



14th Conference of the Arctic Regional Hydrographic Commission

S-100 in Region N – Outcome of WENDWG-14...and more

Agenda item D2



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Since WENDWG-13 (2023), what's **new**?...

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1. List of INT Charts / ENC's / **S-100** Coordinators (draft version x.x)

- www.iho.int > Publications > Standards&Publications > Temporary on S-11 Part B ([link](#)), ...to be moved to new S-11 Part C, as now approved by IRCC-16.
- Region N Coordinator: Ms. Siri Reimers (Siri.Reimers@kartverket.no). Work Plans to be established.

2. **S-11 Part C**

- Mirroring S-11 Part A, which is well-known, → new **S-11 Part C** “*Guidance for the Preparation and the Maintenance of Electronic Navigational Data Services (other than S-101 ENC's)*” , content under development, for submission to IRCC-17, keeping HSSC informed.



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3. RHCs / Charting Regions (including Region M) **Readiness Assessment for Phase I S-100 Products and ENDS**

- capabilities-based approach at regional level, transition to S-101, harmonized implementation worldwide as far as possible.
→ ARHC ~ LOW readiness level (due to incomplete reporting)

4. **INToGIS III, under development, for scheming/planning availability and coverage of S-101, and other Phase I Products and ENDS**

- Aim: a well-known tool to be in capacity at the IHO Secretariat level, on behalf of MS / RHCs, **to report from 2025 onwards at IMO NCSR** meetings and other Stakeholders events, on the expected availability and coverage of S-100 ENDS (when, where, who?) – More under agenda item D2



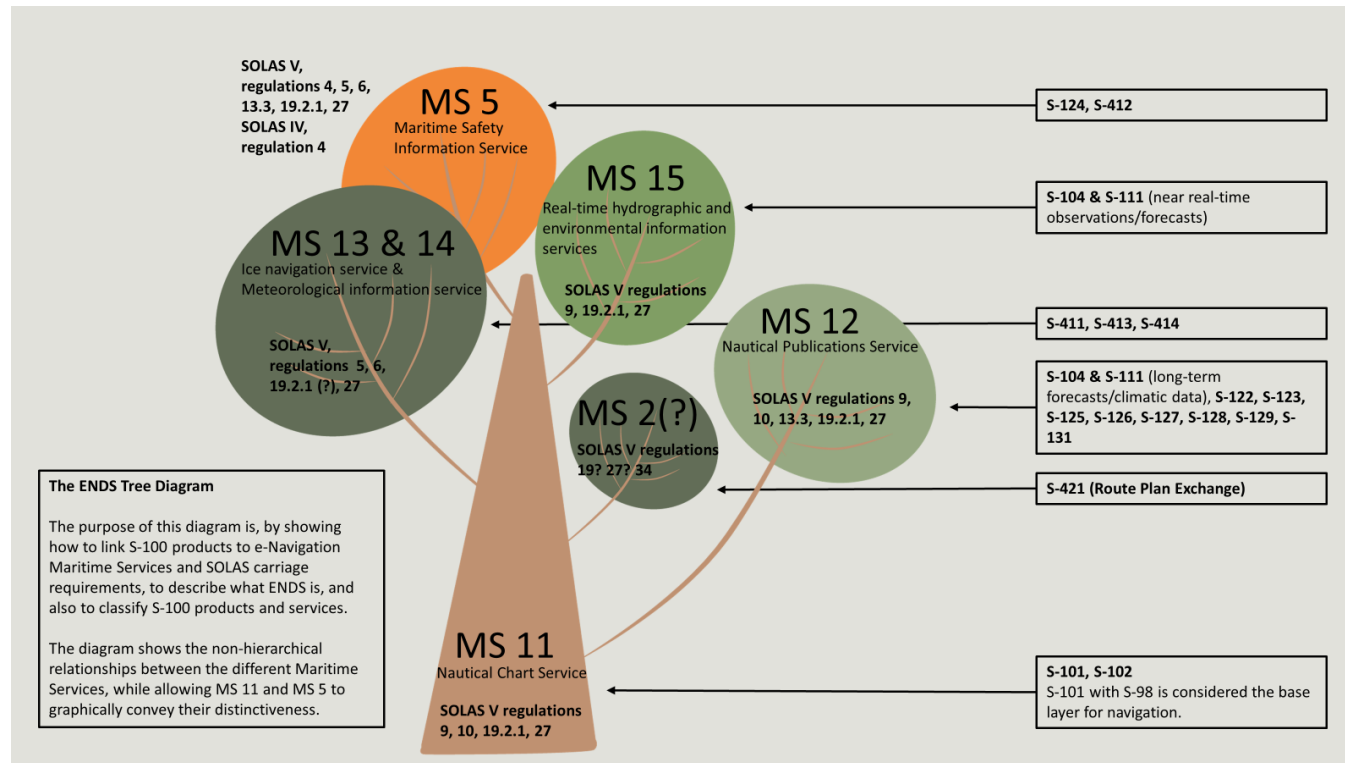
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5. Meeting SOLAS Requirements with S-100? **Work in progress within NIPWG**

- Reported at HSSC-16: the “ENDS Conceptual Tree Option”





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6. Transition from S-57 ENC's to S-101 ENC's

- no global worldwide grid, different options for different regions: ARHC (towards a common rectilinear grid?), EAtHC (6 UB S-57 layers are converted in equivalent S-101 scale bands, producers are those who used to produce S-57), BSHC quite advanced...



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S-101 (S-102) SCHEMING PLANS IN THE BALTIC SEA (STATUS 05/2023)

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Country	S-57	S-101	S-102	Remarks
Denmark	Grid/regular grid	Regular grid	Regular grid	
Estonia	Grid	Grid	Grid	No plans to change now
Finland	Grid	Grid	Grid	Have tried regular grid before
Germany	Grid/regular grid	Regular grid	Regular grid	
Latvia	Grid	Not decided	Not decided	
Lithuania	Grid	No info yet	No info yet	
Poland	Grid	Grid	-	Has studied reg grid
Russia	Grid	No info	No info	
Sweden	Grid/regular grid	Grid/regular grid	Grid/regular grid	



Concerns raised by RHCs, if finalization of S-101 Prod Specs is delayed: no production possible by 1 Jan 2026



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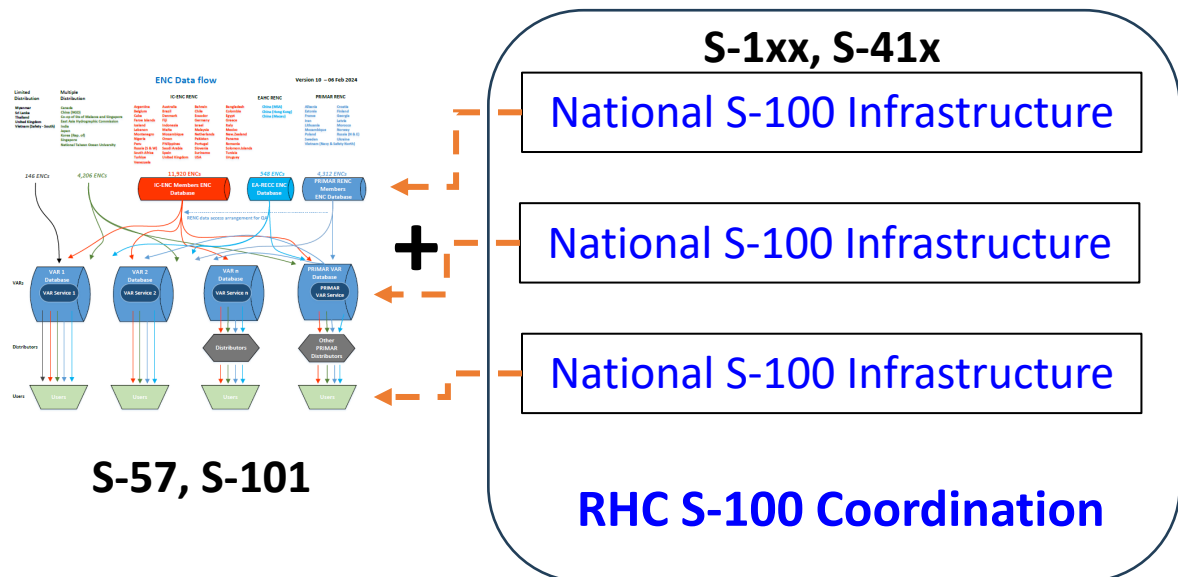
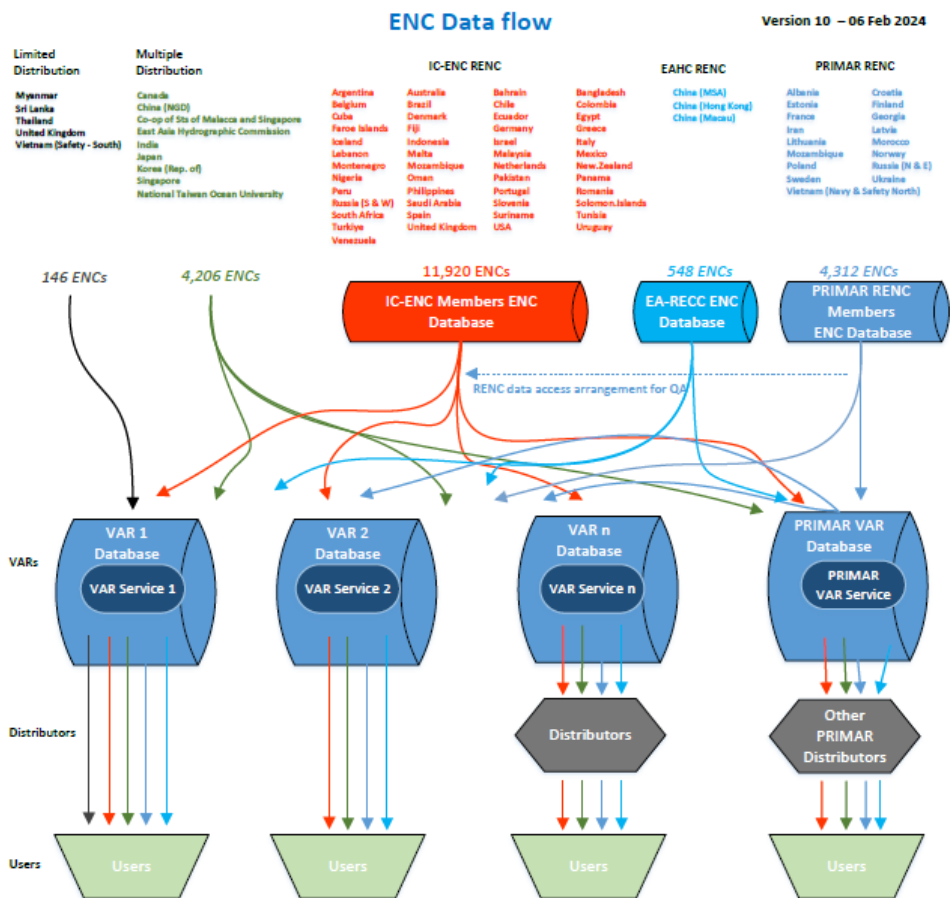
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7. From S-57 ENC Data Flow

to

S-100 Data Flow



Supported by

S-98, S-100, S-164, S-128

S-11 Part C, INTOGIS III

IHO S-100 Infrastructure
inc. S-100 Security Scheme,
S-100 Communication Strategy

Source: RENCs. Available on WENDWG >... > [Repository](#)



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Recommendations, Actions to be considered

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- iaw @WENDWG14/23, **ARHC to acknowledge** that the S-100 strategic approach to support and attract end-users for the IHO is **not** to complete the full S-101 coverage first, then consider the other products, ...
... **but** to engage the IHO into the development of a new distribution model, including cybersecurity and integrity measures and ensuring that end-users can easily access and get all S-100 Phase I products and ENDS in confidence along a given route;
- based on the above, that **ARHC S-1xx Coordinator takes appropriate actions** (Work Plans for individual Phase I Products ENDS), by anticipation of the availability of Ed.2.0.0 Product Specs;
- **ARHC to support** the S-100 communication strategy towards end-users, manufacturers, IMO, addressing readiness and expected geographic coverage of S-100 based products and data services in the following years, from 2026 onwards (*still to be developed*) (WENDWG13/08 and WENDWG14/20 refer).