



16th Meeting of the Hydrographic Services and Standards Committee

IEC activities affecting HSSC

Agenda Item 7.4

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



1. IMO process around ECDIS
2. Introduction of S-100 into **IEC 61174 ECDIS** standard
3. Next political meeting, the **Plenary of IEC TC80**
4. Topical news



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IMO PROCESS AROUND ECDIS

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1. **IMO MSC-106**, Nov 2022 agreed revised ECDIS Performance Standards **MSC.530(106)**. This include both S-57 ENC charts and S-100 based standards
2. IEC has noted that Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and EC have submitted a **proposal paper** to **IMO NCSR-10**, May 2023 to amend the recently published MSC.530(106)
3. The proposal was to **amend the IMO ECDIS** Performance Standard **MSC.530(106)** to **include implementation of the IEC 63173-1** as a standardized format to exchange route plans and to **include implementation of the IEC 63173-2** SECOM as a standardized digital exchange method between ship and shore-based maritime service providers
4. **IMO NCSR-10**, May 2023 included both S-421/IEC 63173-1 and SECOM/IEC 63173-2 into to the draft revised IMO MSC.530(106)
 - IMO approval was by **IMO MSC-108** on 21st May 2024
 - In-force dates are same as for S-100/S-57 Dual-fuel ECDIS, Legal from 1st Jan 2024 and mandatory for new installations from 1st Jan 2029



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INTRODUCTION OF S-100 INTO IEC 61174 ECDIS STANDARD – (1)

1. Role of the IEC TC80 in the IMO rule ecosystem is to provide technical testing standard for compliance with IMO Performance Standards related to navigation and radio communication
 - **IMO** sets rules based on functionality available to operator
 - The related **IEC** standard describes the minimum technical facilities to implement the specified functionality
 - For same parts, IEC describes the technical solution
 - For example, IMO required that the backup arrangement automatically continue route monitoring in case that primary ECDIS is no more available. IEC specified the format of the Route Plan and technical method to transfer it between ECDIS and its backup arrangement
 - For some other parts, IEC just references to rules set by intergovernmental organizations
 - For example, testing of IHO S-57 ENC charts relies 100% on the content of the IHO S-64 Test data sets and instructions for ECDIS
 - Resulting schedule dependency and Critical path: In addition to product specifications (S-101, S-102, etc.), IHO S-100 model include interoperability & functionality of ECDIS specifications (S-98) and testing specifications (S-164) both of which should be published as final versions before the assumed completion of the Committee Draft for Vote (CDV)



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INTRODUCTION OF S-100 INTO IEC 61174 ECDIS STANDARD – (2)

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2. IEC plan for drafting of the **next edition 5th of IEC 61174 ECDIS**

- Group for this work is **IEC TC80/MT7**, Convenor is Hannu Peiponen (Finland)
- Drafting started after the MSC-106, Nov 2022 approval of revised ECDIS Performance Standards **IMO MCS.530(106)**
- First draft, Jan 2023 was by the convenor of MT7 as input paper for the first meeting of the MT7, Mar 2023
- **First CD** for review by National Committees of IEC TC80 had review period **12th Jan – 5th Apr 2024**
- **Second CD** is planned for review by National Committees of IEC TC80 around **Aug – Nov 2024**
- Meeting schedule planned for IEC TC80/MT7
 - 2nd – 4th Jul 2024, BSI, London, UK
 - 10th – 12th Dec 2024, Chartworld/SevenCs, Hamburg, Germany
 - Year 2025, TBD
- IHO is a liaison member of IEC TC80
 - IHO can participate and send their representative to IEC TC80/MT7 meetings



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INTRODUCTION OF S-100 INTO IEC 61174 ECDIS STANDARD – (3)

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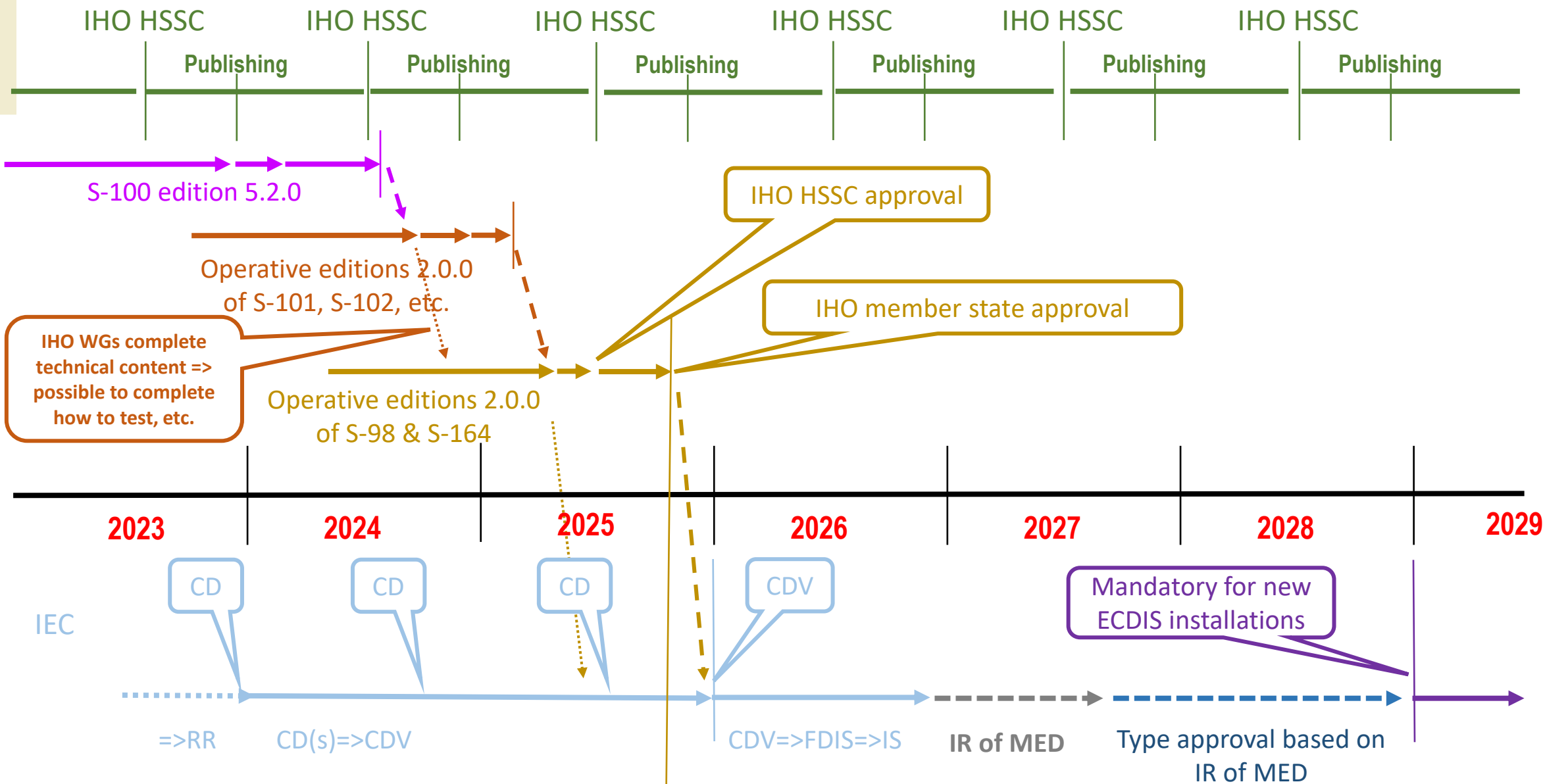
3. IEC TC80/MT7 meetings have maintained a **timeline**
 - IEC has strict restrictions for the time from official start (Review Report, RR) to publishing. **Max 2 years** from official start (RR) to Committee Draft for Voting (CDV).
 - Further all the references for external standards or documents in the CDV shall be for final published standard or document – not for a draft, preliminary, for testing purposes only, etc.
 - The official start in IEC by an RR was 22nd Dec 2023 and the deadline for the CDV is 30th Jan 2026
 - Based on the IHO report to IMO, MSC-108/12/4 (made available by IMO in Mar 2024) it is still today possible to meet the deadline of the CDV. Paragraph 15 of MSC-108/12/4:
S-100 Edition 5.2.0 to be published in May 2024 and for official operational editions of Phase 1 product specifications to be published by December 2024. This includes the operational edition of the new ENC format S-101. Some parts of the critical framework, S-98 and S-164 have been agreed to 2025 approval process to be published by December 2025
 - IEC has noted that based on above there is only one month available for any delay for the IHO plan before IEC is not able to meet the deadline for the CDV in IEC.
 - Next slide provides the timeline as agreed at IEC TC80/MT7 meeting 23rd – 25th Apr 2024



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IEC 61174 ED5, TIMELINE (CREATED IN APR 2024)

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IEC TC80 PLENARY

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In IEC, plenary is the highest political decision making body in a Technical Committee (TC)

- IEC TC80 practice is to have plenary in every 2 years
- Previous plenary was
19th – 20th Sep 2023, London
- Next plenary is planned
Autumn 2025, date and location TBD



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IEC TC80 CHAIR

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In IEC holding of the chair position of a technical committee is limited. Initial election is for 6 years, and re-election is possible once for 3 years.

- Current chair, **Hannu Peiponen**, Finland
Served initial period from 1st Sep 2015 to 31st Aug 2021
Is currently serving re-election period **until 31st Aug 2024**
- Next chair, **Antti Kukkonen**, Finland
Has recently been elected for initial period from **1st Sep 2024** to 31st Aug 2030

NOTE

Holding a workgroup or maintenance team chair position (or a convenor position which is the term used by IEC) within a technical committee is not connected to the chair position of the technical committee itself. Therefore, Hannu Peiponen continue as usual his convenor positions:

- IEC TC80/WG6, Interfaces
- IEC TC80/MT5, Presentation
- IEC TC80/MT7, ECDIS



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ACTION REQUESTED OF HSSC

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The HSSC is invited to:

- Note the information provided