

Hydrographic Services and Standards Committee

New S-52 Presentation Library, Edition 4.0 & S-52, Edition 6.1

HSSC-5 Shanghai

5-8 November 2013

Background

- + Nov 2011 HSSC-3 (Monaco)
 - UKHO paper HSSC3-05.3B "Proposed Revision of S-52 Presentation Library"
- Revision was to address known "ECDIS anomalies" and implementation irregularities, and to improve the overall clarity of the document
 HSSC directed DIPWG to develop new edition (3.5) S-52 Presentation Library



Schedule reported at HSSC-4

- Sep 2012 DIPWG chair reported the intent to have a draft PresLib Edition 3.5:
 - Ready for discussion at next TSMAD-25 (Jan 2013) and
 - Reviewed at joint TSMAD-26/DIPWG-5 (Jun 2013) and
 - Endorsed at HSSC-5 (Nov 2013)
- + Technically, this schedule has been met, but ...
- + ... presentation will provide details affecting
 - the development schedule
 - scope of changes that new PresLib will implement

Expanded Scope of Revision

- Extensive revision of PresLib presented at TSMAD-25 (Jan 2013)
- Concern expressed that extent of changes exceeded the original intent to only correct inconsistencies and clarify ambiguities
- Concern that DIPWG resources, primarily OEMs, would be stretched to an appropriate level of support to develop the new PresLib, complete the S-100 model and other TSMAD activities

Finalization of PresLib4.0

- + 2 iterations of review by correspondence prior to DIPWG-5 (June 2013) but more time was needed
 + DIPWG established "PresLib 4.0 finalization Sub-WG" to:
 - Review and finalize the draft edition without making any further content changes
 - Report to DIPWG on the disposition of the comments received from the review of the original draft PresLib
 - Complete work in time for approval at HSSC-5

PresLib 4.0 Finalization Sub-WG Meetings

Duration	Date	Location	Participants
3 days	Jun 2013	Washington	12
5 days	Jul 2013	Hamburg	9
4 days	Aug 2013	Taunton	7



Broadening Extent of Changes

- Consensus grew within sub-working group to broaden scope of changes beyond DIPWG's direction to proceed, "without making any further content changes"
- Additional areas were identified where revision was desired
- Decision to make some optional functions mandatory



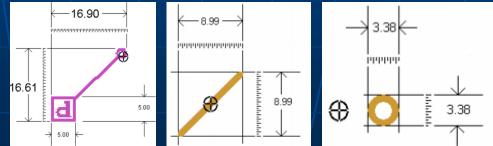
Nature of Changes to PresLib (1 of 4)

- + Language was modernized and simplified
- Old diagrams and examples were updated
- Redundancies and repeated copies of several tables were eliminated
- Multiple options for performing the same task were limited
- Elements that have never been implemented, such as raster symbol definitions, were deleted



Nature of Changes to PresLib (2 of 4)

- Symbolization look-up and color tables were put into separate files
- Detailed examples were added to provide developers with clear guidance for implementing complex parts of ECDIS portrayal
- New symbols were added assist mariners in identifying date dependent features and automatic updates

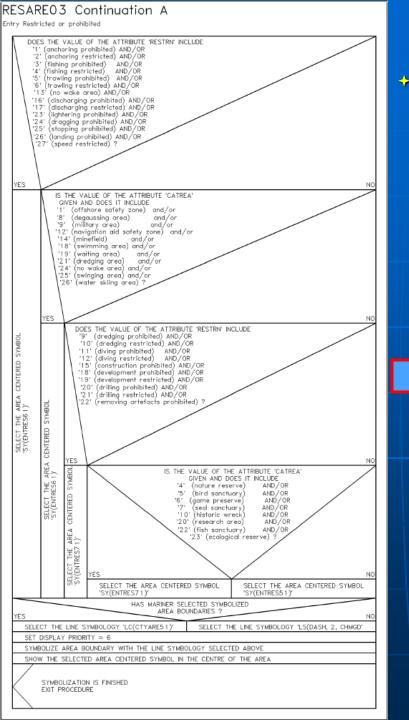




Nature of Changes to PresLib (3 of 4)

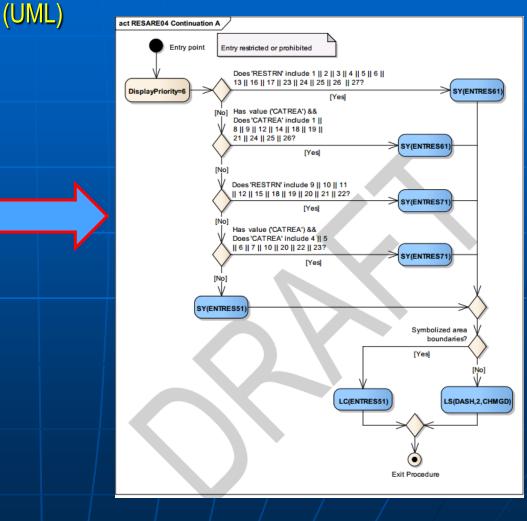
- Changes made to reflect the requirements in the revised IMO Performance Standard for ECDIS
 - Added new sections for detection and notification of navigational hazards, detection of areas for which special conditions exist and detection of the safety contour
 - Provide clear guidance on the S-57 objects and attributes that must initiate an alert and/or indication within ECDIS
 - Will reduce the number of extraneous alarms
 - Use of IMO defined viewing groups is now mandatory





Nature of Changes to PresLib (3 of 4)

Replaced complex Nassi-Shneiderman diagrams
 used to describe the Conditional Symbology
 Procedures (CSPs) with Unified Modeling Language



Changes to the Main S-52 Specification

A need to revise the colour calibration section of the main S-52 document was identified
S-52 Annexes B and C contained errors and obsolete references to CRT technology
Annex B has been deleted, Annex C has been corrected

+ Changes will result in new Edition 6.1 of S-52



Dependencies

 IEC is working on a new edition of IEC 61174, "ECDIS Operational and performance requirements, methods of testing and required test results"

 Revised IEC 61174 refers ECDIS chart related tests to S-64

 New S-64 will test new requirements in PresLib 4.0
 Many changes in the new PresLib will be carried forward into portrayal aspects of S-100 and S-101



... back to the Schedule

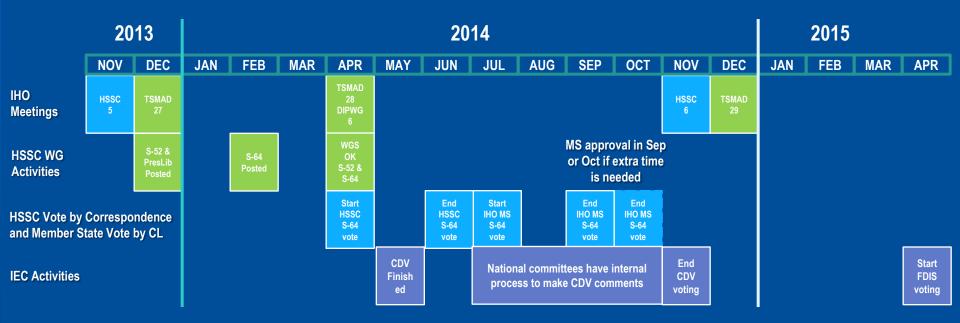
- Schedule for Preslib presented to HSSC4 was not fully realized
- Final drafts of S-52 6.1 and PresLib 4.0 were completed in Sept 2013, some digital files in Oct
- Nearly half of the companies that regularly attend DIPWG meetings participated in crafting the new editions, but ...

 full DIPWG membership has not reviewed the final result drafted by the OEMs and other experts



Action requested of HSSC (similar to TSMAD request for S-64)

- Approve an initial familiarization version by HSSC to be posted on IHO website
- Allow further review of S-52, Ed 6.1 and PresLib Ed. 4.0 by DIPWG (starting in late-Nov) and
- + Acceptance by WG at DIPWG-6 (April 2014)
- Endorsement of final version by HSSC-6 by correspondence
- Approval by MS by CL for publication in 2015, in line with the publication of new IEC 61174



Rationale / Justification

- + Proposed HSSC action will:
 - Enable a thorough review by DIPWG
 - Enable TSMAD to proceed with development of new edition of S-64
 - Enable HSSC to endorse fully vetted new editions of PresLib and S-64 at HSSC-6
 - Enable IHO MSs to approve new editions of PresLib and S-64 in time for concurrent release of:
 - S-52 PresLib, S-64 and EIC 61174

