Paper for Consideration by NIPWG

Report on S-100 Wg activities

Submitted by:	Germany (BSH)
Executive Summary:	Provide information on the recent S-100WG Test strategy meeting
Related Documents:	S-100
Related Projects:	none

Introduction / Background

Some members of the S-100WG meet regularly for test strategy meetings. These meetings are focused on future S-100 developments.

The last test strategy meeting took place at the BSH in Rostock September 2016.

Analysis/Discussion

Status of S-412

A total of 37 features and 126 have been developed. The group checked data model components which have been developed by other ProdSpecs to avoid duplications and to save development work. The harmonisation of terms used differently was successfully conducted (e.g. use of terms such as hurricane or storm, different wind speed indicators). The estimated completion date is May 2018 and it is intended to provide information as a back bridge service.

S-100 Part 9

It was a long discussion on the use of XSLT for portrayal or the replacement of XSLT by Lua (an extremely flexible programming language used by the gaming community). The decision made was that an appropriate remark should be placed at part 9 of the S-100 edition 3.0 which will come into force in 2017 and that this remark explains that part 9 must not be used for a product specification development and that a final decision of the programming language to be used will be provided in version 4 of the S-100.

Portrayal register

The portrayal register will employ the same administration chain as being used for features. The group was fully aware of the fact that not all components of the decision chain will be used; e.g. "clarifications" will not be used. All amendments should be "corrections".

ProdSpec developer should note that 3 portrayal instructions for three display modes "day/night/dusk" should be delivered if the ProdSpec will be a front bridge service.

Interoperability

A lengthy discussion on that topic brought up the difficulties and underlined the complexity of that function. In principle, the ENC will be the basis for all products. Features which enhance the ENC information should be repeated at the product level. A ProdSpec should define whether interoperability applies. Filtering will only be made post-processing. The original source of each product remains unchanged. The "single click" function to get back to the original product should remain untouched.

The NIPWG contribution to the paper which describes the interoperability requests was appreciated.

S-128

The S-128 ProdSpec intention was introduced. It was highlighted that this ProdSpec doesn't cause conflicts with S-63. Preferably, both ProdSpecs should use the same set of metadata. The use of S-128 outside the IHO was discussed. Industry members request that the S-128 development should consider the IALA and IMO e-nav activities to accommodate the potential MSP development.

It was requested to establish a conference call (skype) with the S-100WG chair and the S-63 Chair during the S-128 discussion at the NIPWG3 meeting.

S-124

That needs a legal status by IMO before the current information delivery process could be replaced. That status is rather unlikely to be obtained in the nearest future.

IMO SOLAS 9 Chapter V and ECDIS Performance Standards

The difficulties to bring the new S-100 based ProdSpecs to IMO's attention were discussed.   Member States must be convinced to submit an appropriate note to IMO that new ProdSpecs are available and that the current documents need revision. That can only be initiated when the products and related processes are established and when the services are on a stable level.

S-64 could be prepared that tests of S-57 and S-101 ENC could be done in parallel. S-64 could be extended if new ProdSpec emerged.

e-navigation

A proposal to develop a "Performance Standard for e-nav systems on board" should be initiated by an IMO member state.

KHOA test bed

S-122 (MPA) will be used as a GML example. Following components should be delivered:

- Exchange set catalogue
- Test data set
- Feature catalogue
- Portrayal catalogue

Numbering and other issues with Feature Catalogues and Portrayal Catalogues

The current provision of different numbers for the catalogues and S-100 editions was discussed. It was decided to synchronise the version numbering according to the S-100 editions number on which the ProdSpecs/catalogues are based on.

The provision online vs. offline catalogues was discussed. The meeting decided to postpone that discussion to a later stage and that a follow-up discussion will take place at next year's meeting. That procedure applies for the accumulative vs. separate catalogue discussion as well.

IALA proposal on data streaming

It was decided that S-100 will support data model and not data streaming.

Feature Catalogue Builder

The introduction of supertypes (providing common characteristics to various features) is needed.

Supertypes should only be registered if they are of interest for the whole community. Otherwise, they have to be described at the product specification level.

Action Required of NIPWG

The NIPWG is invited to:

a.　　Note this paper.

b.　　define actions if considered necessary and as appropriate.