

## Paper for Consideration by HSSC15

### Request to approve S-124 for edition 1.0.0

<b>Submitted by:</b>	S-124PT Chair
<b>Executive Summary:</b>	S-124 Navigational Warning Project Team has concluded that S-124 Product Specification is now in a condition where it is beneficial to release the product specification as version 1.0.0. since this will enable next level testing in the subsequent phase of development and contribute to answering outstanding questions regarding stakeholder responsibilities with regards to S-124 services.
<b>Related Documents:</b>	S-124
<b>Related Projects:</b>	S-100

#### Introduction / Background

The S-124 Navigational Warning Project Team as a body under the World Wide Navigational Warning Service Sub-Committee is developing the S-124 product specification for Navigational Warning products. The development has reached a sufficiently mature stage that a candidate package for going to Edition 1.0.0 of the product specification is herewith submitted for HSSC approval.

#### Analysis/Discussion

The development process has included several rounds of review by the working group members and expert contributors who have contributed with valuable proposals and comments. The draft specification is anticipated to be used by several stakeholders in various testbed to guide the creation of S-124 Navigational Warning services. As such it is important to stabilise the product specification now that it has reached a sufficiently mature level. Moreover, this would give other implementors such as developers of product systems and users system a stable specification to test and evaluate for implementation into their systems, allowing national authorities and other competent authorities to conduct their own tests with local data.

Throughout the development several challenges have been encountered with the S-100 framework, including the S-100 Infrastructure. These challenges are in various stages of mitigation, for example, testing has observed that the metadata is often bigger than the actual data, through discussions with S-100WG, some of this has been addressed by more metadata attributes being optional in S-100 Ed. 5.0.0 than in previous editions. Moreover, the method of data loading governed by the metadata is not fully compatible with the needs of S-124. Other challenges encountered is that the S-100 General Feature Model permits several named spatial attributes, while the Feature Catalogue model has an implicit relationship to a spatial attribute named geometry, which seems to not be present in the Feature Concept Register. This resulted in a need to adjust the data model to fit the limitations of the FC model. All these known issues will be worked on during the test phase in anticipation of an operational version of S-124 in accordance with already provided timelines.

#### Recommendation

Despite the ongoing challenges, S-124NW Project Team has concluded that S-124 Product Specification is now in a condition where it is beneficial to release the product specification as version 1.0.0. This would allow S-124NW PT to continue development and test assumptions made and further enhance the S-124 product specification if grounds for this is encountered through said testing.. It is therefore recommended that the S-124 package in Attachment A be approved as Edition 1.0.0.

#### Action required of HSSC

The HSSC is invited to:

- a) note the paper
- b) approve S-124 for Edition 1.0.0
- c) Invite stakeholders to establish or join S-124 testbeds, and share experiences with S-124PT and WWNWS Sub-Committee