

Report of the S-101 Project Team

Submitted by:	Chair, S-101PT
Related Documents:	
Related Projects:	S-100, S-101

Chair:	Tom Richardson, UK
Vice-Chair:	Mr Alvaro, Sanchez, AU
Secretary:	IHO Secretariat
Member States:	Australia, Belgium, Brazil, Canada, China, Denmark, Egypt, Estonia, Finland, France, Germany, Italy, Japan, Korea (Rep of), Netherlands, Norway, Poland, Portugal, Russia, South Africa, Spain, Sweden, UK, USA
Expert Contributor Organisations:	As this list is very long readers are referred to the following link: https://iho.int/uploads/user/Services%20and%20Standards/S-100WG/MISC/S-101PT_MEMBERS.pdf

Meetings Held During Reporting Period

The Project Team has met once since HSSC12.

S-101 PT6 – 23rd and 24th February 2021, Remote Meeting [S-101PT6 \(2021\) | IHO](#)

S-101 PT6 included an election of officers as was required following A-2. Both office bearers were happy to continue and with no further nominations they were elected for the IHO intercessional period.

The potential for a physical/hybrid meeting alongside the ENCWG in November 2021 is being explored.

Work Program

Since HSSC 12 the two sub-groups focussing on S-101 Data Content and Portrayal have met and actively progressed work plan activities. Additionally, work on validation checks for S-101 has made good progress with an initial baseline draft now being prepared.

More detail of the Portrayal Items being progressed can be found in the GitHub site.

[Issues · S-101-Portrayal-subWG/Working-Documents · GitHub](#)

The S-101PT6 meeting reviewed this progress and agreed an updated Workplan which reflects the timeframes for S-100 Edition 5.0.0 set out in S-100WG Letter 05/2020. This Workplan is included at Annex A of this report.

A number of subject papers were taken at the meeting with the most significant being proposals to reflect the outcomes of the work by the Data Quality Working Group (DQWG) on Quality of Bathymetric data in S-101 Edition 1.1.0 (Decision HSSC12/48 refers). Following the meeting, a new version (Edition 1.0.1) of S-101 Annex A – *Data Classification and*

Encoding Guide was finalised to incorporate the decisions of the meeting and has subsequently been published. This version incorporates a large number of changes to ensure alignment with the IHO GI Registry and a number of modelling changes discussed since publication of S-101 Edition 1.0.0. This new version will now support the development of an updated S-101 Feature Catalogue to support development and testing activities. It will also provide a baseline for a review cycle as set out in the S-101PT Workplan at Annex A.

The S-101 Value Added Roadmap has not been updated for some time. An active draft of this is now being developed and a small team has been formed to review and further develop this document. This document will provide a means to set out the Roadmap for S-101 to a wider audience and allows the Project Team to set out plans for stakeholder engagement. It is also envisaged that the Roadmap will include a Risk Register which logically supports the planned work to apply ISO 9001 principles.

To support the further development and testing once S-101 Edition 1.1.0 is published initial discussions on forming an Outreach sub-group to develop engagement plans and support this aspect have begun. This will be further progressed at the next meeting and work to identify specific focus areas for trials and testbeds is one area of discussion.

Various liaison activities with the S-57 to S-101 Conversion Sub-group, DQWG and S-100WG have continued.

Progress on HSSC Action Items

HSSC12/07 and HSSC 12/16

Noting the delay of publication of S-100 Edition 5.0.0 until 2022, S-101 Edition 1.1.0 will be aligned to S-100 Edition 5.0.0 and will be progressed so that publication can occur as soon as possible following publication of S-100 Edition 5.0.0. See work plan at Annex A item A1.

HSSC12/08

S-101PT6 identified that one area of support which would be required was the development of test datasets to support S-101 development and testing. This requirement has been raised to the S-100WG which will raise this requirement with HSSC.

HSSC12/18

Although there has been no real progress on this item at S-101PT level there have been useful discussions. Clarity is needed for the Project Team to understand what changes can be made within S-101 for Dual-Fuel and whether we could develop parallel Portrayal Catalogues to support both Dual-Fuel and S-100 ECDIS from the same Feature Catalogue and data. S-101PT will work with the S-100WG on this item.

Problems Encountered

The two main barriers to progress are the lack of a clear understanding of Dual-Fuel ECDIS Concept and capacity of expert contributors. It is expected that sufficient understanding will develop, and sufficient capacity will exist to deliver S-101 Edition 1.1.0. As noted above the funding in support of test dataset work will mitigate the capacity issue.

Although not a problem at this stage there is significant dependency on S-100 Edition 5.0.0 for the timeframes of S-101 Edition 1.1.0; therefore this dependency and associated risk should be noted.

The Value-Added Roadmap includes a Risk Register and it is intended to use this to communicate to HSSC once it is more mature.

Any Other Items of Note

HSSC is requested to note the progress of the Project Team since HSSC12.

A revised Work Plan is submitted as Annex A of this report.

Action Required of HSSC

The HSSC is invited to:

- a. endorse the work plan presented at annex A

Annex A – Current S-101 PT Work Plan 2021-2022 (Post S-101PT6)

A1 Develop and Finalize Edition 2.0.0 of S-101 ENC Product Specification						
Intent is to deliver an updated and more complete S-101 1.1.0 aligned to S-100 5.0.0 so that meaningful testing can support development towards 2.0.0. S-100 5.0.0 publication expected Sep 2022 (S-100WG Letter 5/2020).						
Ref	Task	Dependencies	Who	Start	End	Status
A.1.1	Review draft changes to DCEG as prepared by IHO Sec.	None	DCEG SG	01/10/2020	01/03/2021	COMPLETED
A.1.2	Conduct a review cycle of the S-101 Data Product Specification and DCEG. Includes comment review.	None	ALL	01/03/2021	30/06/2021	PLANNED
A.1.3	Interim FC (1.0.1) to be generated to support testing.	A1.1	KHOA	01/03/2021	31/03/2021	IN PROGRESS
A.1.4	Process registry changes resulting from review of the DPS and DCEG.	A.1.2	IHO Sec	01/07/2021	01/08/2021	PLANNED
A.1.5	Prepare an updated Feature Catalogue for S-101 1.1.0.	A.1.2/A.1.4	KHOA	01/09/2021	31/10/2021	PLANNED
A.1.6	Prepare new and updated Portrayal content.	A.1.2	Port SG	01/10/2020	31/08/2021	IN PROGRESS
A.1.7	Process registry changes resulting from Portrayal work.	A.1.6	IHO Sec	01/09/2021	30/11/2021	PLANNED
A.1.8	Prepare a complete PC for S-101 1.1.0.	A.1.5, A.1.7	Port SG	01/12/2021	01/01/2022	PLANNED
A.1.9	Develop and review Portrayal Annex	A.1.5	Port SG	01/09/2021	01/03/2022	PLANNED
A.1.10	Prepare an initial draft set of S-101 Validation Checks. (Critical checks as a minimum)	A.1.2, A.1.5, A.1.8	VC SG	01/04/2020	31/03/2022	IN PROGRESS
A.1.11	Finalise S-101 Test datasets*	A.1.5, A.1.8, A.1.10	TBD	01/01/2022	30/05/2022	PLANNED
A.1.12	DQWG to conduct review of S-101 draft components.**	Various	DQWG	01/05/2022	31/07/2022	PLANNED
A.1.13	Prepare content for publication.	Various	IHO Sec	01/08/2022	31/08/2022	PLANNED
A.1.14	Conduct pre-publication quality checks.	A.1.13	ALL	01/09/2022	01/10/2022	PLANNED

* Test Datasets for developmental purposes will be provided earlier to support development this task relates to test datasets for S-164 specifically.
 ** Individual components will be provided to the DQWG for review when ready in order to manage the workload.

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A2	Monitor the implementation of S-101 to S-100 Readiness Level 4					
Ref	Task	Dependencies	Who	Start	End	Status
<i>Detailed plan to be developed by during 2021 - Chair to lead S-101PT 5 Action refers</i>						
	Develop implementation plan.					PLANNED
A3	Review the S-101 Value Added Roadmap annually					
Ref	Task	Dependencies	Who	Start	End	Status
A.3.1	Chair to prepare updated draft.	None	Chair	01/10/2020	S-101PT7	IN PROGRESS
A.3.2	Conduct a review cycle.	A.3.1	All	S-101PT7		PLANNED