



7th Meeting of the IHO S-100 WG

IMO UPDATES

Agenda Item 06.1



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IMO APPROVAL OF S-100 IN ECDIS PERFORMANCE STANDARDS

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- The IHO organized drafting group consisted of relevant parts of the HSSC Chair group, CIRM, IEC, INTERTANKO and a few other relevant stakeholders.
- The drafting group was chaired by the IHO Technical Director and a draft redline version was submitted by IHO, cosponsored by CIRM and Intertanko, to the IMO NCSR9 meeting, held in June 2022.
- With the exception of the withdrawal of functionalities for route exchange all other proposed changes were endorsed by NCSR9. Approved by IMO MSC106 on 11 November 2022.
- S-100 ECDIS will be legal to use after **1 January 2026** and from **1 January 2029** new systems must comply with the new IMO Resolution on ECDIS Performance Standards (MSC.530(106))





IHO **CHANGES TO MSC 232(82)**

Regarding the scope of the amendments There are five “categories” of changes:

- Technical changes directly related to the introduction of support for S-100 in ECDIS
 - Housekeeping editorial changes - including those consequential to changes in other standards (e.g. Bridge Alert Management)
 - Minor functional changes aimed at improving safety, based on user experience of MSC.232(82) ECDIS, including those related to display of existing information
 - More substantial functional changes aimed at improving safety, based on user experience of MSC.232(82) ECDIS
 - Changes, to allow for the introduction of mandatory support for route exchange with secure communication
- Noting the instruction of MSC105 and discussion in plenary the co-sponsors of proposed the withdrawal of all text in the submission that deals with route exchange. The text can be reconsidered when there is more time to discuss the inclusion of route exchange in the ECDIS performance standards at NCSR10. It further proposed a two-phase approach on the in-force dates of the amended MSC232(82) with legal voluntary use from 01 Jan 2026 and in force from 01 Jan 2029



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- The functionality of multiple navigational data layers was included in the Resolution by means of the introduction of the term Electronic Navigational Data Services (ENDS).
- ENDS means a special-purpose database compiled from nautical chart and nautical publication data, standardized as to content, structure and format, issued for use with ECDIS by or on the authority of a Government, authorized Hydrographic Office or other relevant government institution, and conforming to IHO standards; and, is designed to meet the requirement of marine navigation and the nautical charts and nautical publications carriage requirements in SOLAS regulations V/19 and V/27. The navigational base layer of ENDS is the S-101 Electronic Navigational Chart (ENC).



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- System database means a database, in the manufacturer's internal ECDIS format, resulting from the lossless transformation of the ENDS contents and its updates. It is this database that is accessed by ECDIS for the display generation and other navigational functions, and is equivalent to up-to-date ENDS.



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CONCLUSION

- Inclusion of S-100 in the IMO regulatory framework is a major success for IHO.
- IHO has now commitments towards IMO and other stakeholders to achieve operational status on the prioritized S-100 product specifications.
- Member States to achieve substantial coverage of S-101 and related products by 2026.
- Active contribution in S-100 related WGs and PTs must be increased.