Interoperability Catalogue Functional Principles Overview

S100WG4

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Sponsored by NOAA

Motivation for this white paper

- SHOM made a comment during reviews of S-98 (Interoperability Specification) on the nature of the document being highly technical and not including an overview of the purpose;

	FR		General comment	ge	Interoperability principles	Clarify certain principles of interoperability beyond their technical description

- To address this comment, a white paper was drafted and it provides high level information about S-98.
- The white paper is written as a foreword to S-98, but can be amended to become an independent document.

Content

- Background
- Principles of interoperability
- Purpose
- Functional overview
- Administration aspects of interoperability
- Data Encoding Guide
- Implementation of interoperability support

Content - Background

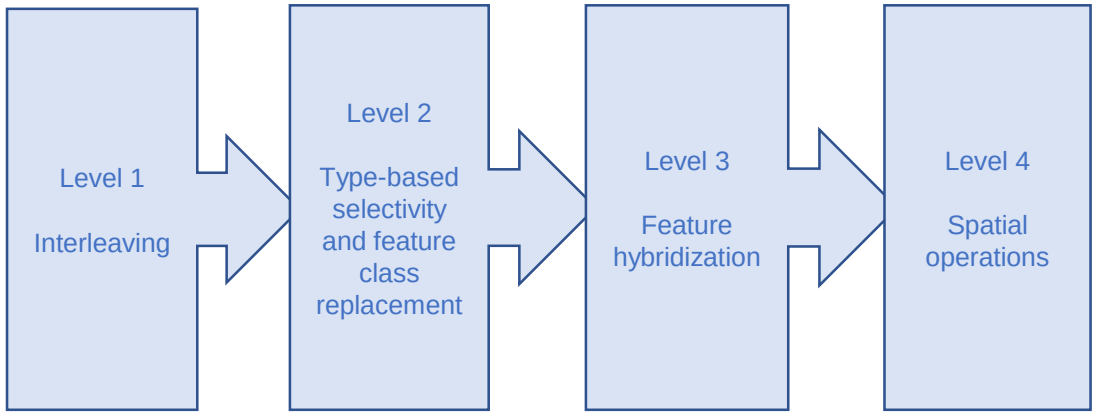
- A paragraph to explain the current situation with ECDIS interoperability and why there is a need for a common method in S-100 ECDIS.
- Also giving the background of the founding principles for the specification;
  - The interoperability catalogue specification has been created using input from a survey by S-100WG of experts in ECDIS, government participants, and S-100-based product specification. The survey results were used to create the framework which was then validated by review by members of S-100WG. Subsequently the overall specification was created.

Content - Principles of interoperability

- High level description of basic principles of interoperability in ECDIS.
- Talks about the relationship between ENC and additional layers.
  - I.E. two types of layers;
    - 1 – additional information
    - 2 – enhancements to information already in ENC.
- Touches on rules that governing interoperability.

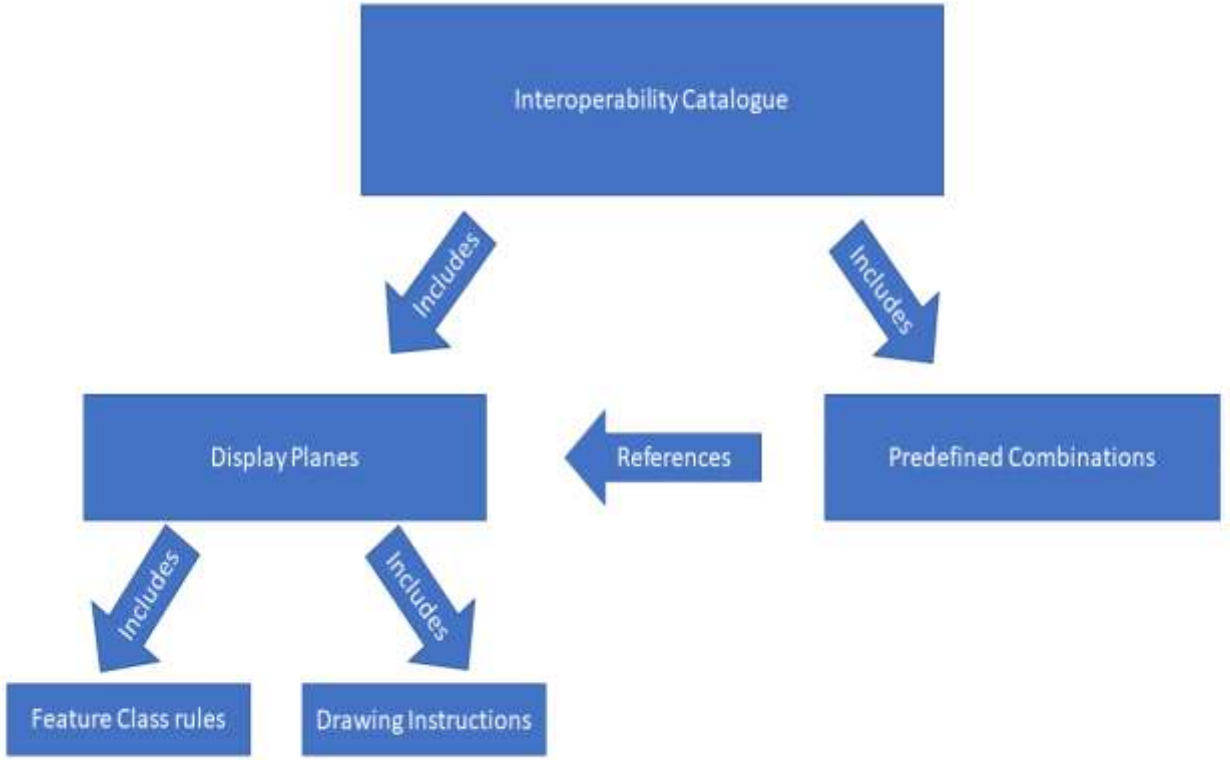
Content - Purpose

- Explains that the interoperability specification is developed as a framework for capturing interoperability rules for use in ECDIS.
- Includes descriptions of the four levels of interoperability and how these are of increasing degree of interoperability. Also clarifies that Levels 3 and 4 are not yet fully elaborated.



Content - Functional overview

- High level description of the functional aspects of IC.
- Gives a high level overview of the IC.
- Includes a brief on the IC maintenance process.



Content - Administration aspects of interoperability

- Explains the need for harmonization and cooperation between teams that develop and maintain in scope product specifications that will be used in the interoperability concept.
- Section stresses that specifications that are in scope for the IC, are part of the same eco system and the management process needs to reflect this.

Content - Data Encoding Guide

- Gives justification for the encoding guidance included in the interoperability specification.

Content - Implementation of interoperability support

- Gives a brief overview of different parts of implementation guidance that the Interoperability Specification includes.
- Mentions the need to consider software quality when implementing the IC support in an ECDIS, and references IMO guidelines for software quality as the main principles to follow.

Questions?