

Paper for Consideration by NIPWG

Context of the S-1xx N PUB ProdSpec use

Submitted by:	NIPWG Chair
Executive Summary:	Information on context of each N PUB ProdSpec under NIPWG development
Related Documents:	none
Related Projects:	none

Introduction / Background

A generic overview of the intended information provision of each product specification which is under the responsibility of NIPWG and of which the development is ongoing or planned was requested during the last NIPWG meetings.

The provision of various product specifications which either implement additional information in future ECDIS systems and/or other electronic devices or which enhance the ECDIS information was endorsed by CHRIS/HSSC with the initiation of the S-100 (Universal Hydrographic Data Model) development in 2005.

At HSSC5 in 2013, the Committee endorsed the first set of product specifications on which the development should be focused on for the next couple of years.

The NIPWG has the responsibility to develop the following product specifications:

- S-122 Marine Protected Areas,
- S-123 Radio Services,
- S-125 Navigational Services,
- S-126 Physical Environment,
- S-127 Traffic Management, and
- S-128 Catalogue of Nautical Products.

Analysis/Discussion

The NIPWG has the responsibility to develop the following product specifications:

- S-122 ,describing protected areas and related features, regulations, and similar information about protected areas.
- S-123 ,indicating the location, availability, type of radio communications, frequencies, and content of radio services for navigational information and other maritime radio communications.
- S-125 ,describing navigationally including lights and other navigation aids, both physical and virtual, temporary and seasonal marks, and local AIS application-specific messages
- S-126 ,describing marine and terrestrial topography, prevailing, seasonal, and hazardous currents, tides, weather, and other environmental conditions.
- S-127 ,describing vessel traffic services, pilotage, routing systems, and ship reporting systems.
- S-128 ,describing the product, coverage, and publication information of various products, ranging from paper publications such as paper charts and printed sailing directions to digital products such as ENC's and e-Navigation services.

The relationship between the S-100 framework and product specifications for nautical publications is shown in the following figure.

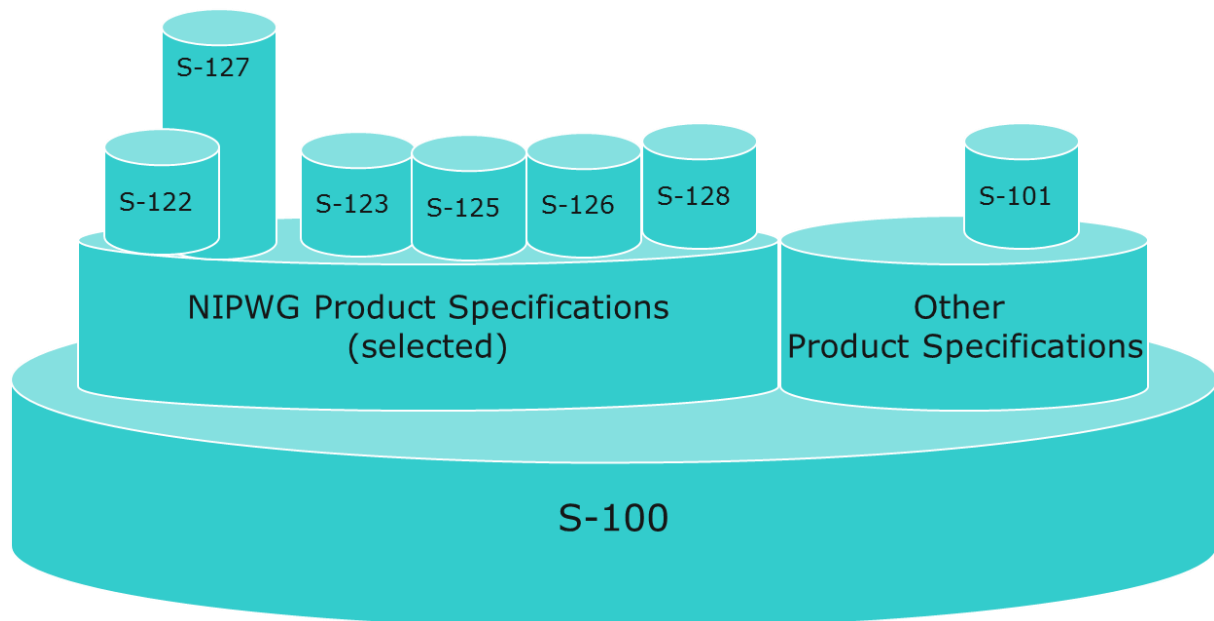


Figure 1. Relationships between the S-100 framework and product specifications

The determination of the NIPWG product specifications bases on investigations which were performed during the data model development. Based on experiences by other HSSC WGs, NIPWG decided that due to the information complexity of printed nautical publications, the development of a single product specification which would cover all information of nautical publications is too ambiguous. The information of nautical publications was broken in little bricks and these bricks were newly ordered according to their semantic belonging. The result is a set of product specifications which provide data models for nautical information and not for nautical publications.

A repetition of charted content in NUPWG products is not expected. NPUB product specifications might employ an ENC or any other vector chart as background.

Conclusions

The division of nautical information into products which base on different S-100 based product specifications provides the widest possible simplification during the product specification development. The set of NPUB product specification bases on a semantic information collection.

Recommendations

The development of the various NPUB product specifications should be continued according to the NIPWG work plan endorsed by HSSC.

Action Required of NIPWG

The NIPWG is invited to:

- a. note this paper.
- b. Discuss whether to intended context is still in line with the current developments.