

Combined 10th Meeting of ENC Working Group and 16th Meeting of S-101 Project Team

Busan, Republic of Korea, 01 – 05 September 2025

Contribution to the IHO Work Programme 2025

Task 2.1.2.1;
2.1.2.2; 2.1.2.11 Organize, prepare and report annual meetings of the ENC Working Group and S-101 Project Team

High level summary

- The ENCWG portion of the meeting reviewed the status of the various publications under its remit (S-52, S-57, S-58, S-62, S-63, S-64, S-65), including versions of these publications intended to support S-100 implementation in the dual-fuel environment (S-52 Annex A:100, S-64:100, S-65 Annexes B and C). A progress report was also provided on the development of the S-63 Security Scheme for S-100 ECDIS.
- The meeting agreed to proceed with the preparation of a new Edition of S-58 for submission to HSSC18 (2026). The mechanism for taking into account uncertainties in bathymetric data included in S-57 ENCs in S-100 ECDIS display was also discussed.
- The S-101PT portion of the meeting received reports from the Sub-Groups responsible for the development and maintenance of the various components of S-101; and discussed proposals from Member States and Expert Contributors for improvements to the S-101 Product Specification based on S-101 product compilation based on, and implementation of, S-101 Edition 2.0.0.

Details:

The combined 10th meeting of the ENC Working Group (ENCWG10) and 16th meeting of the S-101 Project Team (S-101PT16) was held from 01 to 05 September 2025 in Busan, Republic of Korea. A total of 59 participants attended the meeting, including 6 who joined remotely. Delegates represented 22 IHO Member States, as well as representatives from IALA, WMO, NATO, IEHG, and IEC. The 10th meeting of the ENCWG was conducted on 01-02 September with Mr Tom Mellor (UK) as Chairperson; and the 16th meeting of the S-101PT was conducted on 03-05 September with Mr Tom Richardson (UK) as Chairperson. The IHO Secretariat was represented by Assistant Director Yong Baek and Technical Standards Support Officer Jeff Wootton.

Main Discussions and Decisions:

ENCWG10

The meeting agreed to proceed with the finalization of a new Edition of S-58 – *ENC Validation Checks*, including a review of the categorization of all Checks listed as Critical. The final draft Edition 9.0.0 is to be completed for submission to the ENCWG for endorsement by correspondence in time for it to be submitted to HSSC18 (May 2026) for endorsement.

The meeting agreed to consider further development, initially as improved encoding guidance, for the capability of S-100 ECDIS to take into account bathymetric data horizontal and vertical accuracies in S-57 and S-101 data portrayal. A draft ENC Encoding Bulletin highlighting encoding requirements in S-57 ENCs for optimum display and performance in S-100 ECDIS was also developed during the meeting.

The requirement for an information/guidance document(s) for Mariners, Data Producers, Training Schools and other S-57/S-101 Stakeholders, particularly covering the Dual-Fuel stage of S-100 ECDIS implementation, was discussed. It was agreed that such guidance, similar to that included in IHO Publications S-65 and S-66 for S-57/S-52 ECDIS, is required.

S-101PT16

The meeting reviewed progress on the development of the next version of S-101, with proposed changes being submitted primarily as issues through the various S-101-specific GitHub repositories by Data Producers, production and validation software manufacturers, and OEMs based on their S-101 Edition 2.0.0 production and implementation experiences. Draft changes to the S-101 documentation submitted to the meeting based on these issues were approved. Several Papers for enhancing S-101 were also considered by the meeting.

A report was submitted by the IHO Secretariat outlining a standardized approach to the management of S-100 and associated Product Specifications documentation through the GitHub and utilizing the Metanorma application. It was reported that all the published operational Editions of the S-100-based Product Specifications had been loaded into Metanorma as a starting point.

At the closure of the S-101PT16 portion of the meeting, a combined discussion was held in regard to the possible integration of the S-101PT into the ENCWG at the end of the next combined meeting.

Photos



ENCWG10 Attendees



S-101PT16 Attendees

Upcoming meetings:

The meeting agreed on the schedule for upcoming ENCWG and S-101PT meetings:

- S-101PT17 will be held as a remote meeting on 10-11 February 2026.
- ENCWG11/S-101PT18 will be held in October 2026 in Quebec, Canada (dates TBC).