

**18th Standardization of Nautical Publications Working Group (SNPWG) Meeting
1 – 4 December 2014 – Cadiz, Spain**

Minutes of SNPWG18 Rev1

(including amendments adopted at SNPWG19 – NIPWG1, Monaco, 29 June – 3 July 2015)

Annex A: List of Action items

Annex B: Agenda

Annex C: List of Attendees

Annex D: Updated SNPWG Work Plan

1. Opening and administrative arrangements

1.1 Opening remarks

Jens SCHRÖDER-FÜRSTENBERG opened SNPWG18 by welcoming new and returning members. Jens followed by stressing the importance of our working group as it pertains to navigation safety by developing a common structure for publications information as a complement to ECDIS and other electronic devices.

Alejandro HERRERO PITA also welcomed the members on behalf of the Instituto Hidrografico De La Marina (IHM) and discussed meeting logistics. Tom LOEPER was acting as secretary.

1.2 Opening address on behalf of IHM

Captain Jose Ramon FERNANDEZ DE MESA TEMBOURY also welcomed the members of SNPWG and spoke on behalf of the Spanish Hydrographic Office that the work taking place in SNPWG will positively impact the world-wide maritime community making it safer and easier for mariners.

2. Adoption of Agenda

SNPWG agreed and adopted the Agenda with slight modifications as circulated.

3. Adoption SNPWG 17 Minutes

The Final Minutes of SNPWG 17 were approved as circulated.

3.1 Corrections

No corrections were proposed for the Minutes of SNPWG 17.

3.2 Review of Action Items from SNPWG 17

Planned tasks for this Reporting Period						
Action Item	Actor	Task Description	Start Date	Target End Date	Percent Complete	Task Status
14/10	TP	Complete MPA Product Specification for circulation to HOs	04/2011		60	Ongoing
14/11	SNPWG	Circulate inside HOs and obtain comment				Depends on 14/10 progress
15/2	EM+JR	Forward to TSMAD for consideration to change date information by values and text			100	Incorporated into S-100 ver. 2

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

15/9	EM	Await the next joint TSMAD/DIPWG meeting in Feb 2015 and the outcome of DIPWG portrayal work. Eivind will liaise with TSMAD/DIPWG and report back to the SNPWG.					Postponed to SNPWG 19
15/11	TP+JR	Investigate the possibility of taking the MPA work completed to date and creating a web service as an interim solution.			40		Postponed until a stable dataset is available
16/1	JN/PA/OH	Give a presentation at SNPWG 17 outlining current developments along with giving a greater interpretation of their plans.					Overtaken by events
16/2	TP/EM/JR	Put an update of the MPA Product Specification on the IHO/SNPWG site.					Re-evaluate
16/9	DK, FL (PA/TBD)	Create the Navigational services (include navigational marks) NP1 Data sample and present it at SNPWG17 NP1.			20		Ongoing
16/14	TP	Create a word file concerning M-3 for the NP section to be placed on the Wiki for SNPWG updates.					Ongoing
17/1	KRISO (SO)	Populate the FCD with the Wiki contents and produce a new version of the MPA Feature Catalogue	04/2014	30.05.2014	completed		
17/2	Chairman	Develop the first draft of this Traceability Matrix for the SNPWG Product Specifications	04/2014	30.05.2014	completed		
17/3	SNPWG	Review the radio services submission and report back if there are any specific details that need to be added to make it more useful. Examples are, faxes, telexes, etc.	04/2014	30.06.2014	completed		
17/4	GE (JS-F)	SNPWG attributes need to specify the service provider if required (for Inmarsat, Iridium and Globalstar, etc.) so the user knows if it is data or voice.	04/2014	30.05.2014	completed		
17/5	FR (AR)	Check the frequencies in the current test data set. Review version of the dataset.	04/2014	12/2014	completed		
17/6	SNPWG	Review the Traffic Management submission and report back if there are any	04/2014	31.08.2014	completed		

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		specific details that need to be added to make it more comprehensive. All examples must be for Jussland only and they should not be country specific				
17/7	US (MK)	NGA will present results of 17/6 of the review at SNPWG18.	04/2014	12/2014	completed	
17/8	Jeppesen (EM)	Draft a paper of new definitions to DQWG that encompass Data Quality Requirements for N-PUBS.	04/2014	DQWG9	completed	
17/9	Jeppesen (RM)	Update the MPA application schema by incorporating context features.	04/2014	12/2014	completed	
17/10	SNPWG	Review the physical environment submission and report back if there are any specific details that need to be added to make it more useful.	04/2014	31.08.2014	completed	
17/11	UK, VE (RD/LV)	Prepare the draft of land features to extend the test dataset	04/2014	12/2014	Nearly completed	
17/12	Jeppesen (RM)	Prepare a version of the MPA application schema which reflects the latest development regarding information area and supplementary information by the S-101 DCEG	04/2014	31.05.2014	completed	
17/13	GE, IHB (JS-F/TP)	Prepare a separate, virtual server that is not on any IHB servers. It would be part of the IHB infrastructure and link to the IHB site. Tony will discuss this development with the Directing Committee.	04/2014	08/2014	completed	
17/14	SE (NH)	Investigate general steps for the preparation of a test plan and taking the S-101 test plan into account.	04/2014	12/2014	completed	
17/15	IHB (TP)	Revise the latest MPA Product Specification draft document to reflect the latest metadata developments in S-100 Ver. 2.	04/2014	12/2014	ongoing	
17/16	US (TL)	Draft a new section 4.1 for National and International lights in S-12			ongoing	
17/17	Jeppesen (EM)	Inform IALA about the SNPWG concept of having a persistent, unique identifier for items in the List of			completed	

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		Lights.				
17/18	GE (JS-F)	Incorporate the drafted additional light information attributes into the SNPWG Wiki.	04/2014	31.05.2014	completed	
17/19	Chairman	Draft an update to the ToR reflecting the SNPWG'S responsibility on different IHO resolutions and specifications and submit it to HSSC for endorsement.	04/2014	08/2014	completed	

4. SNPWG status of work overview

The Chairman gave a short presentation detailing the main objectives and the current status of the work to date. The presentation was a brief introduction for new members and a refresher for longer-term members.

5. HSSC Reports

5.1 HSSC 6 Report

The Chairman gave a brief synopsis of what occurred at HSSC 6, the focus was on reducing the number of working groups. TSMAD and DIPWG should be reorganizing into the ENC Maintenance Working Group and S-100 Working Groups. The motion to combine SNPWG and CSPCWG was dismissed and no longer an issue. The focus of SNPWG will change slightly and the name will be changed to Nautical Information Provision WG (NIPWG) with a new TOR's and an amended work plan. The Tides and Water Level WG and the Surface Currents WG will be combined within two years. The SNPWG idea to initiate closer cooperation with IALA to find a common Unique Identifier for light information was rejected. HSSC considered this initiative was premature.

5.2 DQWG 9 Report

Eivind MONG presented a short summary about the data quality meeting which occurred in November of 2014. The data quality model was validated. The model output for bathymetric data will be in accordance with a decision tree and graded as unassessed, low, fair or good (category titles will be finalized later). The meeting considered a database of past shipping incidents and accidents caused by data quality but the ownership of this database belongs to e-Navigation International. The group also discussed how to portray data quality. The original thought was to use a progressive series of meshes with no mesh for accurate depths moving to progressively thicker meshes for less accurate values. The group is working on devising an IHO standard text on data quality.

6.0 World Port Index (WPI)

6.1 Presentation of the WPI

Mike KUSHLA did a presentation on the planned improvements of the World Port Index using SNPWG Features and Attributes in a database-centric product.

The World Port Index provides the location, characteristics, known facilities, and available services of a great many ports and shipping facilities and oil terminals throughout the world.

The WPI can currently be downloaded from the NGA Maritime Safety web site in the following formats:

1. Adobe PDF document file.
2. Windows executable files (automatically installs Adobe PDF document file).
3. Microsoft Access data base.
4. Shape file.

Thoughts on how to improve the WPI include:

1. Information in a data base structure.
2. Output options in XML, HTML, PDF and Shapefiles.
3. More robust search options.
4. Visual display of information.
5. Better user experience

The idea to improve the WPI is to use the SNPWG Feature Dictionary with its associated attributes and definitions such as:

- Category of Marine Services (Vessel Traffic Service, Port Service, Ship Reporting Service, Broadcast Service)
- Port parameters (Maximum vessel draft and beam. Maximum/minimum vessel loa, displacement tons, dwt, gt, and nt.)
- Pilotage
- Pilot Qualification
- Remote Pilotage
- Category of Harbor Facility
- Mooring Facilities
- Berthing Facilities (Total berths, visitors berths, berthing lengths)
- Overhead Limits
- Anchoring (holding quality)
- Communications (Radio channels, telephone, facsimile, telex, telegraph, internet)
- Category of Supplies

Tony PHARAOH suggested that information from AVANTI also be included if possible. AVANTI stands for Access to Validated NauTical Information. The end result is to have expanded information available with more robust search options, better visual display of information, an improved data input process and an improved user experience.

7. ProdSpec MPA (S-122)

7.1 Status of Work

Tony gave a brief summary of the status of the Marine Protected Area (MPA) Product Specification. The MPA Prod Spec has changed four times since SNPWG 17. The last update of the application schema was in November 2014. Raphael MALYANKAR broke the original single UML diagram into several smaller diagrams to make it easier to read and understand. There were no substantial changes to the schema. Tony also recommended that we include the diagram on Context Features in the Prod Spec. Once we add a timestamp, the version will be established at 1.0. Any alterations to the document would change the version number. SNPWG can also use the basis of the MPA Prod Spec for other product specifications. The N-Pub information will be independent of the chart information.

7.1.1 Status DCEG

The first draft of the Encoding Guide (DCEG) was presented to the group for consideration. The basis for the draft document was taken directly from the S-101 DCEG and edited to fit SNPWG needs. For context features, a reference to the S-101 DCEG should be made. A duplication of those features is not preferable and would cause more confusion than benefits.

The intended group review will be done on a section by section basis because of the complexity of the document.

Action Item 18/1 – Jens will populate the revised version which reflects the latest discussion by the end of January 2015 and initiate the first group review.

7.2 Provision of data sets which supports the standalone as well as overlay product

The group decided to establish a set of context features which could easily be used by all N-Pub product specifications and subsets which may be useful for specific N-Pub prod specs. It is intended to limit the workload and to improve the consistency of all N-Pub products.

Action Item 18/2 – The group will review the current context feature set and propose extensions if needed by the end of March 2015. A SNPWG letter will be sent in January to all members tasking them to complete the review.

7.3 Model harmonisation S-101 and S-122 - How to establish a dialog with the S-101 DCEG group

After discussions with other working groups, it is difficult to gauge exactly how N-Pub data will be harmonised with other information on an ECDIS. There will be a meeting of the relevant WG in February 2015 and it is hoped that SNPWG will get more feedback after that to help resolve the issue.

9. ProdSpec Radio Services (S-123)

9.1 Presentation of content

Alain ROUAULT opened the session with a short discussion of the Radio Services test dataset. S-123 Radio Services has three main parts, Maritime Radio Stations, Maritime Safety Information and Global Maritime Distress and Safety System (GMDSS).

9.2 Discussion of the draft paper

The initial mapping was very difficult and it is now close to completion. Many problems were resolved but there are others awaiting solutions before the draft paper can be adopted as final product. For phone and fax numbers, it was suggested and adopted to remove all the (0) and (9) in the phone numbers to make it consistent throughout all data models.

Action Item 18/3 – Alain will continue with the development of the Radio Services ProdSpec and the group will continue to review and forward comments.

10. ProdSpec Traffic Management (S-127)

10.1 Presentation of content

Mike opened the discussion with a presentation of a schematic diagram for Traffic Management Data.

The diagram was presented with 5 major headings. They were Ship Reporting Systems, Interactive Traffic Control, Passive Traffic Control, Traffic Control Signals and Regulatory Reporting Requirements. The Traffic Information heading was deleted.

10.2 Discussion of the draft paper

Again, for phone and fax numbers, it was suggested and adopted to remove all the (0) and (9) in the phone numbers to make it consistent throughout all data models. The chairman recommended that AMVER content needs to be considered in more detail by the responsible nation since other nations will copy that into their own publications. Other items were how to handle time zones, should the data sample use local or UTC? If

the time zone is stated, it is easier to code. It would also help to use consistent geographic positions to make it easier to code. We should state the position in degrees, minutes, seconds for example. Both of these items should be addressed by the harmonisation group so we have consistency across all products. The meeting addressed the extension of content where appropriate.

Action Item 18/4 – Mike will continue with the development of the Traffic Management ProdSpec and the group will continue to review and forward comments.

11. S-100 Topics

Additional GML Geometries (how to proceed)

The workaround for offset curve is cumbersome and may not be practical. SNPWG has to have use cases to indicate that the offset curve is actually needed. If SNPWG cannot come up with actual use cases, there is no reason to generate the geometry. Currently, there are workarounds to our geometry requests which are assumed to be adequate for our purposes. There is no need to create new ones at present.

19. Harmonisation of the test data sample provision

After discussions, it was agreed that there needs to be a set of guidelines on how to present information. Examples include:

- 1) How can we be certain that everything is coded into the system consistently?
- 2) Does the information only need to be coded into each product specification uniformly or should it happen across all the products?
- 3) Should a geographic position or time be coded the same across Radio Services, Traffic Management and Physical Environment or doesn't it matter?

Action Item 18/5 – Alain, Mike and Richard will begin to create an in-house SNPWG style for presenting and coding test data sets. The first review will be made during the next meeting in June 2015.

12. Universal Meta Data and Quality Meta Data set for NPUB ProdSpec

Eivind has recommended that SNPWG take the data quality work completed for ENC's and adapt it for use in N-Pubs. The scope or level of detail will be different for N-Pubs compared to ENC's. SNPWG work will be less bathymetric than ENC's and more descriptive in keeping with Sailing Directions. How to portray the data is another question. If one source has a higher quality of data than another, which one is portrayed? Does one level override the other? Are they both portrayed depending on the feature? What happens if there are three or more and how is this communicated to the mariner? The submission paper was accepted by SNPWG.

Action Item 18/6 – Eivind will forward the proposed definition on Category of Temporal Variation Value 4 to DQWG for further consideration and submission to TSMAD.

13. Interaction between different products (based on S-100)

Discussion of context features for N-Pub ProdSpec (production of test data sample)

The group discussed the current situation of how information is displayed on an ECDIS. How the information is portrayed is not something for SNPWG to decide. The group believes the mariner should have the freedom/option to select what is displayed..

14. MONALISA Project (follow up)

14.1 Presentation of the ongoing work

A brief progress report on the project was presented by Eivind. Spatial queries (pick report) will need to merge results during route planning to give the navigator better situational awareness, even if N-Pubs information is turned off and not visible. Route monitoring mode will likely have N-Pubs as a temporarily visible overlay (mariner control on/off), and no N-Pubs will be in base display. ECDIS should give an indication if N-Pubs information changes (revisions received) during voyage. ECDIS should let mariner step through updates, and draw specific attention to changes that may impact the route. Visualization when multiple N-Pub layers are visible should be decided by the user, i.e. no layer has higher priority than another, so the user decides what is over what. Some features may have over radar flag, as well as an AIS flag.

14.2 Discussion of the paper

A number of new feature classes were introduced including hydrocarbon extraction area, wrecks, fishery zones and marine farm/culture areas. The question for SNPWG is, do we as a group need this further delineation or do we have the capacity to address this in the current SNPWG model? SNPWG has not received any requests to define these additional areas.

SNPWG takes note of the initiative and requests a further update at the next meeting.

26. e-MIO project of the EAHC

26.1 Presentation of the ongoing work

The e-MIO (Marine Information Overlay) progress briefing was presented by the chairman. Discussions took place on development based environment MIO's for situations like oil spills and other environmental matters. Republic of Korea (ROK) intends to install e-navigation systems, which is known as SMART navigation, on not only commercial ships but also fishing boats and coastal vessels. With SMART navigation, ROK plans to provide high-speed mobile communications systems using LTE-M (Maritime) technology, which will reach up to 100 km from the coast. LTE is a standard for wireless data communications technology.

26.2 Discussion of the paper

SNPWG takes note of the initiative and will provide recommendations that may be helpful in developing the system in the future.

15. ProdSpec Physical Environment (S-126)

15.1 Presentation of content

Richard opened the session with a discussion of the text rich format of the Physical Environment.

15.2 Discussion of the draft paper

The discussions focused on how much textual information do we need to display when presenting physical environment data. For example, if there is a sea mount depicted on the chart, do we need to go into a detailed discussion of the same feature in the N-Pub. How do we handle multiple sea mounts in one area? Do we need to point to other outside documents such as the *Mariner's Handbook*, *Dutton's* or *Bowditch*? Is this too much or too little information?

What about the geometry of the area? Sometimes the areas have very broad or fuzzy limits so how would those limits be accounted for? How will this be presented? It will be difficult to go from a point at the entrance of a harbour and the next click to go to a very large area like an ocean basin. What about relatively rare occurrences like abnormal waves or rollers? Sometimes they are seasonal or very condition specific due to an

unusual weather event. How do we account for Typhoon, Cyclone and Hurricane seasons? It would be best to initially define the season and after that, you can freely use the term Hurricane Season. So you would have to define it as the period from 1 June to 30 November, not summer and fall.

Action Item 18/7 – Richard will continue with the development of the Physical Environment ProdSpec and the group will continue to review and forward comments. Note that input is needed on terrestrial items.

There was a side discussion about the possibilities to build associations between different S-100 based product specifications.

Action Item 18/8 – CARIS will develop a draft proposal for submission to the new S-100 WG on introducing the possibilities to build associations between S-100 based product specifications by June 2015.

16. Wiki Work

16.1 Open and reviewed items

The chairman began the discussion by saying the Wiki was transferred from a private web space to an official IHO server. The chairman also recommended that any available test data (like Radio Services or Physical Environment) be made available for public comment with a link from the SNPWG site. There were a few recent changes and additions to the list. Specifically the Association Classes have been added to the collection of the Feature Concept Dictionary.

Action Item 18/9 – Jens and Raphael need to develop a practical use case to illustrate the concept of Association Class by June 2015.

16.2 Additional light information

Alain started the discussion by talking about how SHOM plans to merge its two List of Lights databases along with some examples of the difficulties they are encountering. Alain recommended that the S-57 model be extended slightly. The main goal is to automate the process as much as possible and to reduce the risk of having different structure descriptions in plain text.

Action Item 18/10 – SHOM will check the content of their List of Lights and provide proposals for enumeration candidates by June 2015. CARIS will kindly assist.

17. The production of NP2 style publications and the carriage requirement regime

Tom presented a paper concerning the use of digital documents, specifically PDF's, to fulfill carriage requirements for N-Pubs. There are a number of countries already allowing NP2 publications. This is a Flag State Approval issue along with agreement with the individual nations. All members agreed that this is not an issue and there is no need to mandate a specific format for carriage – it is up to the issuing country.

18. Test cases for testing the Radio Services/MPA ProdSpecs (SNPWG)

18.1 Results of the investigation of general steps for the preparation of a test plan

A paper from Sweden was presented to the group that was based on the S-100 testbed model draft. It was decided that further actions were not needed at this stage since the S-100 Ed 2 is not yet approved. SNPWG is also waiting on a paper from CARIS on interactions between different ProdSpec layers. (See Action Item 18/8)

18.2 Content of Products

A paper presented on behalf of Sweden provides general items which need to be outlined and determined when preparing the test plan. The S-100 test plan has been taken into account.

TSMAD is developing a test strategy and they have made an S-100 Test Framework document (draft 0.2). The following items are identified in S-100 test framework:

- Registry
- Build catalogues
- Produce data
- Validation
- Distribution
- Ingest and display data on ECDIS

Those items are divided into nine test phases to facilitate the work, with regard to the number of subsystems and complexity.

The phases are:

Phase 1: **Feature and portrayal catalog generation.** This phase concentrates on the feature and portrayal catalogue builders and the generation of catalogues to support the S-101 product specification and S-10X overlays.

Phase 2: **Simple Production Tool.** This phase deals with creating S-101 ENCs by using the S-57 convertor. In addition, it will also look to create an S-100 simple overlay file for use in testing.

Phase 3: **Simple Viewer.** This phase creates a simple viewer that will ingest feature and portrayal catalogues, along with an S-101 dataset to validate if the dataset displays according to what is defined in the portrayal catalogue. At this phase S-101 updates will not be tested.

Phase 4: **Preliminary Production Tool.** This phase deals with creating a tool that can edit and produce S-101 data and updates. In addition, there may be a secondary tool that will have the ability to produce S-10X data that is meant to be integrated within an S-101 dataset.

Phase 5: **Preliminary Data Validation and Distribution.** This phase will put in place draft data validation rules and test data packaging and distribution models.

Phase 6: **Shore-Based ECDIS.** This phase deals with the creation and testing of several shore based ECDIS. This version of the S-100 ECDIS is not expected to have the full capabilities of an ECDIS that will undergo type approval, but should be able to handle different types of S-100 based data, perform basic navigation functions – such as set the safety contour and have the pick report functionality implemented.

Phase 7 - 9: **Full Production Tool, Data Validation, Distribution, and Full ECDIS.** These final three phases deal with the full system testing and implementation of S-100 and S-101. The following section in this document is structured to reflect each phase and document requirements, processes and the systems model. Individual test cases and test datasets are stored separately from this document.”

SNPWG can save time and effort by using the S-100 test framework. However the S-100 test framework can only be a guide for SNPWG. We have to make our own test plan which has to be specified and adapted to the SNPWG nautical publications.

Action Item 18/11 – SNPWG will revisit the paper in June of 2015.

18.3 Progress of sea-trial test-bed on e-Nav service (MSI / Ship Report)

Eivind presented a paper from KRISO on the October sea-trial of MSI service on a car ferry. The results of the sea trial were inconclusive due to a satellite transmission failure.

Cooperation between KRISO and the S-124 correspondence group was initiated to avoid duplication of work.

21 ToR review (reflecting HSSC6 outcome)

Mike conducted a side-by-side comparison of the current SNPWG ToR with the new NIPWG ToR. Most of the terms and objectives are identical. If there are any changes proposed by the WG, the changes will need to be sent forward to HSSC for endorsement. The group is working on a proposal to better define Nautical Information. The only other concerns were with **Objective a** (Alain) and **Objective d** (Richard) which will be addressed in June 2015.

23. Any other business

This was an item not on the meeting Agenda. Jorge SANCHEZ HERNANDEZ did a short demonstration of the CARIS conversion tool with some test data. The conversion was from S-57 to S-101 ENC. The software should be available in 2015.

NGA will assist Denmark in preparing the test data sample for Navigational Services (S-125).

24. Date and Location of the next meeting

The location and date of the next Working Group meeting will be in Monaco from 15 June to 19 June.

Annex A: List of Action Items

Planned tasks for this Reporting Period						
Action Item	Actor	Task Description	Start Date	Target End Date	Percent Complete	Task Status
14/10	TP	Complete MPA Product Specification for circulation to HOs	04/2011		60	Ongoing
14/11	SNPWG	Circulate inside HOs and obtain comment				Depends on 14/10 progress
15/9	EM	Await the next joint TSMAD/DIPWG meeting in Feb 2015 and the outcome of DIPWG portrayal work. Eivind will liaise with TSMAD/DIPWG and report back to the SNPWG.				Postponed to SNPWG 19
15/11	TP+JR	Investigate the possibility of taking the MPA work completed to date and creating a web service as an interim solution.			40	Postponed until a stable dataset is available
16/2	IHB/Jepp/CARIS	Put an update of the MPA Product Specification on the IHO/SNPWG site.				Re-evaluate
16/9	DK, FI, US (PA/TBN/MK)	Create the Navigational services (include navigational marks) NP1 Data sample and present it at SNPWG17 NP1.			20	Ongoing
16/14	TP	Create a word file concerning M-3 for the NP section to be placed on the Wiki for SNPWG updates.				Ongoing
17/11	UK, VE (RD/LV)	Prepare the draft of land features to extend the test dataset	04/2014	12/2014	Nearly completed	
18/1	JS-F	Populate the revised version of the S-122 DCEG which reflects the latest discussion by the end of January 2015 and initiate the first group review.	12/14	01/2015		
18/2	JS-F/SNPWG	Review the current context feature set and propose extensions if needed by the end of March 2015. A SNPWG letter will be sent in January to all members tasking them to complete the review.	01/15	06/15		

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18/3	AR/ SNPWG	Continue with the development of the Radio Services ProdSpec and the group will continue to review and forward comments.	12/2014	06/2015		
18/4	MK/ SNPWG	Continue with the development of the Traffic Management ProdSpec and the group will continue to review and forward comments.	12/2014	06/2015		
18/5	AR, MK, RD	Begin to create an in-house SNPWG style for presenting and coding test data sets. The first review will be made during the next meeting in June 2015.				
18/6	EM	Forward the proposed definition on Category of Temporal Variation Value 4 to DQWG for further consideration and submission to TSMAD.	12/2014	02/2015		
18/7	RD/ SNPWG	Continue with the development of the Physical Environment ProdSpec and the group will continue to review and forward comments.	12/2014	06/2015		
18/8	CARIS	Develop a draft proposal for submission to the new S-100 WG on introducing the possibilities to build associations between S-100 based product specifications by June 2015.	12/2014	06/2015		
18/9	JS-F/RM	Develop a practical use case to illustrate the concept of Association Class by June 2015.	12/2014	06/2015		
18/10	SHOM/ CARIS	Check the content of the FR LoL and provide proposals for enumeration candidates by June 2015.	12/2014	06/2015		
18/11	SNPWG	Revisit the test case paper 18-8.1	06/2015	06/2015		

Variance Details:

XXXXX

Corrective Actions:

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Annex B: Agenda

18th Meeting of the Standardization of Nautical Publications Working Group (SNPWG) 1 – 4 December, Hotel Monte Puerta Tierra, Cadiz, Spain

Agenda (as conducted)

No.	Agenda Item	Lead	Documents
	Monday		
1.	Opening and administrative arrangements	AP	
	Opening address on behalf of the Spanish Hydrographic Institute	MT	
2.	Adoption of Agenda	JS-F	18-2.1
3.	Minutes of SNPWG 17	TL	18-3
3.1	Amendments to the minutes		
3.2	Review of Action Items from SNPWG 17		
4.	SNPWG status of work (overview)	JS-F	18-4
5.	HSSC related reports		
5.1	HSSC 6 Report	JS-F	18-5.1
6	World Port Index		
6.1	Presentation on the planned improvements of the World Port Index using SNPWG Features and Attributes in a data base-centric product.	MK	18-6.1
7	MPA (S-122) ProdSpec		
7.1	Status of work	TP	18-7.1
7.1.1	Status DCEG	JS-F	18-7.1.1
7.2	Provision of data sets which supports the standalone as well as overlay product	JS-F	
7.3	Model harmonisation S-101 and S-122 how to establish a dialog with S-101 DCEG group	JS-F	
7.4	Discussion on how to proceed	TP	

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	Tuesday		
5.	HSSC related reports (cont.)		
5.2	DQWG 9 Report	EM	
9.	ProdSpec Radio Services (S-123)		
9.1	Presentation of content	AR	18-9.1 18-9.2
9.2	Discussion on the draft paper	JS-F	
10	ProdSpec Traffic Management (S-127)		
10.1	Presentation of content	MK	18-10.1 18-10.1 Annex A 18-10.1 Annex B 18-10.1 Annex C
10.2	Discussion on the draft paper	JS-F	
11	S-100 topics		
11.1	Additional GML Geometries (how to proceed)	EM	18-11
19	Harmonisation of the test data sample provision	JS-F	18-19
12	Universal Meta Data and Quality Meta Data set for NPUB ProdSpec	EM	18-12.1 18-12.2
13	Interaction between different products (based on S-100)		
13.2	Discussion of context features for NPUB ProdSpec (production of test data sample)	EM; JS-F	18-13.2

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	Wednesday		
14	MONALISA Project (follow up)	EM	
14.1	Presentation of the ongoing work	EM	
14.2	Discussion of the paper	JS-F	
26	e-MIO project of the EAHC	JS-F	
26.1	Presentation of the ongoing work	JS-F	
26.2	Discussion of the paper	JS-F	
15	ProdSpec Physical Environment (S-126)		
15.1	Presentation of content	RD	18-15 18-15 Annex A
15.2	Discussion on the draft paper	JS-F	
25	Visit of the Spanish Hydrographic Institute	AP	
16	Wiki work	JS-F	
16.1	Open and reviewed items	JS-F	18-16
16.2	Additional light information	AR; JS-F	18-16.2
17	The production of NP2 style publication and the carriage requirement regime	TL	18-17

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	Thursday		
18	Test cases for testing the Radio Services/MPA ProdSpecs (SNPWG)		
18.1	Results of the investigation of general steps for the preparation of a test plan	JS-F	18-18.1
18.2	Content of Products	EM	18-18.2
18.3	Progress of sea-trial test-bed on e-Nav service (MSI / Ship Report)	EM	18-18.3
21	ToR review (reflecting HSSC6 outcome)	MK; JS-F	18-21.1 18-21.1 Annex
22	Work plan for the SNPWG (reflecting HSSC6 outcome)	JS-F	18-22
23	Any other business (e.g. Review of draft minutes)	JS-F	
24	Date and place of next meeting	JS-F	

MT	Captain Jose Ramon Fernandez de Mesa Temboury
AP	Alejandro Herrero Pita (ES)
AR	Alain Rouault (FR)
EM	Eivind Mong (Jeppesen Marine)
JH	Jorge SANCHEZ HERNANDEZ (CARIS)
JS-F	Jens Schröder-Fürstenberg (GE)
MK	Mike Kushla (U.S.)
RD	Richard Dobson (UK)
TP	Tony Pharaoh (IHB)
TL	Thomas Loeper (U.S.)

Work sessions:

Monday - Thursday: AM and PM.

Session AM1	0900 – 1030
Session AM2	1045 – 1200
Session PM1	1330 – 1500
Session PM2	1515 – 1630

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Annex C: List of Attendees

STANDARDIZATION of NAUTICAL PUBLICATION WORKING GROUP (SNPWG)

[A Working Group of the Hydrographic Services and Standards Committee (HSSC)]
Cadiz, 1-4 December 2014

List of Confirmed Participants

IHO MS	Name	email
Denmark	Pelle Aagaard	petar@gst.dk
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USA (NGA)	Mike Kushla	Michael.S.Kushla@nga.mil
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Technical Experts		
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Jeppesen	Eivind Mong	Eivind.Mong@jeppesen.com
NOVACO	Yiorgos Palierakis	yiorgos.palierakis@novaco.co.uk

Annex D: Updated SNPWG Work Plan

SNPWG WORK PLAN 2014-15

SNPWG Tasks

A	Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
B	Define the content requirements of NP data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
C	Develop test data (IHO Task 2.6.2 refers)
D	Develop basic display rules for NP data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
E	Draft guidance documents (IHO Task 2.6.2 refers)
F	Maintain and extend IHO resolutions in M-3 relating to Nautical Publications as required (IHO Task 2.6.3 refers)
G	Liaise with other HSSC WG's and other IHO and international bodies (IHO Task 2.6.2 refers)
H	Develop, maintain and extend S-10n - Nautical Information Product Specification (IHO Task 2.6.2 refers)
I	Conduct the 2015 meeting of SNPWG (IHO Task 2.6.1 refers)

Work Item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-Planned O-Ongoing C-Completed S-Superseded	Contact Person	Related Pubs / Standard	Remarks
A.1	Investigate the interaction between MPA and ENC in ECDIS	M		2014	2014	S	Chair/Sec SNPWG	S-100	Responsibility of the S100WG
B.2	Model the data where required.	H		2004	Permanent	O	Chair/Sec SNPWG	S-100	To be included in NPUBS domain of the FCD Register
B.3	Review of objects and attributes	H	06/2015	2004	Permanent	O	Chair/Sec SNPWG	S-100	According to the tasks assigned by HSSC4

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B.4	Propose amendments to HYDRO domain of the FCD Register	H		2005	Permanent	O	Chair/Sec SNPWG	S-100	To be included in the FCD register
B.5	Propose amendments to AtoN domain of the FCD Register	H	06/2015	2014	2015	O	Chair/Sec SNPWG	S-125	To improve the current definitions and attribute values at the FCD register
B.6	Populate the NPUBS domain of the FCD Register	H		2006	Permanent	O	Chair/Sec SNPWG	S-100	Awaiting Registry improvements
C.1	Produce NP1 sample data sets								According to the tasks assigned by HSSC4. Collection of information to be modelled
C.1.1	For Radio Services	H		2012	2014	C	Chair/Sec SNPWG	S-123	
C.1.2	For Navigational services	H	06/2015	2012	2015	O	Chair/Sec SNPWG	S-125	
C.1.3	For Traffic management	H	06/2015	2012	2015	O	Chair/Sec SNPWG	S-127	Marine Protected Area Part was completed in 2012
C.1.4	For Physical environment	H	06/2015	2013	2015	O	Chair/Sec SNPWG	S-126	
C.2	Set up a test bed ECDIS	M		-	-	P	Chair/Sec SNPWG		
D.1	Develop basic display rules for NP data intended for use in ECDIS (NP3)	M		2008	2015*	O	Chair/Sec SNPWG	S-52	Close co-operation with DIPWG required *end date depends on DIPWG schedule
E.1	Draft Data Capture and Encoding Guides								Document for NPs similar to Use of the Object Catalogue

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E.1.1	For Marine Protected Areas	H	06/2015	2011	2015	O	Chair/Sec SNPWG	S-122	To be harmonised with S-101 DCEG; Depends on S-100 Edition2 endorsement
E.1.2	For Radio Services	M	06/2015	2015	2015	P	Chair/Sec SNPWG	S-123	Depends on modelling progress
E.3	Draft Product Specification								
E.3.1	For Radio Services	H	06/2015	2014	2016	O	Chair/Sec SNPWG	S-123	
E.3.2	For Navigational services	H	06/2015	-	-	P	Chair/Sec SNPWG	S-125	
E.3.3	For Traffic management	H	06/2015	2011	2016	O	Chair/Sec SNPWG	S-127	The start date is in-line with the MPA ProdSpec development
E.3.3.1	For Marine Protected Areas	H	06/2015	2011	2016	O	Chair/Sec SNPWG	S-122	Depends on S-100 Edition2 endorsement
E.3.4	For Physical environment	H	06/2015	-	-	P	Chair/Sec SNPWG	S-126	
F.1	Maintain and extend resolutions in M-3 relating to Nautical Publications	M	06/2015	2012	Permanent	O	Chair/Sec SNPWG	M-3	A review is scheduled due to harmonisation of M3 information and potential ProdSpecs content
F.2	Maintain and extent S-12	M	06/2015	2014	Permanent	O	Chair/Sec SNPWG	S-12	Depends on the outcome of discussions with other concerned organisations
G.1	Liaise with the DIPWG for the development of the display rules	H		2005	Permanent	O	Chair/Sec SNPWG		
G.2	Liaise with the TSMAD	H		2004	Permanent	O	Chair/Sec SNPWG		
G.3	Liaise with other groups	H		2004	Permanent	O	Chair/Sec SNPWG		Including DPSWG, DQWG, TWLWG, MIO's, AML, ICE, Inland ECDIS

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G.4	Liaise with IALA e-Nav Committee	H		2013	Permanent	0	Chair/Sec SNPWG		As advised by HSSC4
H.1	Develop S-12n - Nautical Information Product Specification								Liaise with WWNWS-Sub committee
H.1.1	For Radio Services	H	06/2015	2012	2016	0	Chair/Sec SNPWG	S-123	
H.1.2	For Navigational services	H	06/2015	2013	2016	0	Chair/Sec SNPWG	S-125	
H.1.3	For Traffic management	H	06/2015	2013	2016	0	Chair/Sec SNPWG	S-127	
H.1.3.1	For Marine Protected Areas	H	06/2015	2011	2016	0	Chair/Sec SNPWG	S-122	Awaiting S-100 Edition2 endorsement and Feature Catalogue Builder
H1.4	For Physical environment	H	06/2015	2013	2016	0	Chair/Sec SNPWG	S-126	

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