



6TH MEETING OF THE S-100 WORKING GROUP (S-100WG) Video-teleconference (VTC), 10–14 January

Contribution to the IHO Work Programme 2022	
Task 2.1.2.1	Organize, prepare and report meetings of S-100WG

The 6th Meeting of the S-100 Working Group was planned to be held as a Hybrid meeting in Monaco, however it was decided to hold the meeting from 10 to 14 January 2022 by Video-teleconference (VTC) due to the ongoing situation of the COVID 19 pandemic.

The meeting was chaired by Ms Julia Powell (USA), supported by Ms Elizabeth Hahessy (Denmark, Vice-Chair). 110 delegates from 24 Member States (Australia, Belgium, Brazil, Canada, China, Denmark, Egypt, Finland, France, Germany, Greece, India, Italy, Japan, Netherlands, Norway, Portugal, Republic of Korea, Romania, Singapore, Spain, Sweden, Turkey, United Kingdom and USA), 39 Expert Contributors. The IHO Secretariat was represented by Director Abri Kampfer, Technical Standards Support Officer Jeff Wootton and Assistant Director Yong Baek.

The Chair opened the meeting informing participants that due to the VTC format, the discussion items focused on proposals for S-100 Edition 5.0.0; S-98 Edition 1.0.0; S-102 Edition 2.1.0; and the Dual Fuel Governance Document, with other remaining items to be considered during the meeting only if time allowed.



Some participants at S-100WG-6



Proposals to S-100 Edition 5.0.0

One of the most important work items for the S-100WG6 meeting was to review new proposals for S-100 Edition 5.0.0, which were discussed over the first two days. The meeting approved Part 16 – *Interoperability*, Part 16A – *Harmonized Portrayal of S-100 Products* and Part 17 – *Discovery Metadata for Information Exchange Catalogue* for S-100 Ed. 5.0.0 as new parts. In addition, proposals to revise S-100 Parts for Vertical Datums, Metadata Temporal Attributes, Supporting Resources, Distribution of S-100 Based Products (Part 4), GML (Part 10), Units of Measurement Information and Drawing Process (Part 9) were accepted. The details of these proposals are available on the S-100WG6 meeting page.

The meeting decided to finalize S-100 Ed. 5.0.0 with the above accepted proposals with any remaining issues to be resolved by correspondence; and if needed, a special technical editing session will be held at the end of February 2022 in order to prepare S-100 Ed. 5.0.0 for submission to the HSSC14 meeting in May 2022.

In addition, amendments to S-100 Part 2 – *Management of Geospatial Information Registers*; and S-99 Edition 2.0.0 – *Operational Procedures for the Organization and Management of the IHO Geospatial Information Registry* were approved, taking into consideration the currently implemented operational procedures of the IHO Geospatial Information Registry.

S-98 Interoperability Specification

The S-100WG Chair presented a draft Edition 1.0.0 of S-98 – *Data Product Interoperability In S-100 Navigation Systems*, consisting of four different interoperability levels and three Annexes (Annex A - *Operational Contexts, Scenarios and Use Cases*; Annex B - *Validation Checks*; and Annex C - *Harmonised User Experience for ECDIS and INS*), highlighting Annex C that has been introduced since the last S-100WG meeting to support the extraneous concepts of IHO S-52 in the S-100 ecosystem for navigational equipment. The meeting approved S-98 Edition 1.0.0 for submission to HSSC14 for endorsement and plans to demonstrate S-98 functionality to the HSSC and IHO Council meetings this year.

S-102 Edition 2.1.0

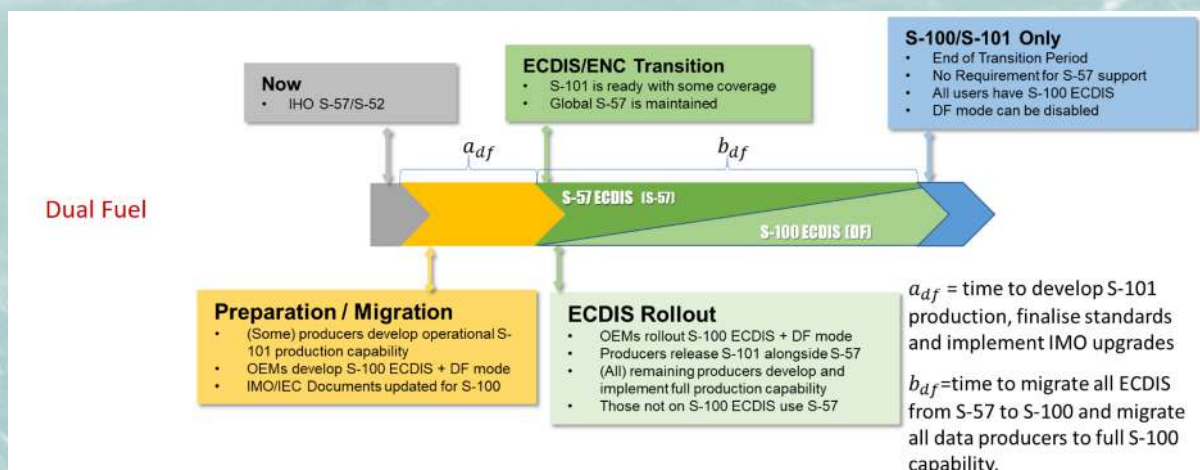
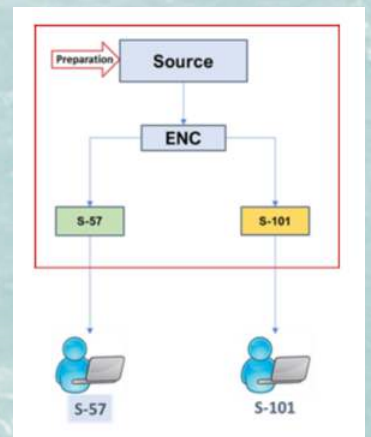
The S-102 Project Team Chair provided the background for Edition 2.1.0 of the S-102 Product Specification – *Bathymetric Surface*, which improves readability and focuses on navigational usage, noting however that it does not preclude non-navigational usage. Key updates of S-102 Edition 2.1.0 are the removal of tracking list, physical transfer as a delivery method and the resolution of S-102 metadata. This revision of S-102 will be submitted to HSSC14 for endorsement.



Dual Fuel Governance Document for S-57 and S-101 ENC

The meeting reviewed the progress of the development of the Dual Fuel Governance Document that has the following aims:

- Recognise and define each of the stakeholders and users of S-100 ECDIS. Capture all the relevant details at a high level and describe the “changes” required across the entire ecosystem.
- Describe the S-100 ECDIS and the Dual Fuel “concept”.
- Detail the IHO’s transitional period.
- Fill in the detail between the IMO processes, the defining standards, the producing entities and the supporting stakeholders.
- Define how primary supporting bodies can support distribution and any likely changes.
- Define summary information suitable for communication with IHO Member States, stakeholders and the community, defining S-100 ECDIS focused on the IMO Performance Standard.



The draft Governance Document will undergo a final review period by the S-100WG for completion by mid of February 2022 for submission to HSSC14 for endorsement.

S-100WG re-elected Julia Powell (USA) as Chair; and Elizabeth Hahessy (Denmark) and Iji Kim (Rep. of Korea) as Co-Vice Chairs. It was agreed to hold the next S-100WG meeting as face-to-face in Monaco during the period October-November 2022.