

Information Paper

Progress in the development of the S-100 Product Specification for Navigational Warnings (S-124)

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| Submitted by: | Leader of the S-124 Correspondence Group (Mr Yves Le Franc – France) |
| Executive Summary: | The IRCC/ World-Wide Navigational Warning Service Sub-Committee (WWNWS-SC) created an S-124 Correspondence Group in October 2013 to develop an S-100 Product Specification for Navigational Warnings. This paper reports on the work of the S-124 CG. |
| Related Documents: | On IHO/IRCC/WWNWS-SC/S-124 CG web pages |
| Related Projects: | E-navigation, modernization of the GMDSS, Maritime Service Portfolios |

The S-124 CG

The objective is to develop an S-100 product specification for Navigational Warnings (MSI/NWs) to improve dissemination and integration within bridge systems and shore systems via a digital format. The product specification is expected to contribute to the technical infrastructure of the e-navigation as designed by IMO and to the modernization of the Global Maritime Distress and Safety Systems (GMDSS).

Since NIPWG1, Canada, Republic of Korea and Jeppesen joined the CG.

The members are:

Australia, Canada, Denmark (Danish Maritime Authority), France, Greece, Japan, New-Zealand, Norway, Republic of Korea, Sweden, Turkey, United-Kingdom, United States, CIRM, KRISO and Jeppesen.

Activities since July 2015

During the NIPWG1, KRISO presented a S-100 KRISO-Jeppesen harmonized model with input from DMA for NWs and for T&P NMs ([NIPWG1-16.2](#)).

The S-124 CG decided to adopt this draft harmonized model for further work of the CG.

The S-124 CG is focused only the part of the model that applies to the NWs.

It is suggested that the interest of the generic aspect of the model including T&P NMs should be reviewed in the global approach of the provision of the nautical information in the perspective of MSP (NIPWG action item 1/13), noting that T&P NMs are taken into account in the S-101 development (cf. HSSC 7 minutes).

The CG is refining the data model (application schema), taking into account requirements for digital NWs. Some requirements are derived from a draft [scenario](#) of the use of digital NWs aboard. This scenario outlines solutions that meet the user needs and gaps. A S-123 product is used in it. The CG considers also the period of transition where a dual production of NWs (S-124 and current S-53) will exist.

A new version of the draft model with the draft text of the production specification (PS) have been prepared during the last quarter of 2015 (not yet published on S-124 CG web pages) in the perspective of its review via a coding exercise based on samples of real NWs. DMA offered that some of the testing of the model will take place into the EfficienSea 2 project.

The new version of the draft model integrates:

- Possible geolocation of each part of the NW's text: each part of the text can refer to a specific geolocation; this principle could also be applied to T and P NMs, paper chart corrections, description of the approaches in sailing directions or maritime regulations.
- "Affected area" (or "caution area"): i.e. an area surrounding the location of the event subject of the NW. This area is supposed to be used by the ECDIS to notify mariner when the ship's route cross the affected area (e.g.: the area that corresponds to the range of a light extinguished).
- Multilingual texts as GMDSS NWs must be issued in English and additionally in national language.

The draft PS is established in line with GML but some questions have been raised regarding the format (ISO8211, GML ...) to be used in the S-124. The advice of the IHB is to continue to progress on the model, the question of the format could be treated later in liaison with S-100 WG.

In the next future, the CG will have to consider the capabilities and the requirements of the communication systems that would be used in the modernized GMDSS.

S-124 CG's leader attended to the IALA ENAV 17 meeting (26-30 Oct. – Brest – France). The scope of the S-124 and the CG's work were presented. There is no overlap between IALA and IHO in the field of S-100 product specification for NWs.

Action Required of NIPWG

The NIPWG is invited to note this information.