



16th Meeting of the Hydrographic Services and Standards Committee

CIRM activities affecting HSSC

Agenda Item HSSC16-07.5A

HSSC-16, Tokyo, Japan, 27 – 31 May 2024



IHO

ABOUT CIRM

International
Hydrographic
Organization

- International association of marine electronics companies
- We are an NGO in Consultative Status to IMO
- 112 members, including:
 - Equipment manufacturers
 - Service providers
 - ECDIS companies – manufacturers, kernel makers, data providers (UKHO, NOAA)



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RECENT AND UPCOMING CIRM MEETINGS

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- CIRM Annual Conference 2023 (Izmir, Türkiye)



- CIRM Annual Technical Workshop 2024 (April, Hamburg)
- CIRM Annual Conference 2024 (October, Busan)



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TRANSITION TO S-100 BASED ECDIS

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- CIRM Position Paper on *Transition to S-100 based ECDIS*
- Updated January 2024 by ECDIS Working Group
- CIRM's positions:
 - 1) The ability for manufacturers to bring S-100 capable ECDIS to market in accordance with the phased installation timeline specified in MSC.530(106) is wholly dependent on the **availability of the related standards and product specifications, along with their associated test data**. This includes the IHO critical framework standards, the IHO product specifications included under Step 1 and IEC 61174 edition 5.0.



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TRANSITION TO S-100 BASED ECDIS

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- CIRM's positions:
 - 2) **Availability of live S-100 data** at a price the market is willing to pay will be essential to ensuring that the full benefits of an S-100 based ECDIS are realised - meaning both availability across the globe and across different product specifications



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TRANSITION TO S-100 BASED ECDIS

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- CIRM's positions:
 - 3) **IHO should decide upon an end date for the provision of S-57 ENCs**, following which only S-101 ENCs would be provided by Hydrographic Offices, and subsequently inform IMO of this decision. Such an end date will limit the cost burden on manufacturers and shipowners incurred by support for “dual-fuel mode” and incentivise the wider global implementation of S-100. CIRM's view is that the precise end date needs to be discussed thoroughly between all stakeholders before being agreed upon



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TRANSITION TO S-100 BASED ECDIS

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- CIRM's positions:
 - 4) **Successful completion of the S-100 test bed programs** is a prerequisite for the avoidance of anomalies when S-100 data products start to be used for navigation on an ECDIS



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RAISING IMO'S AWARENESS OF S-100

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- IHO and CIRM gave a joint presentation to MSC 108 on development and implementation of S-100 based ECDIS
- Purpose: to raise IMO Member States' awareness of next generation ECDIS and their role in provision of S-100 data
- At the same meeting, CIRM facilitated installation of an **S-100 demonstrator** in the IMO delegate's lounge (provided by NAVTOR & Hatteland)



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MSC 108/12/4, NCSR 11/18/7

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- CIRM thanks IHO for submitting these progress reports to IMO meetings
- We note well the implementation timelines provided for critical S-100 product specifications. **MSC 108/12/4** states:

“Some parts of the critical framework, S-98 and S-164 have been agreed to 2025 approval process to be published by December 2025”
- CIRM members observe that these publication dates do not support placing S-100 ECDIS on the market on 1 Jan 2026 (the initial in-force date of MSC.530(106))



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MSC 108/12/4, NCSR 11/18/7

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- In **MSC 108/12/4**, IHO invites MSC to “*consider the impact of resolution MSC.530(106) on the training needs of seafarers*”
- CIRM supports the need for MSC to consider the training implications of the introduction of S-100 capable ECDIS



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S-164 TEST DATA SETS

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- Development of a robust test dataset is essential for successful implementation of S-100 ECDIS
- It is therefore important for progress to be made on S-164
- CIRM continues to encourage our Members to participate in this process, and some are doing so



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LINKING PRODUCT SPECIFICATIONS TO NAUTICAL PUBLICATIONS

International Hydrographic Organization

- CIRM notes that the following action is in progress:

S-100 Products versus NPs	HSSC15/93	HSSC to consider supporting the work of IMO by developing a mapping table linking individual S-100 product specifications to their associated nautical publications, with a timeline on when those product specifications will be available for implementation; this information will also assist manufacturers.	NIPWG (VTC 02/2023, September 2023) HSSC-16	In progress (NIPWG-10)
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- As CIRM proposed this action to HSSC 15, we remain highly supportive of it. This will greatly assist manufacturers



IHO

S-64 NEW EDITION 4.0.0 (1 OF 2)

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- CIRM thanks IHO for the recent liaison on the introduction strategy of S-64 Edition 4.0.0
- HSSC16-05.2A states:

It is proposed that a S-64 New Edition 4.0.0 for the performance of S-57 data in “dual fuel” mode be created for the type approval of S-100 ECDIS. The ENCWG would create a series of additional checks for the display of indication highlights taking into account ENC accuracy.



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S-64 NEW EDITION 4.0.0 (2 OF 2)

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- If the intention is that S-64 Ed 4.0.0 would apply only to ECDIS type approved to MSC.530(106), and any ECDIS type approved to MSC.232(82) would continue to use S-64 Ed 3.0, then **CIRM supports this approach**



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ACTIONS REQUESTED FROM HSSC

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1. Note CIRM's view that the ability for manufacturers to bring S-100 capable ECDIS to market in accordance with the phased installation timeline specified in MSC.530(106) is wholly dependent on the availability of the related standards and product specifications, along with associated test data
2. Note CIRM's view that availability of live S-100 data at a price the market is willing to pay will be essential to ensuring that the full benefits of an S-100 based ECDIS are realised



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ACTIONS REQUESTED FROM HSSC

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3. Note CIRM's view that IHO should, at an appropriate point, decide upon an end date for the provision of S-57 ENC's, following which only S-101 ENC's would be provided by Hydrographic Offices, and subsequently inform IMO of this decision
4. Note CIRM's view that successful completion of the S-100 test bed programs is a prerequisite for the avoidance of anomalies when S-100 data products start to be used for navigation on an ECDIS



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ACTIONS REQUESTED FROM HSSC

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5. Take into account that a December 2025 publication date for S-64 and S-98 does not support placing S-100 ECDIS on the market on 1 Jan 2026
6. Note that CIRM supports the need for MSC to consider the training implications of the introduction of S-100 capable ECDIS
7. Note that CIRM supports development of S-64 Ed 4.0.0, on the basis that it would apply only to ECDIS type approved to MSC.530(106)