

PART 2 SUBMISSION: S-57 TO S-101 CONVERSION PROJECT

Project Details	Submission	Evaluation
<p>Project title :</p> <p>Project description:</p>	<p>S-57 to S-101 Conversion</p> <p>The goal of the S-57 to S-101 Conversion Project is to thoroughly test, and propose refinements to, the "S-57 to S-101 Conversion Guidance" document, produced by the IHO ENC Working Group (ENCWG).</p> <p>Using existing conversion tools test the Conversion Guidance document and produce outputs conformant to its contents.</p> <p>The goal of the project is not to compare technology offerings from different companies. The aim is to measure the overall conversion rate when the guidance is applied effectively and to validate those results are valid, correct and safe.</p> <p>A secondary objective is to also consider and propose methods by which ongoing co-production of S-57 and S-101 data and updates can be produced during the transition phase and any shortcomings or impacts this will have.</p>	
<p>Summary of project objectives:</p>	<ul style="list-style-type: none"> • Thorough testing of v1.0 Conversion Guidance Document against a broad set of representative ENCs and test datasets. • Impact analysis. This should detail for data producers. • The scale of likely automated and manual effort required to prepare and execute migration of existing data holdings to a form suitable for production of S-101 • An initial examination of likely resource required for ongoing production during the transition period. • Preparation of recommendations to guide version 2.0 of the Conversion Guidance Document. • Suggested conversion tool refinements. 	
<p>Summary of project deliverables:</p>	<ul style="list-style-type: none"> • Full documentation on scope and content of testing performed within the project. 	

	<ul style="list-style-type: none"> • Commentary on the existing S-57 to S-101 Conversion Guidance Document 1.0 and its recommendations. • Impact Analysis document. • Sample datasets showing <ul style="list-style-type: none"> ○ Testing results, scope achieved ○ Any issues encountered together with recommendations for resolution ○ Results of validation testing carried out • Recommendations for production documentation. • Recommendations for tool providers on implementation of Guidance Document. 	
<p>Practical relevance to Hydrographic Community/Industry:</p>	<p><u>Implementation of IHO Strategic Plan for S-100 transition</u></p> <ul style="list-style-type: none"> • In order to implement the IHO Strategic plan Goal 1, implementation of the Universal Hydrographic Data Model is a priority. The vast majority of output from IHO member states, and its primary deliverable is production of updated Nautical Charts in an appropriate format. • ENC requires particular consideration for migration to S-100 in the form of the S-101 product specification and in order to meet Goal 1, SPI 1.1.1 “operationalized production” a secure foundation for migration of existing ENC production systems and a roadmap for ongoing production must be in place for producing agencies. <p><u>Conformance with International Standards</u></p> <ul style="list-style-type: none"> • With the submission of S-100 into a revision of the IMO Performance Standard, the process of introducing live operation of S-100 to the bridge of commercial vessels has begun. As part of conformance to such standards, data producers will be compelled to support S-101 production <p><u>Roadmap for ongoing production</u></p> <ul style="list-style-type: none"> • The conversion guidance developed relates solely to the initial development of a database capable of supporting S-101 ENC. Little practical advice exists for data 	

	<p>producers in terms of ongoing support for production of data in both S-57 and S-101 forms simultaneously during the dual fuel transition period.</p> <ul style="list-style-type: none"> • Therefore, of particular relevance, and in pursuit of IHO Strategic Plan SPI 1.1.1 (“operationalized production”) is the development of advice for producers on how to implement infrastructure for such production, and to minimize rework for ongoing production of updates and new editions of ENC’s in both forms. 	
<p>Project team:</p>	<p>IHO Lab Testing team, technical support and documenting results</p> <p>Project governance: Thomas Mellor, ENCWG Chairman</p> <p>Team leaders: Christian Mouden christian.mouden@shom.fr Head of S-101 development, Shom, ENCWG member</p> <p>Jonathan Pritchard jonathan.pritchard@iictechnologies.com Senior Technical Manager at IIC Technologies, ENCWG member</p> <p>Team members: ENCWG S-57 to S-101 subgroup (IHO ENCWG Sec to supply full participation list if required)</p>	
<p>Collaborators information:</p>	<p><u>S-57 to S-101 Converters</u></p> <p>7Cs - Friedhelm Moggert-Kägeler, mo@sevens.com, Solutions Director, Maritime Spatial Data Dkart - Inga Fjellanger, inga.Fjellanger@i4-insight.com, ESRI - Tom De Puyt, tdepuyt@esri.com, Maritime Standards Caris - Hugh Astle, Astle, Hugh.Astle@Teledyne.com, Senior Development Manager</p> <p>S-100 Viewers</p>	<p>Good that they have the major software producers onboard.</p>

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Summary of project cost:	Manpower (3 technical staff) - €50K Equipment - €3K Total Costs - €53K	The value for equipment should be €3K instead if €1K as indicated in the submission.
Other source of funding:	Nil	
Do you require a Workspace at IHO Lab? If so please provide:	3 deck office space to host PCs	
GM's Recommendation to the Board:	<p>Have sought clarification from Project Team on whether the software producers have been consulted and would they be willing to assist in carrying out the testing, documentation and recommendation. If not, the Lab will liaise with the software producers and provide the assistance.</p> <p>Should the project also include a field testing of the S-101 datasets, in particular to verify any shortcomings identified by the Lab team.</p>	