



15th Meeting of the Hydrographic Services and Standards Committee

Report on the application of some ISO 9001 Principles in the development of S-101 PS

Agenda Item 05.5B

HSSC-15, Helsinki, Finland, 5 – 9 June 2023



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PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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1. The GANTT diagram and Risks and Opportunities Management Purposes document are maintained by the S-101 PCO.
2. Action HSSC14/18 is considered **COMPLETED**. A meeting has been held in Monaco on Friday 2 September 2022 with the IHO Secretariat. The minutes (Appendix 1) includes recommendations for improving the resilience of the IHO GI Registry. These recommendations might be considered for the establishment of a structure for the management of the framework for S-100 in the long term.
3. Action HSSC14/63 is therefore considered **COMPLETED** as significant progress has been made on the development of the Portrayal Catalog, with the achievement of the following milestones :
 - S-101 Portrayal Catalogue version 1.0.2 published - November 2022;
 - S-101 Portrayal Catalogue 1.1.0 published in GI Registry – March 2023.



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PROBLEMS OR OUTSTANDING ISSUES

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S-101 PS progress towards Ed 2.0.0 depends on :

1. **Resources** : active contributions from MS & additional fundings
2. **Progress of others PS development** (especially S-164 & S-98)
3. **Testbed activities for DF concept & interoperability** : essential for operational use of S-101 PS

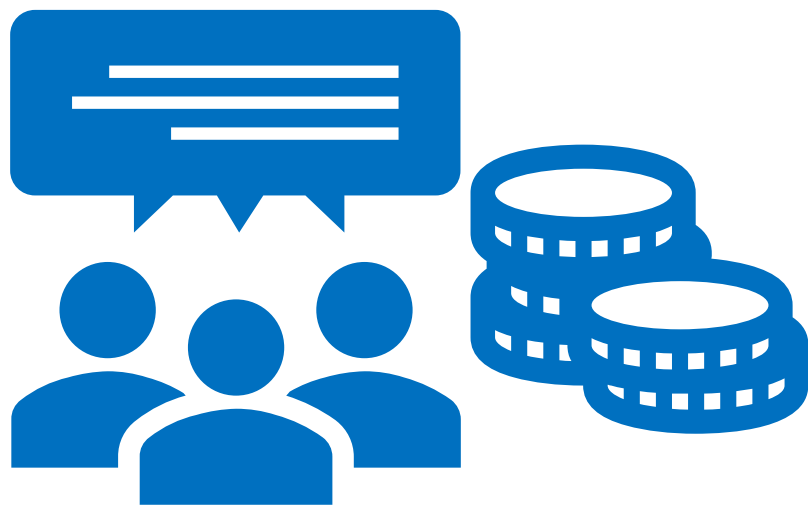


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MAJOR RISK : LACK OF RESOURCES

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Control & Mitigation



- active contributions from Members States
 - + additional funding
- ➔ Monitor an “Effort KPI” of S-101 PS development = work funded either via IHO or others.
- ➔ This “Effort KPI” can be a second KPI of S-101 PS process (the first one being the Progress on milestones from S-101 Ed 1.0.0 to Ed 2.0.0 measured through the GANTT diagram).



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MAJOR RISK : INSUFFICIENT TIME TO TEST DUAL FUEL CONCEPT IN S-100 ECDIS PROTOTYPES

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Testing DF concept

S-101 tests data sets
compliant with S-164 PS

S-100 ECDIS prototypes

Testbed environment

Control & Mitigation

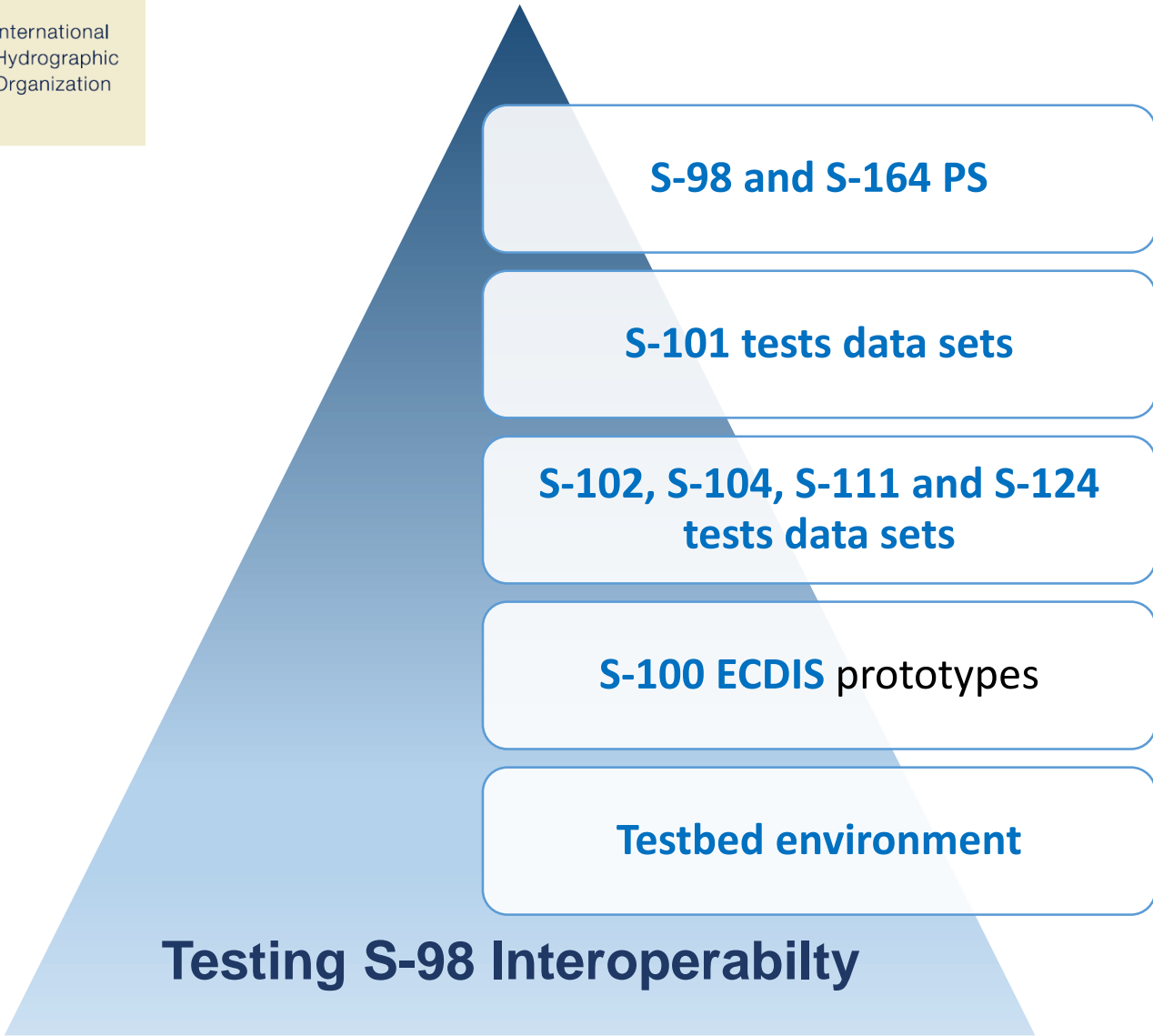
- ✓ S-100 ECDIS prototypes started to emerge
- ✓ several testbed projects already on track
- ➔ an **agile approach** with effective feedback loops to support testing and **ensure feedback is actioned and traceable.**
- ➔ Expand the **use of Git to track and manage efficiently the different versions of PS.**
- ➔ **Projects results should be considered as documented information that needs to be retained, centralized and made accessible** from a page on the IHO website. “S-100Ressources” webpage should be the focal point (<https://iho-ohi.github.io/S100Resources/>) web pages that are no longer used should be archived.



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MAJOR RISK : INSUFFICIENT TIME TO TEST S-98 INTEROPERABILITY IN S-100 ECDIS PROTOTYPES

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- ➔ Monitor the interdependencies between Product Specification S-101, S-98 and S-164
- ➔ specify the exact needs without over-specification, especially for S-98



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PLANNING DEPENDENCIES / ALIGNMENT OF TIMELINE & MILESTONES : KEY FACTOR FOR PROGRESS TOWARDS OPERATIONAL PS

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Review Cycle for WG/PT Development Phase (Edition 1 to Edition 2)



S-100 Ed 5.0.0	>>>	5.1.0	>>>	5.n.m
S-101 Ed 1.1.0	>>>	1.2.0	>>>	2.0.0
S-102 Ed 2.2.0	>>>	2.3.0	>>>	3.0.0
S-104 Ed 1.1.0	>>>	>>>	2.0.0
S-164 Ed 1.1.0	>>>	>>>	2.0.0
And so on ...				

Edition 1.0.0 approved & published

Edition 2.0.0 approved & published

HSSC/IRCC approval required

Revisions 1.n.n are issued by the WG/PT

HSSC/IRCC endorsement required

IHO Member State approval required



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ACTIONS REQUESTED FROM HSSC

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The HSSC is invited to:

- a) **Note** this paper
- b) **Consider** the principle to expand the scope of the ISO Cell to S-164 and S-98 developments and designate a PCO from the S-164/S-98 subWG to join the ISO Cell and participate to maintain Gantt diagram and risk management documents.
- c) **Consider** the monitoring of a “Effort KPI” as a new KPI for the S-101 PS process (the first one being the Progress on milestones from S-101 Ed 1.0.0 to Ed 2.0.0 measured through the GANTT diagram)
- d) **Consider** the need to ensure traceability of tools, documentation and feedback from testbed activity and make it easily accessible from a unique landing page: “S-100Resources” webpage (<https://iho-ohi.github.io/S100Resources/>)
- e) **Initiate** any further actions as considered necessary.