S-101PT10

Delivery of S-101 2.0.0

Agenda Item 10

S101PT10, Brest, France, 13 – 15 June 2023

At the end of April 2023 the S-101 Project Team delivered S-101 1.1.0, this was a major milestone in the delivery of S-101 2.0.0

HSSC 15, reviewed progress and received clear direction from IEC on their envisaged timeframes to deliver a new ECDIS performance standard

The core package of "Phase 1" specifications includes;

Core Standards S-98, S-100, S-164

Product Specifications S-101, S-102, S-104, S-111, S-128, S-129

1. <u>Role of the IEC TC80</u> in the IMO rule ecosystem is to <u>provide technical testing standard for</u> compliance with IMO Performance Standards related to navigation and radio communication

   - **IMO** sets rules based on <u>functionality available to operator</u>

   - The related **IEC** standard describes the <u>minimum technical facilities to implement the specified functionality</u>

   - For same parts, IEC <u>describes the technical solution</u>
     - 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 <u>references to rules set by intergovernmental organizations</u>
     - For example, testing of IHO S-57 ENC charts relies 100% on the content of the <u>IHO S-64 Test data sets and instructions for ECDIS</u>
     - **Critical path**: S-100 related IHO standards including <u>both</u> product specifications (S-100, S-101, etc.) and <u>especially the testing specifications (</u>**S-164**) should be <u>published as final versions</u> before the assumed completion of the Committee Draft for Vote (CDV)

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2. <u>IEC plan</u> 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 the <u>after MSC-106, Nov 2022 </u>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

- Meeting schedule planned for IEC TC80/MT7
  - 10th – 13th July 2023, BSH, Hamburg, Germany
  - 1st – 3rd Nov 2023, BSI, London, UK
  - 5th – 7th Dec 2023, BSH, Hamburg, Germany
  - Year 2024, TBD
- IHO is a liaison member of IEC TC80
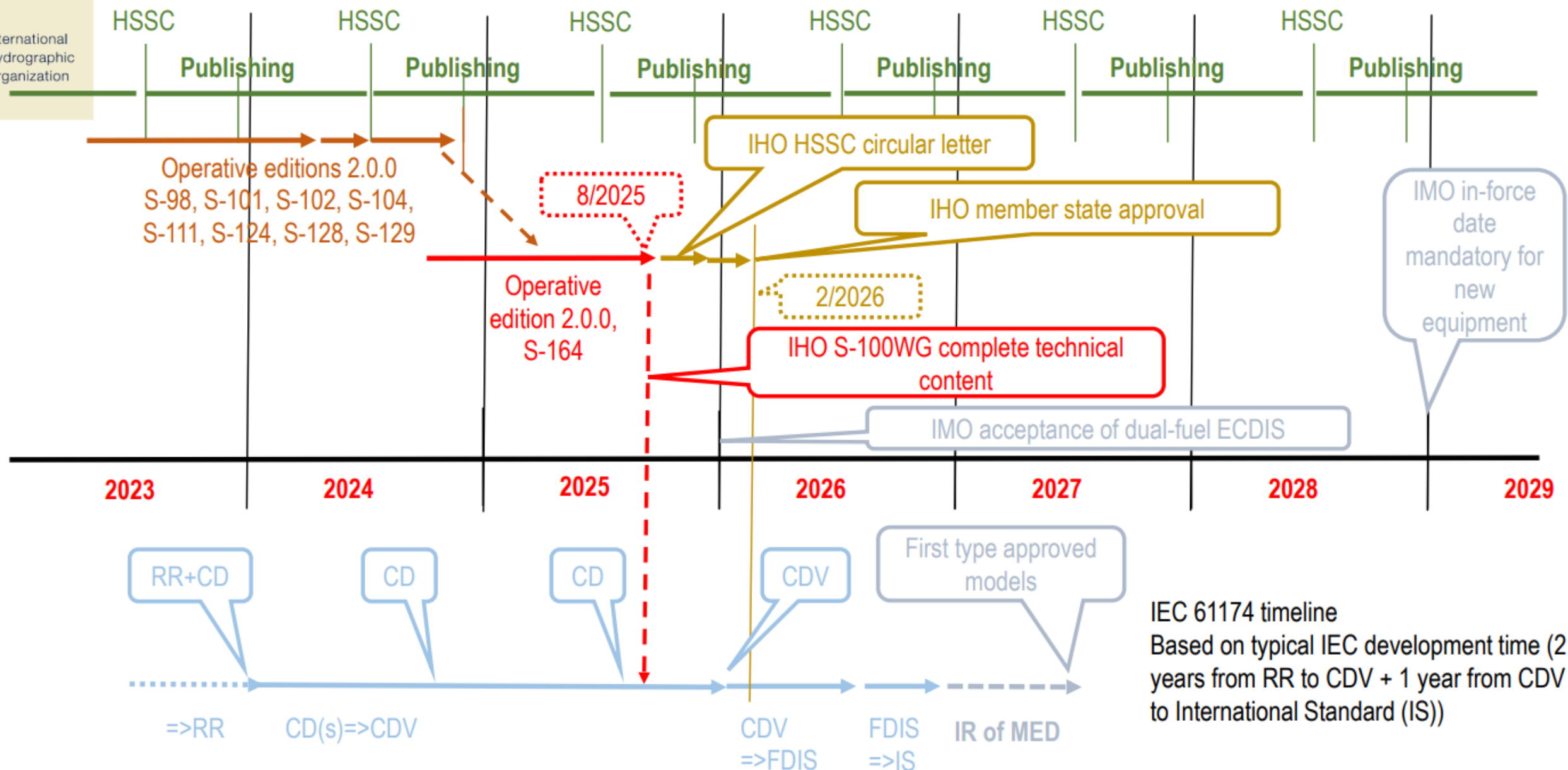 - IHO can participate and send their representative to IEC TC80/MT7 meetings

3. IEC TC80/MT7 meeting Mar 2023 drafted two extreme cases for the **timeline**

   - IEC has strict restrictions for the time from official start (Review Report, RR) to publishing. **Max 2 years** from official start to Committee Draft for Voting (CDV).

   - It was agreed to postpone official start of RR until **Dec 2023/Jan 2024** to allow maximum flexibility compared to readiness of IHO in their publishing of the so-called "operational editions" (ed 2.0.0)

   - Next two slides provide max and min timeline

   - **NOTE:** Obviously the planned Dec 2023 meeting of IEC TC80/MT7 will review the progress by IHO in order to see if it is feasible to request official start (RR) or if the official start should be postponed to allow IHO to complete S-100 related standards later than assumed in the max timeline by IEC TC80/MT7

IEC 61174 ED5, MAX TIMELINE

IEC 61174 ED5, MIN TIMELINE

IEC 61174 timeline
Shortest possible (1 years from RR to CDV + 1 year from CDV to International Standard (IS))
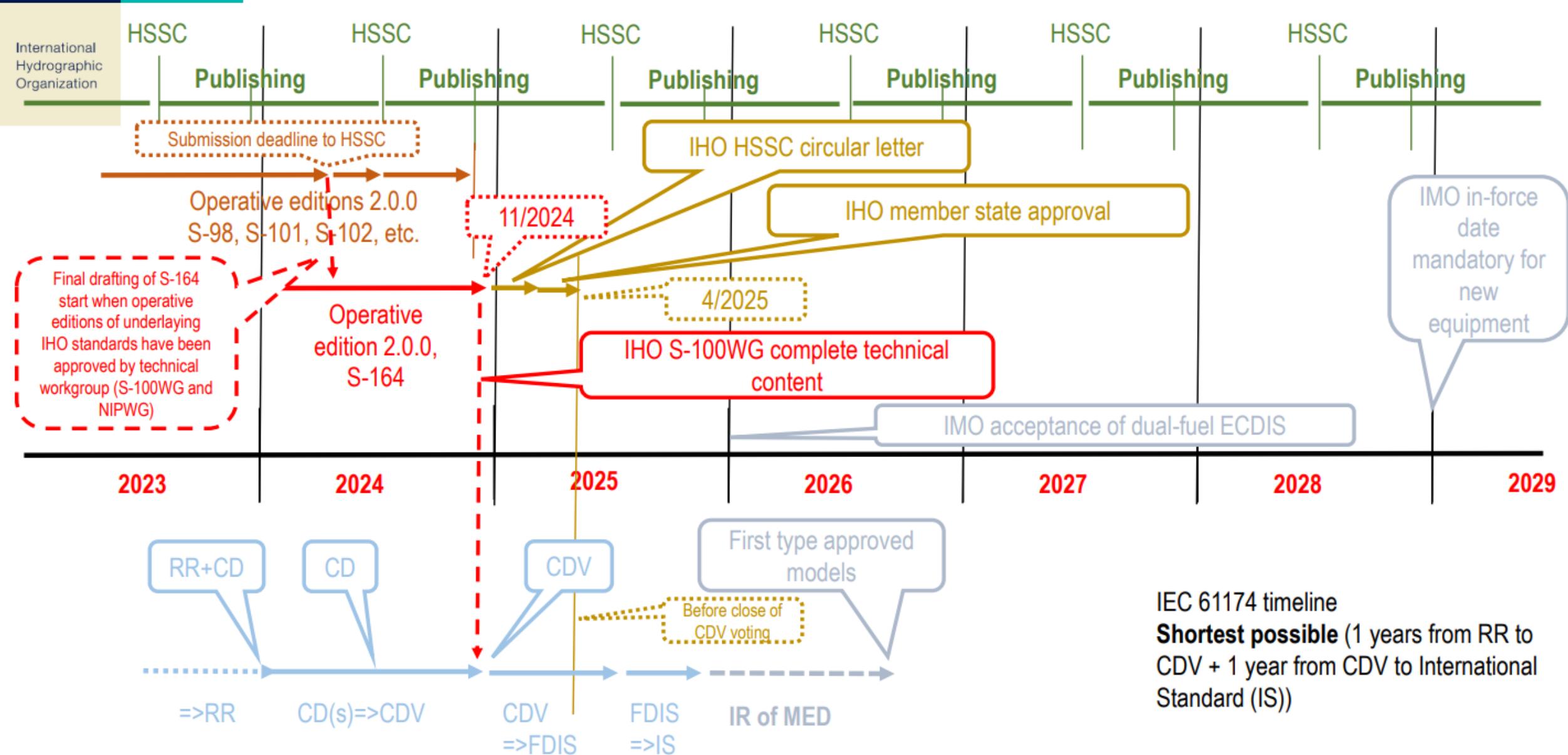
STEP 1 – DELIVER S-101 1.2.0

1. Update S-101 in line with S-100 5.1.0 (Decision Required)

2. Update Data Quality to align with new DQWG template

3. Apply changes agreed by S-101PT

4. Prepare S-164 and S-58 S-101 datasets (packaged as signed Exchange Sets)

5. Propose that final comments/changes are resolved at PT11 meeting Sept 2023

6. Aim to ensure that changes do not require updated production software just change to configuration files (reduces time delay for testing) (links to above decision)

1. Process and action feedback from 1.1.0 and 1.2.0

2. Resolve all outstanding issues

3. Refine and complete S-164 and S-58 Test Datasets

4. Testing of S-98 data product integration

5. Meet early in 2024 to begin finalising 2.0.0

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1.   S-101 PT11 Lombok, Indonesia 25-29 Sept 2023
S-101 1.2.0 Finalised for Publication November 2023

2. S-101 PT12 TBD early 2024 (virtual meeting?)
Review feedback and prepare changes for 2.0.0

3. S-101 PT13 TBD June 2024 (in person meeting?)
Finalise edition 2.0.0

4. HSSC Endorsement of 2.0.0 commences Sept 2023

5. IHO Member State Approval of 2.0.0 by Dec 2024

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1. Further changes to S-100 (5.2.0?) and changes to tooling (delay)
   • ACTION Close monitoring of progress via ISO cell

2. Dependencies on other specifications
   • ACTION Close monitoring of progress via ISO cell

3. Lack of adequate test datasets
   • ACTION assign a dedicated test dataset coordinator – volunteers?

4. Lack of testing and end user feedback (including of data product integration)
   • ACTION Close monitoring of testbeds via ISO cell

5. Lack of Resources
   • ACTION Close monitoring of resources via ISO cell

- Is this a viable plan?

- How do we capture and articulate the risks to delivery?

- How do we engage adequate resources given the challenging timeframes?

- Discuss…