

Paper for consideration by SNPWG17

Overview of the work status

Submitted by:	SNPWG Chair group
Executive Summary:	Introduction of the current work status
Related Documents:	http://www.iho.int/mtg_docs/com_wg/TOR/SNPWG_TOR.pdf http://www.iho.int/mtg_docs/com_wg/SNPWG/SNPWG_Misc/ProdSpecDevelopment.htm http://www.fuerstenberg-dhg.de/mediawiki/index.php/Main_Page
Related Projects:	S-100 Ed. 2.0.0 S-122, S-123, S-125, S-126, S-127

Introduction / Background

This WG is a subsidiary of the Hydrographic Services and Standards Committee (HSSC). Its work is subject to HSSC approval.

Analysis/Discussion

Based on the XVth IH Conference decision, the ToR of the SNPWG was changed from focussing on paper products to the new objective: "develop guidelines for the preparation of Sailing Directions in digital format, compatible with ECDIS." "The WG should keep close liaison with CHRIS (Decision No39)."

The first SNPWG meeting based on the new ToR and objective was held in Monaco in 1999.

Since then, the group has developed a scope of nautical publication content. Based on that scope, development of a data model based on S57 was started.

In the meantime, the TSMAD started to develop a new IHO Universal Hydrographic Data Model named S-100. Introduced early 2010, S100 has had significant impacts on the SNPWG data model. It now allows the option to extend the set of features by information objects and complex attributes. These new types offer greater flexibility of the model.

The IHO introduced a registry based on S-100 in 2010. Although the status of the SNPWG data model is very stable, the SNPWG features and attributes are not sufficiently populated in the IHO Registry due to missing functionalities. Instead, the SNPWG has stored their relevant features and attributes on the SNPWG wiki.

The HSSC5 has endorsed the intention to develop several product specifications related to nautical publications. Furthermore, the HSSC has assigned specification numbers to the planned product specifications. Those are:

- S-122 Marine Protected Area,
- S-123 Radio Services,
- S-125 Navigational Services,
- S-126 Physical Environment, and
- S-127 Traffic Management.

The S-122 Marine Protected Area Product Specification will be developed as an independent Product Specification. In addition, this Product Specification will become part of the S-127 (Traffic Management). Both the S-122 and S-127 Product Specifications are intended to work together with an underlying S-101 ENC.

A further Product Specification is under development which will provide Marine Protected Area information as a product independent from an S-101 ENC.

SNPWG teams developed draft data samples for S-125, S-126 and S-127 as the basis for the scheduled Product Specification development. The development of the S-122 and S-123 Product Specifications is making significant progress along the intended time line. The Product Specifications development evoked amendments of the SNPWG data model. These amendments are included in the SNPWG wiki.

The further development of all Product Specifications depends on the S-100 Ed. 2.0.0 progress. The SNPWG supported and continues to support the S-100 Ed. 2.0.0 evolution with:

Note: FOR REASONS OF ECONOMY, DELEGATES ARE KINDLY REQUESTED TO BRING THEIR OWN COPIES OF THE DOCUMENTS TO THE MEETING

- a proposal of persistent unique identifier,
- a proposal of names for association ends (role names),
- a proposal of additional spatial types,
- valuable contributions to the temporal model,
- a proposal for adding of code lists.

The persistent unique identifier supports the idea of scale-dependent and scale-independent data storage in future ECDIS systems. Although the scale-independent data storage was postponed by TSMAD, the introduction of such an identifier is an essential precondition.

In addition, the progress of the Product Specifications development depends on components to be delivered by other IHO technical working groups. The SNPWG is working very closely with these working groups.

As a follow up action of HSSC4, the SNPWG was directed to improve the group's performance and to improve the transparency of the group's work. Thus, the SNPWG 16 agreed to the establishment of a timeline tool. This timeline tool needs further improvement and it was suggested to introduce the following additional tasks as part of the Application schema task:

- Mapping of NP1 sample to application scheme,
- development of data format (e.g. GML schemas),
- creation of datasets.

Conclusions

SNPWG work will have a significant impact on the future presentation of nautical publication content to the mariner. The idea behind SNPWG is that most information would be accessible by ECDIS or systems closely interacting with ECDIS. It was stated that in future ECDIS systems the S-101 ENC will be the basis for the information presentation. Thus, the development of Product Specifications which are interacting with ENCs is a SNPWG focus.

The introduction of further items to the timeline tool supports the transparency of the group's work.

Recommendations

SNPWG17 is invited to continue the work and to update the work plan,

Justification and Impacts

Reflecting SNPWG work, HO's might slightly change the provision of current nautical information in both detail and presentation.

Action required of SNPWG17

The SNPWG17 is invited to:

- a. note this paper.
- b. consider the improvement of the timeline tool.