Paper for consideration by NIPWG1

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://wp12183585.server-he.de/npubwiki/wiki/index.php/Main_Page http://www.iho.int/mtg_docs/com_wg/HSSC/HSSC_Misc/HSSC_Work_Plan_2015-16_current_20150112.pdf
Related Projects:	S-100 Ed. 2.0.0 S-122, S-123, S-125, S-126, S-127

Introduction / Background
The SNPWG as the predecessor of the NIPWG was a subsidiary of the Hydrographic Services and Standards Committee (HSSC). The work was subject to HSSC approval.
Consequently, the NIPWG is a subsidiary of the Hydrographic Services and Standards Committee (HSSC) and the 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, S-100 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. 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). Although it is assumed that an ENC is always present on an ECDIS screen, both product specifications will provide context information which provides a chart layout.

Although the development of the data sample for S-125 is pending due to a lack of experienced personnel, other SNPWG teams developing draft data samples for S-123, S-126 and S-127 as the basis for the scheduled Product Specification development. Apart from the S-123 data sample which is considered as relatively stable, the

provided drafts of the S-126 und S-127 Product Specifications are undergoing reviewing processes and they are constantly improving in both scope and detail.

In parallel, the development of the S-122 and S-123 Product Specifications is making significant progress along the intended time line. The Product Specifications development promoted amendments of the SNPWG data model. These amendments are included in the SNPWG wiki.

Having influenced the S-100 development by proposing various improvements, the SNPWG/NIPWG is awaiting the endorsement of the S-100 Ed. 2.0.0 to continue the development of the S-122 Product Specification.

The progress of the Product Specifications development depends on components being delivered by other HSSC technical working groups. The SNPWG is working very closely with these working groups.

For tracking purposes, the SNPWG introduced traceability matrixes for the Product Specification development. The control of these Matrixes belongs to the development teams.

Conclusions
The work done by the SNPWG will have a significant impact on the future presentation of nautical publication content to the mariner. The idea 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 interact with ENCs was a SNPWG focus.

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

Recommendations
The NIPWG1 is invited to continue the work started by the SNPWG and to update the work plan accordingly,

Justification and Impacts
Reflecting SNPWG/NIPWG work, HOs might slightly change the provision of current nautical information in both detail and presentation.

Action required of NIPWG1
The NIPWG1 is invited to:

a. note this paper.