CHRIS18-6.4A

18TH CHRIS MEETING
Cairns, Australia, 25-29 September 2006

Report of the Standardization of Nautical Publications Working Group (SNPWG)

Submitted by:	Johannes MELLES, Germany
Related Documents:	Minutes of the 5th SNPWG meeting. (25 - 27 October 2005), KMS, Copenhagen, Denmark
	Minutes of the 6th SNPWG meeting. (19 - 23 June 2006), IHB, Monaco
Related Projects:	Not applicable

Chair:	Johannes MELLES, BSH, Germany
Vice-Chair:	David ACLAND, UKHO, United Kingdom
Secretary:	John NYBERG, NOAA, USA
Member States:	Argentina, Australia, Cuba, Chile, Denmark, Estonia, France, Germany, India, Italy, Japan, Korea (Rep. of), Portugal, Russia, Spain, Sweden, UK, USA
Expert Contributor Organisations:	Nippon Sogo Systems, Inc, IIC Technologies

Meetings Held During Reporting Period

October 25 – 27, 2005, KMS, Copenhagen, Denmark
June 19 – 2 3, 2006 - IHB, Monaco

Date and venue for next meeting

February 12 –16, 2007 – BSH, Rostock, Germany

Work Program

Since the 17th CHRIS-Meeting in Rostock SNPWG met twice and made some progress according to the work program of the working group.

Content requirements

NPs were analysed to determine which content is needed for NP3. BSH has done this work for its NPs and UKHO has analysed their NPs. A so called "Scope document for the modelling work" was produced. The content of the Scope document is organised in following logical groups:

- Marine Services
- Traffic Management
- Harbour Infrastructure
- Social / Political
- Environment
- Hydrography – Partly done with S-57
- Topography – Partly done with S-57
- Reference

After three iterations of review the scope document was approved at the SNPWG meeting in Copenhagen.

The WG decided, that it is not necessary to develop UML-Models for each object class. UML-Models should be used as additional help during the process of creating new object-classes and attributes.

The work of developing new object-classes and attributes as an extension to S-100 started at the Copenhagen-Meeting and was continued at the meeting in Monaco.
Good progress was made, so that we think the WG could finish this work item in 2007.

Next steps

SNPWG wants to finish the work on the development of new object-classes and attributes and to set up the Nautical Publications Register in 2007. Therefore the database and the user interface for the IHO Feature Data Dictionary Registry must be available.

Presentation of NPs in ECDIS

One task given to the SNPWG is the investigation in display requirements of digital nautical publications intended for use in ECDIS.
Before SNPWG can start with the work on the presentation of NPs in an ECDIS the work on the development of new object-classes and attributes must have reached a state, that first test data-sets can be produced.
The offer of the University of New Hampshire (UNH) to start a project on this topic as expressed by Dr. Lee Alexander at CHRIS17 in Rostock was welcomed by the WG.
It is planned to have a SNPWG meeting in the US in the end of 2007. Maybe it could be at UNH.

Test data

This work-item was added to the SNPWG Work Plan because the WG is of the opinion that it is not sufficient to work only theoretically on the data structure and the display requirement. To give the mariner the right information, presented in the right way it is absolutely necessary to produce test data-sets and run test-beds.
The SNPWG is looking for partners (industry and HOs) who can take over some of the work, like data-production, providing systems for the test-bed etc.

Progress on CHRIS Action Items

There were no CHRIS Action Items for the SNPWG.

Problems Encountered

No problems.

Any Other Items of Note

Sub-Working Groups
To make the work more efficient the SNPWG decided at the Copenhagen meeting to build sub-working groups. Each of them had the task to draft the object classes and attributes for some of the logical groups which were defined in the content requirements. The Sub-WGs were not just built for the meeting. They should stay and also work between the meetings. Following three Sub-WGs were built:

- Northern European Sub-WG

  Logical Groups: Marine Services, Harbour Infrastructure

- Western European Sub-WG

  Logical Groups: Social / Political, Environment (and Nav Marks)

- Americas Sub-WG

  Logical Groups: Traffic Management, Topography, Hydrography

The Sub-WGs are working by communication and have meetings between the SNPWG-meetings. That's why they are organised geographically.

Nautical Publications Register
The SNPWG decided only to change or add to the "Hydro Register", which is maintained by TSMAD, where there are already geo object classes or feature object attributes which could be used for NPs.

SNPWG wants to establish its own Nautical Publications Register within the IHO Feature Data Dictionary Registry for new geo object-classes or information objects, which are used to encode information derived from Nautical Publications.

Conclusions and Recommended Actions

1. Add "Test Data" as a new work item to the Work Plan of SNPWG (see Annex B)

2. Confirm the implementation of a Nautical Publications Register within the IHO Feature Data Dictionary Registry.

Justification and Impacts

1. Add "Test Data" as a new work item to the Work Plan of SNPWG.

As mentioned above it is not sufficient to develop the data structure and the display requirements for NPs used in an ECDIS. The results of the WG have to be tested and therefore we need test data-sets and test-beds. Partners from industry and from the hydrographic community have to be found to perform these tests.

2. Nautical Publications Register

The SNPWG wants to set up its own Nautical Publication Register because it has a lot advantages:

- SNPWG will be the control body for the register (they are the experts for NPs)
- The work of the SNPWG could be implemented faster (it doesn't have to be approved by TSMAD).
- Its easier to make changes
- TSMAD doesn't have to deal with NPs

The SNPWG is of the opinion that you still have the same flexibility as if all the information is in one register. If a product (like ENC) has to use object classes and attributes from the "Hydro Register" and from the "Nautical Publications Register" this is described in the product specification.

Action Required of CHRIS

The CHRIS is invited to:

a. endorse the changes to the Work Plan of SNPWG.

b. confirm the implementation of a Nautical Publications Register

c. endorse the SNPWG-Report.

Annex A

Membership of SNPWG

Country	Last Name	First Name	Email
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Annex B

SNPWG Proposed Work Plan

SNPWG Tasks

A. Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3)

B. Define the content requirements of NP data intended for use in ECDIS (NP3)

C. Test data

D. Develop basic display rules for NP data intended for use in ECDIS (NP3)

E. Draft guidance documents

F. Revise technical resolutions as required

G. Liaise with other CHRIS WG's and other IHO and international bodies

Task	Work Item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-Completed	Contact Person	Affected Pubs/Standard	Remarks
A1	Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3)	H	Decision for a Data Structure (June 2004)	2003	2004	C	Chair/Sec SNPWG		NP3 Data should be encoded as S-57 objects which were modeled in UML where required.
A2	Look at existing systems on the market	H	June 2004	2003	2004	C	Chair/Sec SNPWG		
A3	Evaluate the pros and cons	H	June 2004	2003	2004	C	Chair/Sec SNPWG		

B1	Examine the content of traditional NPs	M	Content Specs (June 2004)	2004	2006	O	Chair/Sec SNPWG		Which NPs and NP data type should be included in NP3
B2	Proposal discovery and distribution. (meta)	M	Open- No deadline	2004	-	O	Chair/Sec SNPWG		Post discovery information on website
B3	Model the data where required.	H	2006	2004	2007	O	Chair/Sec SNPWG	S-100	To be included in S-100 registry
B4	Review draft content specifications	M	2006	2004	2007	O	Chair/Sec SNPWG	S-100	
B5	Propose amendments for “Hydro register” to TSMAD	H	2006	2005	Feb, 2007	P	Chair/Sec SNPWG	S-100	To be included in S-100 registry
B6	Create the “NP Register”	H	2006	2006	2007	P	Chair/Sec SNPWG	S-100	
B7	Populate the “NP Register”	H	2007	2006	Open	P	Chair/Sec SNPWG	S-100	
B8	Draft Product Specification	M	2007	2007	2008	P	Chair/Sec SNPWG	S-10X	
C1	Produce test data set	M	2007	2007	2008	P	Chair/Sec SNPWG		
C2	Set up a test bed	M	2007	2008	2008	P	Chair/Sec SNPWG		
D1	Develop basic display rules for NP data intended for use in ECDIS (NP3)	M	2007	2007	2008	P	Chair/Sec SNPWG	S52	Close Co-operation with CSMWG required.
E1	Data Capture Guidance	M	2007	2008	2009	P	Chair/Sec SNPWG		Document like Use of the Object Catalog for NPs

F1	Revise technical resolutions	L	2008	2008	2008	P	Chair/Sec SNPWG	M3	
G1	Liaise with the CSMWG for the development of the display rules	M	2007	2005	Open	O	Chair/Sec SNPWG		
G2	Liaise with the TSMADWG	M	2007	2004	Open	O	Chair/Sec SNPWG		
G3	Liaise with other relevant WGs	M	2007	2004	Open	O	Chair/Sec SNPWG		