



Hydrographic Services and Standards Committee

Report of the Digital Information Portrayal Working Group
(DIPWG)

HSSC-5 Shanghai

5-8 November 2013

Principal activities and achievements:

New Draft S-52 Presentation Library (1 of 2)

- HSSC-3 directed DIPWP to develop new version of S-52 PresLib (3.5)
- Purpose was to reduce ECDIS manufactures errors or “ECDIS anomalies”
- Extensive revision of the PresLib has been drafted
- Extent of changes being made call for a full version number change, so the new Presentation Library will be Edition 4.0, not 3.5



Principal activities and achievements:

New Draft S-52 Presentation Library (2 of 2)

- Minor version change of main part of S-52
 - From Edition 6.0 to 6.1
 - Changes to S-52 Annexes B & C
 - Removed erroneous and obsolete colour calibration instructions based on CRT technology
- HSSC-5 paper 05.3B, S-52, “Presentation Library Edition 4.0” provides more details about the changes to S-52 and the Presentation Library



Principal activities and achievements:

S-100 Portrayal Model (1 of 2)

- After the use of XSLT language was agreed upon, significant progress was made
- 3 working sessions of OEMs and other subject matter experts:
 - 2 days - Oct 2012 - London after the 3rd IHO ECDIS Anomalies Workshop held at IMO headquarters
 - 1 day - Jan 2013 - Tokyo prior to TSMAD-25
 - 3 days - Mar 2013 – Frankfurt
 - IHO funds paid for participants' transportation, many of whom would not otherwise have been able to attend



Principal activities and achievements:

S-100 Portrayal Model (2 of 2)

- Model is essentially complete
 - Some details will be validated and refined as part of the IHO Portrayal Catalogue Builder contract
- Narrative portion of portrayal (Section 9) of S-100 and S-101 Documents – Spring 2014
 - Portions of S-52 that were initially identified for editing and inclusion in the S-100 or S-101 may have to be revisited due to many changes made to PresLib ed. 4.0



Principal activities and achievements:

S-100 Portrayal Catalogue Builder Contract

- 6-month contract awarded to Caris in mid July 2013
- Will deliver:
 - Web-based S-100 Portrayal Catalogue building tool
 - SVG formatted symbol graphics of ENC symbols
 - Review of Conditional Symbology Procedures and recommendations for improving their algorithms
 - A fully compliant S-101 Portrayal Catalogue
 - Requires finalization of an S-101 Feature Catalogue (TSMAD)
 - Symbolization rules for new or modified S-101 ENC features and attributes (NOAA & US Navy SPAWAR Lab)



Principal activities and achievements:

1st Combined Paper Chart & ECDIS Chart 1

- US Chart No. 1: 1st chart 1 to show INT1 symbols side-by-side with corresponding ECDIS (S-52) symbols
- Idea proposed at least as far back as CSMWG 2008
- DIPWG and CSPCWG INT1 Sub-Working Group members provided helpful critiques of early drafts
- Free download of PDF from NOAA website
- US will provide InDesign files and graphics to others wishing to add ECDIS symbology to their own chart 1
- “ECDIS Chart 1 Sub-Working Group” could be useful



Principal activities and achievements: *Chart Presentation Bulletins*

- DIPWG released 1 chart presentation bulletin
- “Portrayal of virtual AIS aids to navigation”
 - S-52-CPB-No 10 is identical to the encoding bulletin (EB54) released simultaneously by TSMAD, “UOC Clause 12.14.1 AIS equipment aids to navigation”
- Provides guidance on the correct encoding and portrayal of virtual AIS Aids to Navigation
 - Uses existing S-52 symbol “parts” to construct new symbols for features encoded using the NEWOBJ object



Principal activities and achievements:

Technical Assistance for Portrayal

- The DIPWG Chair and TSMAD Vice-Chair both provided guidance and moral support to NOAA colleague and the founding Chair of the newly formed Surface Currents Working Group
- No other requests for assistance regarding the development of other S-100 based products were received by DIPWG



Problems or outstanding issues

- ✦ Approval schedule for PresLib 4.0
 - Must be coordinated with S-64 and IEC 61174 releases
- ✦ Completion of narrative part of S-100/S-101 § 9
 - Should not delay test bed activities



Future work programme

- Recommend deleting two DIPWG tasks:
- A.4, “Issue Maintenance Document No. 9 of S-52”
 - No need for this Maintenance Document after new PresLib 4.0 is released
- A.5, “Develop new Presentation Library Version 3.5 and coordinate with TSMAD for appropriate changes to S-64”
 - Presentation Library Version 4.0 has been completed.



Action requested of HSSC

- ✦ a. **endorse** the DIPWG report,
- ✦ b. **approve** the DIPWG workplan
- ✦ c. **endorse** establishing an ECDIS Chart 1 consultative body
 - As part of CSPCWG INT1 Sub-Working Group or within DIPWG

