

14th Meeting of the WENDWG

Introduction of ISO 9001 principle for WEND100 related matters

The experience of the HSSC ISO Cell on S-101

By Region G (EAtHC) Cartographic Coordinator in liaison with HSSC Vice Chair

Agenda Item 07.1C



IRCC15 ACTION FOR THE WENDWG

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• IRCC15 – Action 6:

WENDWG to liaise with HSSC on how to mirror the HSSC ISO Cell on S-101with the following scope: RHC S-101 production/coordination/distribution in the near future.

HSSC ISO Cell on S-101

The Cell is set up for the application of ISO 9001 in the management of the development of S-101 Product Specifications.

The extension to S-98 and S-164 vas decided at the last HSSC meeting.



HSSC ISSUES IN 2021: TO MASTER KEY TASKS

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- S-100 interoperability is complex: it demands harmonization between products specifications (PSs) and so interaction between WGs which in turn need harmonization between timeframes.
- Factors have great impact on the development of the PSs: S-100 Ed 5.0.0, software and test data sets availabilities, ...
- Monitor the critical path to Ed 2.0.0 of S-101 PS is the important challenge, to mitigate the risk of scope creep
- → To experiment a project management approach compliant with ISO 9001 Principles, focused on the tasks for the development of the Ed 2.0.0 of the S-101 PS.

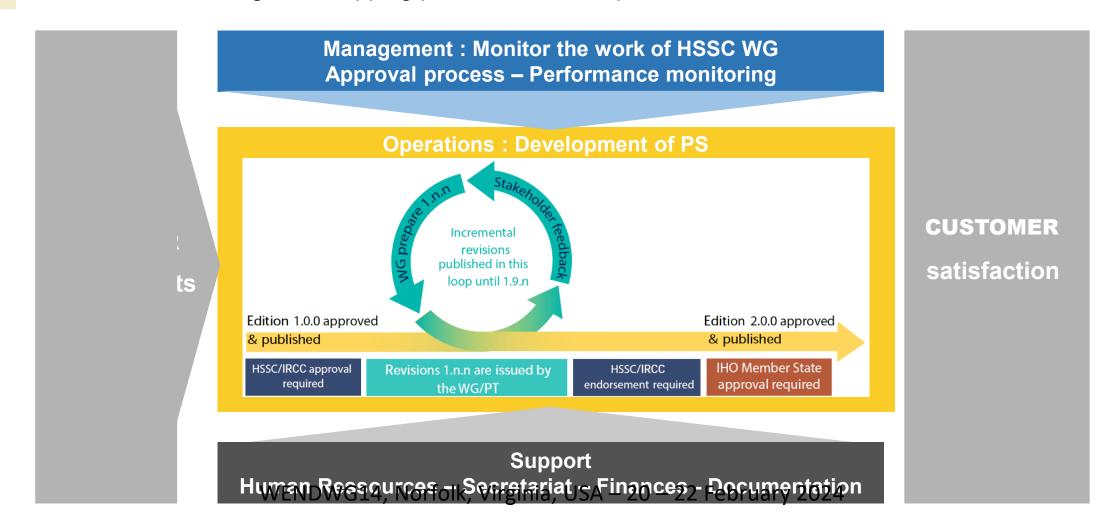


IHO

GLOBAL VISION OF THE APPLICATION OF THE ISO 9001 PRINCIPLES TO THE DEVELOPMENT OF S-100 PS

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- Define & manage processes and their interactions
- Identify key processes : Management/ Operations/ Support
- → here is a global mapping process for development of S-100 PS





THE EXPERIMENT PHASE

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Experiment in 2021

Initiated by 2 ISO 9001 experts (Swedish Maritime Administration) and the HSSC Vice Chair

Supported then with contributions from the chairs of the DQWG, S100WG and S101WG.

Achievements:

Process scheme of S-101 Product Specification 2.0.0 development

Process description of S-101 PS 2.0.0 development

Risks and opportunities management of S-101 PS 2.0.0 development document

All the ISO 9001 requirements are not applied (quality audits, handling anomalies, certification,...)



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Input

Process scheme S-101 Product Specification

Output

Approved S-101 Edition 2.0.0

The IHO Secreteriat

publish and publicize

New Edition

Approved S-101 Edition 1.0.0

Needed development and amendment of IHO's technical standards



Document: M3, Resolution of the IHO

S-97, IHO Guidelines for Creating S-100 Product Specifications

S-99, Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry

S-98, Specification for Data Product Interoperability

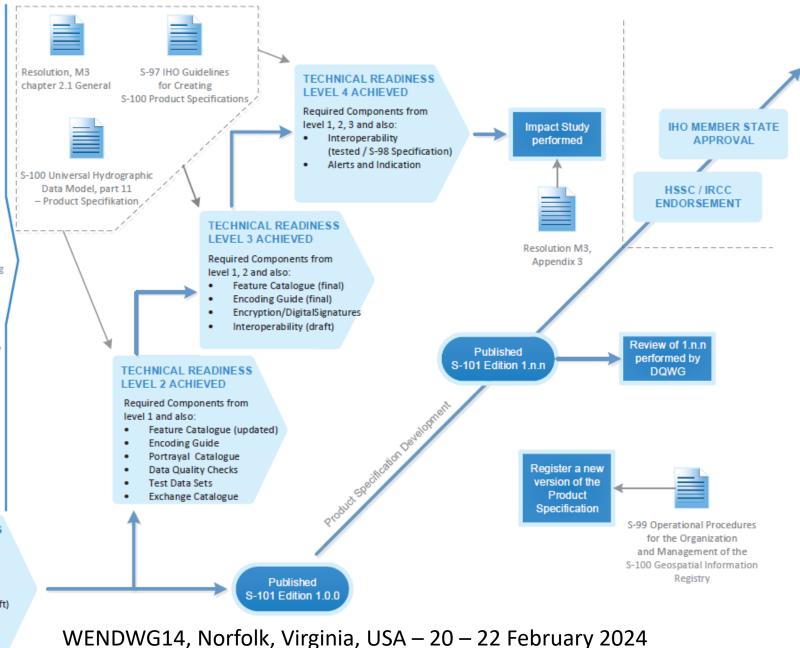
S-100, Universal Hydrographic Data Model

> Stakeholder feedback

TECHNICAL READINESS LEVEL 1 ACHIEVED

Required Components:

- Main Document
- A Default Encoding
- · Feature Catalogue (draft)
- · Encoding Guide (draft)





THE « OPERATIONAL » PHASE

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- 1. Organisation setup in 2022: "HSSC ISO cell" and "Project Control Officers" (PCOs)
- 2. HSSC ISO 9001 cell composed by DQWG chair, 1-2 experts of ISO 9001, S-101 PCO (S-101 PT Vice Chair) and HSSC PCO (HSSC vice chair)

S-101 Project control officer (PCO) (S-101 PT Vice Chair) is responsible for overseeing the (technical) progress of the development of S-101 PS to operational edition 2.0.0.

HSSC PCO in charge of overseeing the activities related to the application of some ISO 9001 principles.

3. The "HSSC ISO 9001 cell" defined a performance indicator of S-101 PS development, consisting on pertinent milestones and built on a GANTT diagram highlighting the major actions. The Cell established also the opportunities and the risks to manage.



EXTRACT OF THE LIST OF THE TASKS FOR THE GANTT DIAGRAM

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Finalise S-101 DCEG (data model) & FC 2.0.0

Approval of S 101 PS 1.1.0	23-nov-22 25/Nov/22
Approval of DCEG 1.1.0	23-nov-22 25/Nov/22
Submit S-101 PS & DCEG-version 1.1.0 for S100WG approval	05-déc-22
Perform portrayalgap analysis between FC/DCEG 5 101 1.1.0 & PC 1.0.2	28-nov-22 06/Jan/23 This includes the updating of rules as regired but, if new symbology is required, a full creation-approval cycle must be added to the GANTT.
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Upload 5-101 PC 1.1.0 Draft to Github for peer review	20-févr-23 20/Feb/23
Complete submission of new portrayal change proposals (included in PC 1.1.0) to the GI Registry	31-oct-22 03/Mar/23
S-101 P.C.1.1.0 Peer-review process in Github	21-févr-23 13/Mar/23
	All new and S-57 remodellled features/attributes must be included in this version.
Publish S-101 Portrayal Catalogue 1.1.0 in Gl Registry	31-mars-23 31/Mar/23
Publish S-101 Feature catalogue 1.1.0 in GI Registry	06-févr-23 31/Mar/23
Publish 5-164 Version 1.0.0	As per M-3 Resolution 2/2007 (as amended), the approval process for Edition 1.0.0 (Development Phase) involves: 09-juin-23 09/Jun/23
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Conduct a final 1:2.0 review cycle of the DPS and DCEG	20-sept-23 27/Oct/23
Submit to S-100WG8 for endorsement of completed 1.2.0 components (DPS & DCEG)	06-nov-23 14/Nov/23
Resolve comments from review and prepare final documents including Feature Catalogue 1.2.0	30-oct-23 22/Dec/23 DQWG consistency review follows in parallel
Drawn 1.3.0 Restroyal Catalanus Validation Chaules and Tout Reteats	06-nov-23 29/Feb/24
Prepare 1.2.0 Portrayal Catalogue, Validation Checks and Test Datasets	WHAT 23 ZIN COLT
Request S100WG approval of S-101 version 1.2.0 by S101PT CL	01-mars-24
Finalise S-98 edition 1.2.0	DWG14, Norfolk, Virginia, USA – 20 – 22 February 2024

19-févr-24 31/Mar/24



TO BE DISCUSSED AT THE WENDWG

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Bearing in mind that the IRCC expectation on the ISO Cell is on RHC S-101 production/coordination/distribution in the near future,

On the basis of the TORs of the WENDWG (in particular: develop proposals to support the S-100 products development, maintain the WEND100 principles and the Guidelines for their implementation),

What are the tasks **most necessary and challenging** for the development of the ENC and S-100 coverage, that could be mastered by a ISO management process?



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THANKS