



MINISTÈRE DES ARMÉES

2018-2019 Inter-WG status

Gwenaële Jan TWCWG4 (2019, Busan, Republic of Korea)

2019-04-08

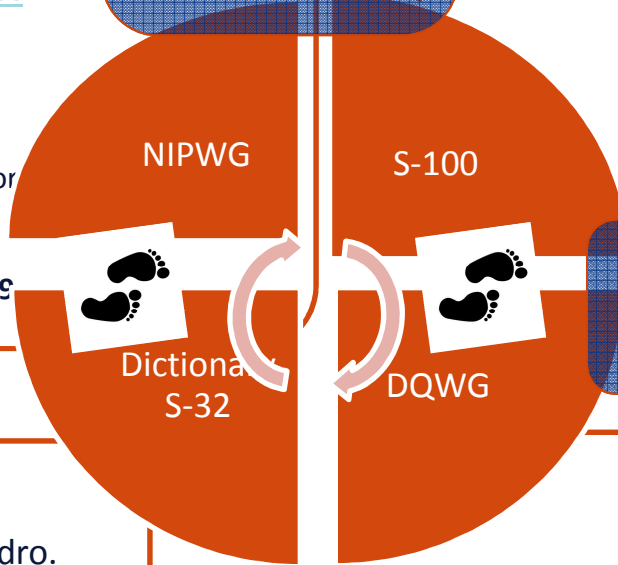
R: Reviewed by TWCWG
 TBR: review to be done by TWCWG

- **2018:** Maritime Services description draft (R)
- **2019 04:** [Doc](#)
- Guidance to complete, design the Maritime Services MS15
- + HGDM draft MS15 submitted to NCSR6, & to MSC101 in **June 2019**. [Doc](#)
 All MS were deemed to be evolving and therefore the IMO anticipated they will be amended **TBR**
- Interactions with NIPWG members
- S-126 discussion: def of actions scope for debate TWCWG4
- NIPWG doc, status report, strategy implementation (2019-03-25 **TBR : 2019 08**)

IMO NCSR
 NAVIGATION,
 COMMUNICATIONS
 AND SEARCH AND
 RESCUE

- **2018, 2019:** S-111 PS
- 2018-2019 : Strategy implementation (R+ **TBR**)
- Details next slides

SPRWG : S-100
 strategy
 implementation



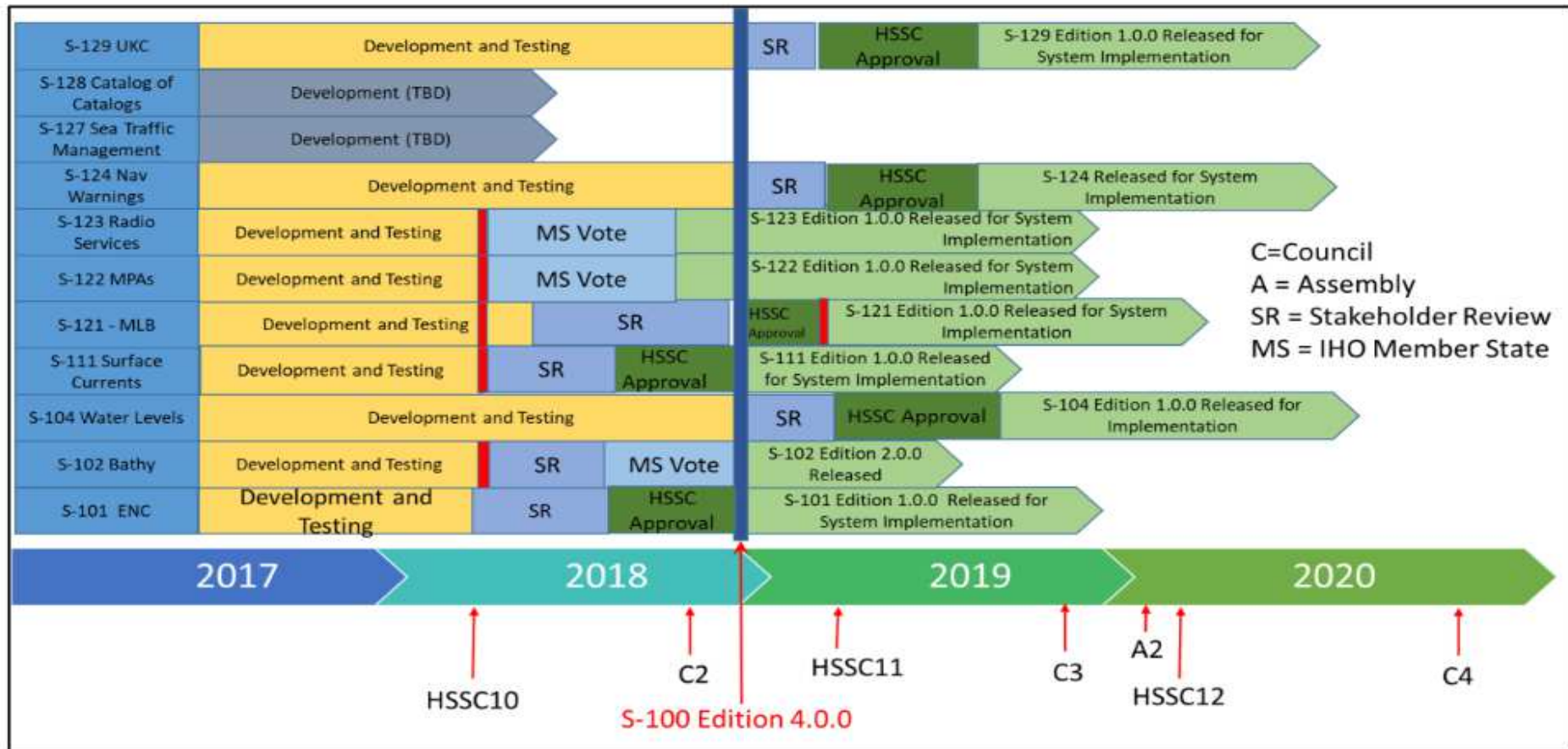
S-129

For our information =
 Input for S-104
 Received 2019-04
 Tide, portrayal, model [draft](#)

- S-32 template Hydro. (2018) Dictionary (2018-12) **TBR** For our review 2019-05

- 2018 TWCWG asked for a review of (S-111, S-104)
- DQWG mail 2019-04 [From DQWG: a shared interest between chart producer and user](#) **TBR**
- Paper for Consideration by Data Quality Working Group Data Quality : Gridded data, IMO test cases

TIMELINE : S-100



S-100 scope to be considered : Portrayal purpose : Works is going one.

- Use cases needed in the S-100 wake, because interoperability depends on the products use context.
- Framework defined by IMO (« Guidelines for the harmonized display of information received via communications equipment » et S-MODE) [to be considered](#).
- Risk: Development of concepts that don't fit the end user needs.
- NIPWG input : [strategy implementation](#) (2019-03-25 **TBR : 2019-08**) **see business cases in doc.**
- **Suggestion :**
 - Include elements of S100 strategy + Continue to share exp.ce with other WGs + AND define test cases.
 - TWCWG review and send feedback to NIPWG : 2019-08) . Volunteers? NIPWG approach provides some good suggestions.
 - List the TWCWG concerns, issues and linked them to points identified in the documents.

Ideas shared in the scope of S-100 WG:

- Prioritize the products S-100 each other.
- Position of the S-100 products in comparison with OMI products.
- Promote an approach focused on end users, mariners.
 - What for? The need.
 - In which context?

Interoperability at the center of ECDIS process

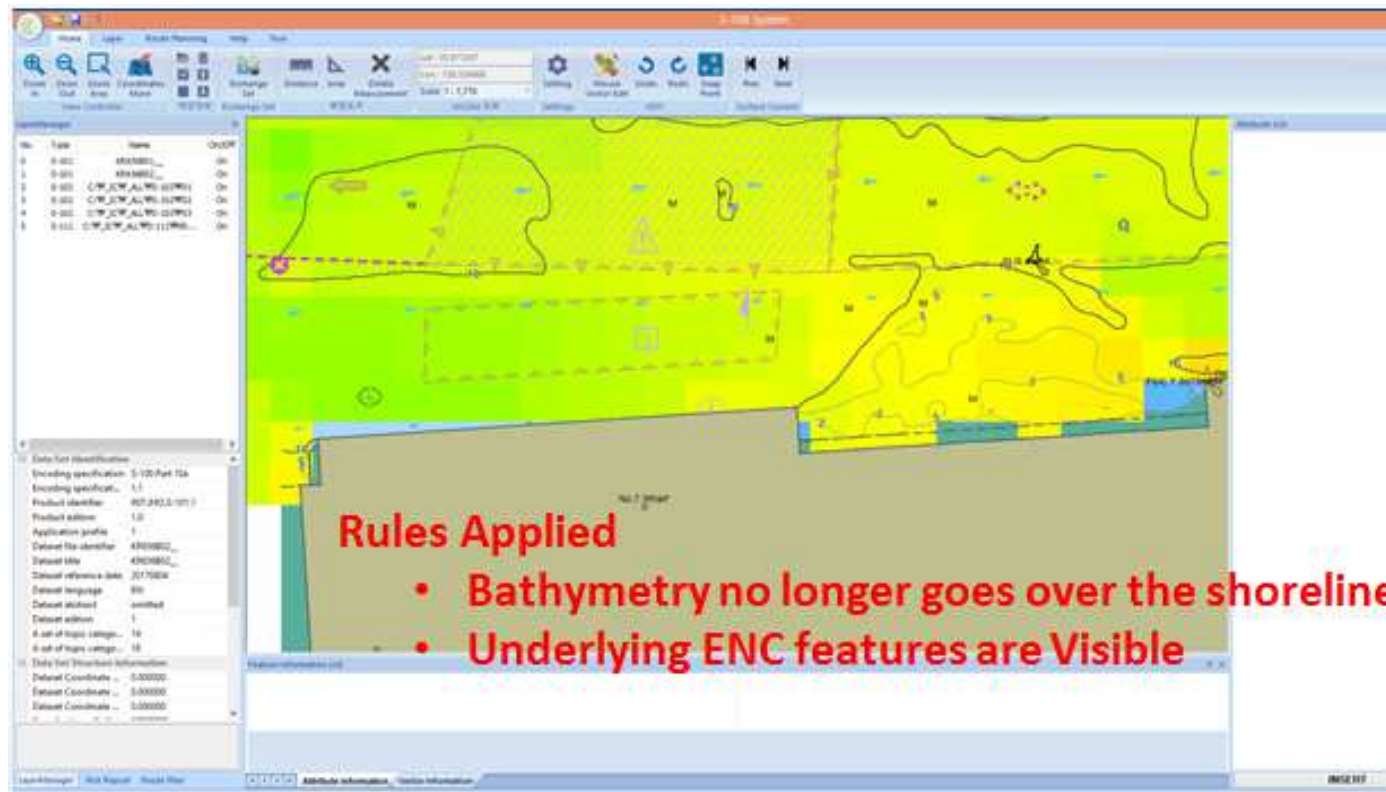
- ECDIS S-100 not described,
- S-100 Implementation strategy has started.

There is a need to define ECDIS S-100 and test interoperability : Test case, show cases, considering route monitoring and route planning

And there is a need to define precisely the scope of the products to consider. Testbed strategy meeting (2019) ?

SPRWG Strategic Plan Review Working Group, : S-100 strategy implementation (=> HSSC11)

- Publications S-98, ed. 1 scheduled for 2019 :
 - ✓ Ed. 1 submitted to HSSC11 (2019, May)



- Tests : S-100 done by South Korea

- ✓ Products creation: S-101, S-102, S-111, etc;
- ✓ Data set created for S-100;
- ✓ ECDIS S-100 prototype done (2screens);
- ✓ In situ test;
- ✓ Go/No Go areas with data S-102 (bathy) et S-104 (tide).

So:

- ✓ TWCWG asks to S-100WG if the outputs of this work are available to consult them

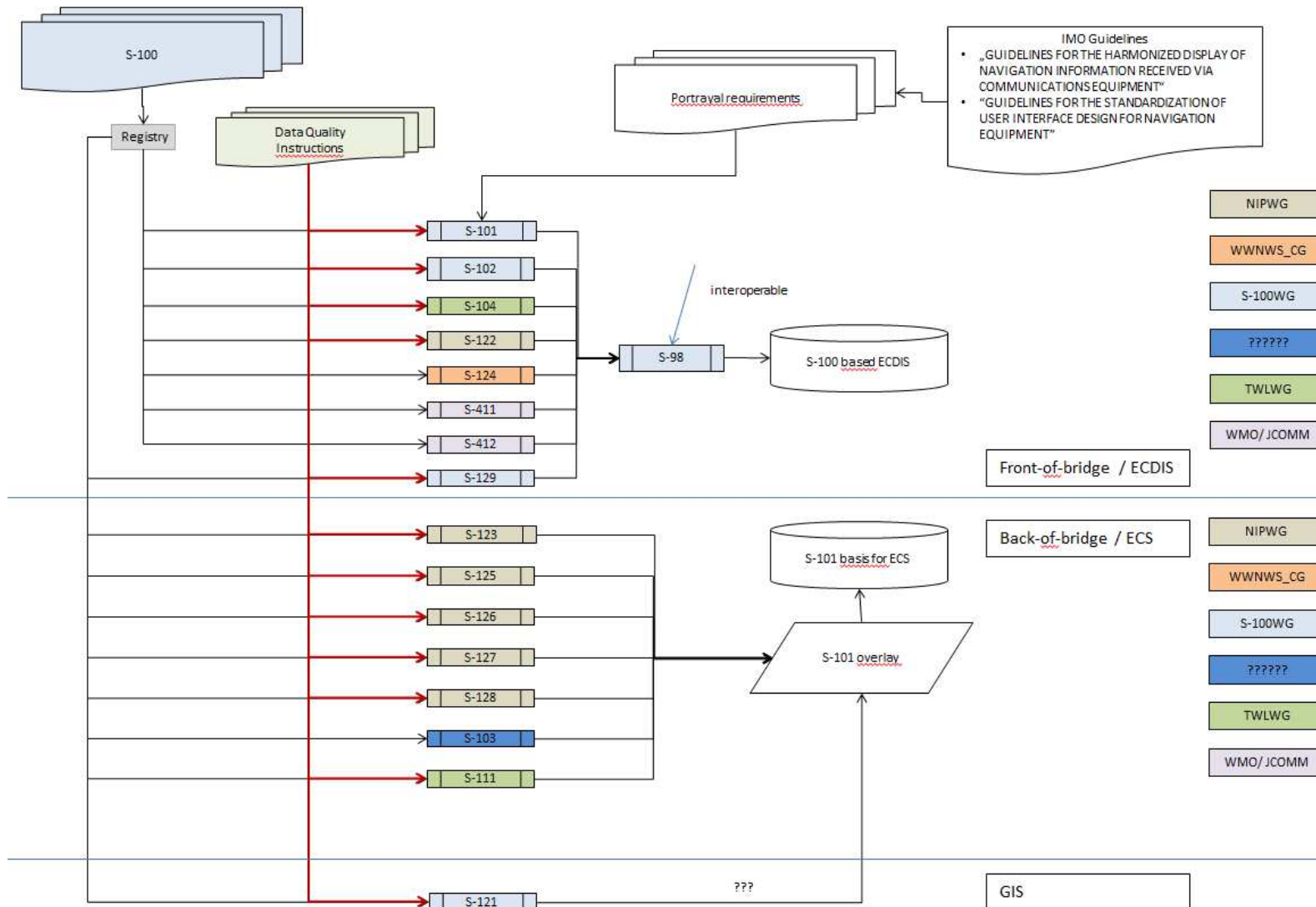
WGs feedbacks provided but could still be provided (in- line with reference to the IHO Strategic Plan)

- Governance
- IMO directions
- Main actors to implement the Strategy
- HOs role
- Future role of RENCs
- WEND principles
- Industry involvement
- Provision of standards
- PSs: interoperability, (backward) compatibility, quality harmonization, cyber security, synchronization, operationalization, dissemination, and distribution
- ENCs future

Only part of such topics can be covered by HSSC, as others fall under the remit of IHO Secretariat, COUNCIL and IRCC.

- Standards submitted to HSSC 11
 - S-121 Maritime Limits Boundaries (Ed 1.0.0)
 - **S-98 Interoperability specification (Ed 1.0.0)**
 - S-97 Guidebook for developing S-100 product specification (Ed 1.0.0)
 - S-102 Bathymetric content specification (Ed 2.0.0)
 - S-129 Underkeel Clearance Management (UKCM) Information (Ed 1.0.0)

Front-of-bridge/ECDIS & Back-of-bridge/ECS



S-100 CLOUD SERVICE DISTRIBUTION

Extrait de https://www.iho.int/mtg_docs/com_wg/WEND/WENDWG9/PRIMAR%20S-100%20development%201.2.pdf

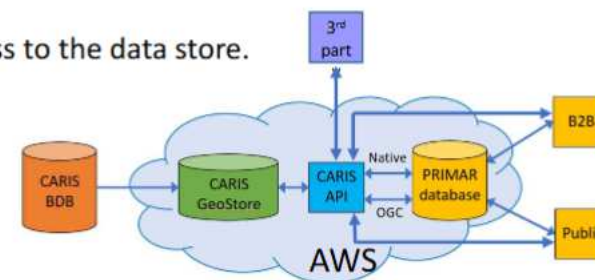


S-100 Data as a Service



Pilot Project Overview:

- This pilot will allow CHS, Teledyne CARIS and PRIMAR to demonstrate its ability to provide a service that consumers of bathymetry data can subscribe to.
- Data will be available in pre-determined geographic areas of interest.
- By bathymetry data we mean coverages, vector features and S-102 products.
- CARIS will develop a cloud hosted datastore located outside of the CHS infrastructure.
- CARIS will develop a rich API providing 3rd party access to the data store.
- PRIMAR will expand its existing database and web applications to provide a store front to subscribe to the latest available S-102 bathymetry data and access OGC services.



FREEDOM TO CHOOSE

2019-04-08

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Extrait de https://www.iho.int/mtg_docs/com_wg/WEND/WENDWG9/PRIMAR%20S-100%20development%201.2.pdf



S-100 Data as a Service



Pilot Project Objectives:

- Garner support from potential stakeholder groups e.g. hydrographic offices, ports, pilots, other government agencies, global mapping initiatives (Seabed 2030).
- Expose the hydrographic community to these capabilities to foster support for the potential benefits of S-102 and bathymetry as a service.
- Explore potential for use of S-104 and S-111 standard for supplementary services.
- Refine the cloud and service technology to work towards a robust and commercially viable service.
- Determine the costs involved in offering cloud based storage and services.
- Develop innovative business models to ensure customer adoption by providing value added benefits for stakeholders.

- **S-58** (ENC tests)
 - ✓ Edition 6.1 accepted 2018 Sept.(Application scheduled for 01/09/19) ;
 - ✓ Data sets will be (are) delivered for the tests.
 - ✓ From Tony Pharaoh (OHI) a S-58 databasis will be done → « machine readable ».
- **ENC bathymetry**
 - ✓ UKHO presentation (technical process) et AUS (evaluates the need) ;
 - ✓ Sub WG ceration in charge of providing a guide on how to producce and maintain an ENC bathymetry

Comment : Don't forget the readability (info density, generalization degree, isobathes smooth).

Next ENCWG meeting joint with S-101PT : June 2019, Monaco



TWCWG HSSC10 report
[Talk 2018-05](#)

- HSSC11-05.5B (DQWG Chair) Proposal for a conditional method to display quality information in an ECDIS
- HSSC11-05.1D S100 Technical Readiness levels
- HSSC11-05.3B (NIPWG) Summary of M-3 amendments proposal
- HSSC11-05.1F (Canada, Norway, PRIMAR, Caris, OGC) S-100 Cloud Service Distribution

TWCWG volunteers to summarize the content of these papers?

Thank you

