**S-100 - Part 16A (or S-52 7.0, or S-100 Part 9B)?**

**HARMONIZED PORTRAYAL OF S-100 PRODUCTS**

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# Scope

This Part (Specification?) provides a basis for harmonising portrayal across different S-100 based data products, to the extent such harmonisation is feasible across diverse data products. It does not address the portrayal process, functionality, or architecture, which are addressed in other S-100 Parts (especially 9 and 9A), but instead focuses on presentational design aspects, such as display organisation, colours, and symbology.

# Conformance

[Conformance statement TBD.]

[Much of this document will be derived and/or adapted from the corresponding clauses of S-52, mostly clause 3 and 4, but also including selected sub-clauses from clause 2, such as, 2.1.1 (Design considerations) , 2.1.3 (Colour discrimination on the display: perception effects and display calibration), 2.3.1 (Display of non-chart information), etc.]

# References

IEC 61174 Maritime navigation and radiocommunication equipment and systems – Electronic chart display and information system (ECDIS) – Operational and performance requirements, methods of testing and required test results. International Electrotechnical Commission (IEC), Edition 4.0, 2015.

MSC 232(82) Revised Performance Standards for Electronic Chart Display And Information Systems (ECDIS), IMO Resolution MSC.232(82), 2006.

S-52 IHO Publication S-52, SPECIFICATIONS FOR CHART CONTENT AND DISPLAY ASPECTS OF ECDIS, Edition 6.1.1, June 2015.

# Introduction

[International organisations and their related standards for ECDIS - S-52 1.1.4.]

[ECDIS concept and limitations - S-52 1.2(depending on scope?).]

[Type approval - S-52 1.4.6.]

[Considerations related to dual fuel ECDIS (depending on scope?)]

[Discussion about non-ECDIS applications in relation to standardisation, type approval, concept and limitations.]

# Display Organisation

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# Colours

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## Colour set-asides

[Move (copy?) colour set-asides from S-100 P16 Appendix 16-B clause 16-B.3 here, and expand usingTable 1. GENERAL COLOUR ASSIGNMENT FOR ECDIS FEATURES.]

## Colour tokens, profiles and palettes

General overview of colour tokens, colour profiles, palettes? Colour tokens are mentioned quite often in S-100 4.0.0 and there are registry classes for registering them, but little about what they are and the intended significance of intended tokens. The significance (intended use) of specific colour tokens should also be listed somewhere for S-100 usages, e.g., Table 3 from S-52 (e.g., extract reproduced below).

|  |  |  |
| --- | --- | --- |
| **token** | **colour****(day/night)** | **Use** |
| CHBRN | brown | built-up land areas, etc. |
| CHGRN | green | general, including buoys. |
| CHRED | red | general, including buoys. |
| CHYLW | yellow | general, including buoys. |
| CHMGD | magenta, conspic | dangers, important magenta chart features. |
| CHMGF | magenta, faint | less important magenta chart features. |
| CHCOR | orange | manual chart corrections made by the mariner. |
| CSTLN | grey, conspic | coastline (high water line), including wharf and dock faces. |
| CURSR | orange | cursor, also mariner's EBLs and VRMs. |
| DEPDW | white/black | area fill colour for deep water, depth greater than the deep contour selected by the mariner. |
| DEPMD | blue | area fill for medium-deep water, deeper than the SafetyContour. |
| DEPMS | blue | area fill for medium-shallow water, less than the SafetyContour. |
| DEPVS | blue | area fill for very shallow water, less than the shallow contour. |
| DEPIT | yellow-green | area fill for the intertidal zone between the drying line and the high water line. |

# Text

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# Vector features

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# Coverages

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# Specifications for the display screen(?)

TBD. S-52 describes:

1. physical display requirements
2. guidelines for reproducing small features and symbols
3. color display capability
4. color conversion tolerances
5. color differentiation test diagram

The guidelines for small features/symbols (#2) should be appropriate for this document and the others are “maybes”.