Paper for consideration for NSHC
[S-100 Product Specification for Navigational Warnings]

Submitted by:	France
Executive summary:	This paper gives information on the work of a correspondence group of WWNWS about an S-100 product specification for navigational warnings, in order to allow the development of solutions which meet the needs and the gaps on board and in organizations ashore, in compliance with the e-navigation architecture approved by the IMO.
Related Documents:	-
Related Projects:	-

Backgroung

Maritime Safety Information (MSI) is essential for the prevention of maritime accidents. IMO's works on e-navigation has shown that there is a particularly high expectation for improvement of the dissemination of MSI and its integration within bridge systems (eg MSI displayed on ECDIS) and shore systems, while the GMDSS, undergoing modernization, is facing the obsolescence of the TELEX technology.

Navigational Warnings (NW) are a part of the MSI on which the HOs and IHO should act to adapt the products and services to the new needs of the safety of the navigation. In the case of NW, a digital exchange format is expected.

In this perspective, the IHO **World-Wide Navigational Warning Service Sub-Committee** (WWNWS) established in October 2013 a dedicated Correspondence Group to develop an S-100 product specification (PS) for navigational warnings (S-124). This PS must allow the development of solutions which meet the needs and the gaps on board and in organizations ashore, in compliance with the e-navigation architecture approved by the IMO.

The S-100 Product Specification for Navigational Warnings Correspondence Group (S100NW CG)

Today, the S100NW CG is composed of IHO members of Australia, France (leader), Greece, Japan, New-Zealand, Norway, Sweden, United-Kingdom and United States. CIRM (comité international radio-maritime) and the Danish Maritime Authority (DMA) also joined the group.

At this stage, the CG is currently reviewing needs and gaps identified by the IMO correspondence group on e-navigation via a use case diagram showing stakeholders and theirs roles in the nautical information field, from collection of original information to the use of on board (see annex). This method is used to design the model (S100 UML modeling) of nautical information, especially of NW, that will better contribute to solutions.

With DMA, an initial model from ACCSEAS project was provided (see Annex). It will be examined and consolidated with the method above. Tests are also expected.

Generally, it would be convenient that the various initiatives and studies on digital NW feed the CG's works to contribute to the future standard. It is also a mean to exchange ideas/works between projects. So, new volunteers to join the S100NW CG are welcomed.

Beyond S-124

E-navigation entails New ICT and integration of systems including the information they contain, and requires reliable, fresh and consistent nautical information provided via different and coordinated digital forms. Moreover, new requirements concern the local, national and international organizations for nautical information in which HO's are very involved.

Action required of NSHC

The NSHC is invited to take note of the paper.

Annex

Field of coordinator

- Elaborate Navigational Warnings (S-53)
- Manage Warnings
- Send Warnings to broadcasters
- liaise with other coordinators and producers of nautical products

Coordinator (NAVAREA, NAVAREA Sub-Area, National coordinator)

Field of broadcaster of NW

- Receive warnings
- Manage Warnings
- Broadcast warnings

Broadcaster (NAVTEX coordinator, Coast Earth Station)

Systems on vessels related to nautical information

- To know the nautical information needed for the safety of navigation.
- Receive

Shipboard user

Field of HOs

- Manage Nautical Products
- Liaise with coordinators as with others producers of nautical products
- Distribute Updates (via distributors)
- Update Nautical Products (S-4 part B-600 and S-57 UOC)
- Elaborate Temporary Notice
- Elaborate Preliminary Notice
- Elaborate Permanent Notices and editions

Nautical products producer (HO)

System onshore related to nautical information

- Receive
- To take into account of the nautical information

Other Onshore User

S100NW CG - use case diagram - V0 - 14 May 2014