

## Paper for Consideration by DIPWG

## S-52 Presentation Library v3.5 Development Issues

<b>Submitted by:</b>	DIPWG Chair
<b>Executive Summary:</b>	This paper seeks to facilitate a discussion of the recent proposal made at HSSC3 for the creation of a new version of the S-52 Presentation Library. A table is provided that describes the characteristics of each component of the recommendation.
<b>Related Documents:</b>	<p>a. UKHO Paper, TSMAD22/DIPWG3-08.8A, "<a href="#">Proposal to Produce a New Version of S-52</a>," presented at TSMAD22/DIPWG3 (Seoul, April 2011)</p> <p>b. UKHO Paper, HSSC3-05.3B_rev1, "<a href="#">Proposed Revision of S-52 Presentation Library by UKHO</a>," presented at HSS3 (Monaco, Nov 2011)</p> <p>c. UKHO Briefing Slides, "<a href="#">S-52 Presentation Library v3.5</a>," accompanying HSSC3-05.3B, presented by Barrie Greenslade</p>
<b>Related Projects:</b>	S-57, S-58, S-64, S-100, S-101

**Introduction / Background**

In April 2011 the UKHO presented the paper, [TSMAD22/DIPWG3-08.8A](#), "Proposal to Produce a New Version of S-52," at the joint TSMAD22/DIPWG3 meeting in Seoul. An action was given to the UK to present the proposal at the upcoming HSSC meeting to seek approval for the additional DIPWG work item. In November 2011, the UKHO presented the paper, [HSSC3-05.3B\\_rev1](#), "Proposed Revision of S-52 Presentation Library by UKHO," at the HSSC3 meeting in Monaco.

The effort presented to the HSSC was smaller in scope in that it proposed only to create a new Presentation Library and not a whole new edition of S-52. The paper and the accompanying briefing presented by Barrie Greenslade discussed several "ECDIS anomalies" that were initially identified by the UKHO and several other enhancements based on "significant user feedback." The proposal also recommended several actions that would support improving ECDIS or the development of the next S-100/S-101 based generation of the ENC, but strictly speaking, would not be a component of S-52 or its Presentation Library.

This paper seeks to facilitate a discussion of the UKHO proposal by breaking down the recommendation and describing the characteristics of each one, including:

1. List each component of the UKHO proposal
2. Identify those components that could potentially be part of a new version of the S-52 Presentation Library
3. Identify any other standards or specifications that would be affected by each component of the proposal.
4. Identify recommendations related to "ECDIS anomalies"
5. Whether the proposed change would, on its own, warrant issuing an immediate amendment
6. Show any specific S-52 changes that have been put forth

**Analysis/Discussion**

The table on the next page provides a preliminary indication of the six bits of information listed above.

Given this information, it is hoped that DIPWG will be able to do the following:

1. Determine which recommendations are within the purview of DIPWG
2. Prioritize which changes should be part of PresLib3.5 and which can wait for S-101
3. Identify any other urgent changes that should be added to the list of issues to consider for inclusion in the next version of the S-52 Presentation Library.
4. Determine who will analyze each of the issues slated for PresLib3.5 and propose specific changes

Proposed Change or Activity	Applicable to S-52 PresLib3.5	Other Affected Standards	ECDIS Anomaly Related	Would Change otherwise need an Immediate Amendment	Have Specific Recommended Changes been Provided?
Conversion of the complex conditional symbology procedures, currently in Nassi-Shneiderman diagrammatic form, to S-100 XML script language. Removing ambiguity from the technical language used within the standard.	No. S-52 does not support use of XML, although this activity is already underway to support development of S-100/S-101 portrayal.	Symbology Register S-101	No	No	No
For the purposes of alarms and indications, provide a detailed mapping from the IMO Performance Standard and IEC 61174; areas for which special conditions exist to S-57 object and attribute combinations.	No. This activity is related to IMO ECDIS PS, IEC 61174 and S-57, not S-52 or portrayal.	IMO ECDIS PS IEC 61174 S-57	No	No	No
Clarifications to definitions, citing examples, and technical language simplification	Yes		No	No	No
Inclusion of all current deferred amendments.	Yes		No	No	Yes, S-52 MD8 and MD9
In support of the proposed changes to S-52, create wider and more detailed test datasets (IHO S-64) to assist ECDIS manufacturers and type approval authorities.	Not directly. PresLib3.5 is not dependant on updating S-64.	S-64	Possibly	No	Yes, see TSMAD24/DIPWG4-11.2A, "S-64 – Additional Tests"
Update S-58 to reflect the changes in the presentation library.	Not directly. PresLib3.5 is not dependant on updating S-58.	S-58	No	No	Yes, see TSMAD24/DIPWG4-11.1A, "S-58 Rewrite"
Display of Anchor Berths radius	Yes		No	No	No
Display of Anchor Areas names	Yes		No	No	Yes, see Change 1 below
Display of major non-sectored Lights with 360 sector	Yes		No	No	No
Display of Fairway names	Yes		No	No	Yes, see Change 2 below
Display Fishing Facilities in standard mode	No. Allocation of objects to specific display modes is specified by IMO.	IMO ECDIS PS IEC 61174	No	No	No
Display boundaries of M_NPUB Areas	Yes		No	No	No
Assign obstruction objects to base mode	No. Allocation of objects to specific display modes is specified by IMO.	IMO ECDIS PS IEC 61174	No	No	No
Use of text weight	Yes		No	No	No

Proposed changes referenced in table above:

Change 1: Add OBJNAM for ACHARE to the lookup tables

"ACHARE", "", "SY(ACHARE51);LC(ACHARE51);TX(OBJNAM,1,2,3,'15110';0,0,CHBLK,26);CS(RESTRN01)", "3", "S", "STANDARD", "26220"

Change 2: Add OBJNAM for FAIRWY to the lookup tables

"FAIRWY", "", "LC(NAVARE51);TX(OBJNAM,1,2,3,'15110';0,0,CHBLK,26);CS(RESTRN01)", "4", "S", "STANDARD", "26050"

### **Conclusions**

Some specific and some not-so-specific changes have been recommended for the next version of the S-52 Presentation Library. Any given change can only move forward if it is supported by DIPWG member states and one or more individuals come forward to fully develop all of the aspects of implementing the change in PresLib3.5.

### **Action Required of DIPWG**

The DIPWG is invited to:

- a. Evaluate each recommendation
- b. Come to TSMAD24/DIPWG4 prepared to discuss the advantages and disadvantages of each recommendation and whether it should be included in PresLib3.5
- c. Identify any other recommendations (not to be part of PresLib3.5) that should be supported by DIPWG or TSMAD.
- d. Identify any recommended changes that you would like to assist in fully developing.