

## Paper for Consideration by ENCWG 6

## S-52 Clarification edition 4.0.4

Submitted by:	ENCWG Chair
Executive Summary:	Following the publication of S-52 edition 4.0.3 a number of further minor issues have been identified.
Related Documents:	S-64
Related Projects:	NA

## Introduction / Background

During preparation of the S-101 Portrayal Catalogue NIWC have identified a number of issues that may require publication of a further clarification edition of the S-52 presentation library. It was also brought to our attention by Navtor that a Chart 1 dataset had a minor issue with a coverage object.

## Analysis/Discussion

1. Potential safety issue: S-52 PresLib 4.0.3 Part 1, 10.4.1 para 2: recommend provide guidance on date dependent objects and safety check.
  - o <https://github.com/S-101-Portrayal-subWG/Working-Documents/issues/14>
  - o Should look-ahead during route monitoring evaluate objects based on the current date or on the mariner selected date(s)?
  - o Potential safety issue as ECDIS systems may implement differently, and different mariners may have different expectations.
  - o Recommend clearly distinguishing between display requirements and route check / route monitor look-ahead requirements with regard to date dependent objects and settings.
  - o Recommend: "ECDIS must always display date dependent chart data using the Mariner selected date or date range. When performing a safety check during route planning the ECDIS must use the Mariner selected date(s). The look-ahead function during route monitoring must use the [current date, mariner selected date(s)]."
  - o Considerations:
    - MSC.232(82) 11.2, 11.4.6 - look-ahead function operates independently of the data selected for display.
    - permanent indication on chart display is required when viewing date does not include current date
    - See IEC 61174 4.18 table 3 - "default" selection
      - sets viewing date to current
    - See MSC.232(82) 11.4.2 - single operator action to return to route monitoring
      - no requirement to change viewing date
2. Viewing group for bridge text is inconsistent ("21" in annex B, "26" in annex C, "21" in DAI for both plain and symbolized boundaries. Should use "26" in all cases.
  - o S-101 PC implements as "26"
3. S-52 provides no display parameters (display plane, priority, etc.) for SY(CHDATD01).
  - o <https://github.com/S-101-Portrayal-subWG/Working-Documents/issues/13>
4. S-52 4.0.3 DAI has incorrect drawing priority of "8" for instances of SY(INDHLT). Priority is "9" in appendices B-F.
  - o S-101 PC implements as "9"

5. Note S-101 implementation of light descriptions with unknown lightCharacteristic. Add guidance to S-52 if desired.
  - o <https://github.com/S-101-Portrayal-subWG/Working-Documents/issues/10>
6. Text is independent of the IMO display category
  - o S-52 6.1.1 2.3.3c para 2, last sentence: remove or restate.

2.3.3c Selecting text for the route monitoring display

The ECDIS manufacturer should provide the mariner with control over the selection and display of text on the route monitoring display.

Text should not appear automatically whenever the object it is associated with appears on the display. It should always be possible to remove text independently of the object. The IMO Display Category for text is 'other'.

As a guide to adding and removing text from the display, the Presentation Library distinguishes between "important text" and "Other text." Suggested groupings for text display are provided in the Presentation Library, Part I, section 9.1 and Table 14.4.

Section 3.4 of this document gives further details on text.

S-52 PL 4.0.3 Part 1, 9.1 para 3, sentence 2: remove or restate.

9.1 **SHOWTEXT**

**Name:**  
TX (Display of textual labels) or  
TE (Display of numeric or other formatted text strings)

**Syntax:**  
TX (STRING, HUJUST, VJUST, SPACE, 'CHARS', XOFFS, YOFFS, COLOUR, DISPLAY);  
TE (FORMAT, 'ATTRIB1,ATTRIB2,...', HUJUST, VJUST, SPACE, CHARS, XOFFS, YOFFS, COLOUR, DISPLAY);

**Description:**  
Show a text string at a particular position on screen. In order to show text on the display two commands are used:

1. For purely alphanumeric text, the "TX" Command is used.
2. For numeric text, a prefix is normally used to distinguish between numbers and soundings. For this purpose the "TE" command is used to format the text string shown on the display.

The description of how the FORMAT(ATTRIB) lookups and prefixes work is documented in section 16.3. The following text must be followed when rendering text on the chart display:

1. Text is normally coloured black, to give best readability under all light conditions.
2. Text must only be displayed when the object it applies to is displayed.
3. Text must always have display priority 8, to ensure it is readable, independent of the object it applies to.
4. The manufacturer must provide the capability to select "Important Text" and "Other Text", and he may also provide further text groupings if he so wishes.

The display of text must be controlled independently of the display of the object it applies to and the Mariner must have full control over the display of text. All text is in the IMO Category 'Other Information'. As a guide to organizing the display of text, the last two digits of the SHOWTEXT instruction give a text classification that distinguishes between "important" and "Other" text, and gives further suggested text groupings. The abbreviations used on the ECDIS display are listed in Section 14.6. All the abbreviations in section 14.6 must be readily accessible to the Mariner.

**Parameters:**

7. It has been identified that cell AA5C1CDE has two overlapping M\_COVR objects with attribute CATCOV = {1} (coverage available).

## Recommendations

It is recommended that the S-52 subgroup review the identified issues, and where necessary take appropriate action to create S-52 Presentation Library edition 4.0.4. The group should also consider if any change necessitates a clarification to S-64.

## Justification and Impacts

The initial assessment should be carried out by Aug 2021, if clarifications are required updates should be made and a redline version circulated to ENCWG by Oct 2021. Review of S-52 PL edition 4.0.4 complete and standard published by Dec 2021

## Action Required of ENCWG

The ENCWG is invited to endorse the proposal and agree to the timeline.