Packaging and Distribution Models</li> </ul>	1Q 2015		4Q 2015	High	Work has not started on S-101 Validation checks
	Phase 6: S-100 Test Framework <ul style="list-style-type: none"> <li>• Shore Based ECDIS</li> </ul>	2Q 2015		2016	Medium	
	Phase 7: S-100 Test Framework <ul style="list-style-type: none"> <li>• Test Datasets for Full Production and ECDIS Validation</li> </ul>				Medium	
	Phase 8: S-100 Test Framework <ul style="list-style-type: none"> <li>• Data Validation</li> <li>• Data Packaging and Distribution</li> </ul>				Medium	
	Phase 9: S-100 Test Framework <ul style="list-style-type: none"> <li>• Full ECDIS</li> </ul>				Medium	