

Hydrographic Services and Standards Committee

Report of Nautical Information Provision Working Group

Presented by Mr. Jens Schröder-Fürstenberg (NIPWG Chair)



Activities and achievements

- Membership
 - 21 Member States, 11 industry members
- Meetings
 - March 2018, Genova, Italy



Activities and achievements (cont.)

- Developments of NPUB Product Specs
- Contributions to e-Navigation
- Monitoring of IALA AtoN activities
- Developed M-3 amendments
- Prepared discussion paper on provision of products based on S-100
- Prepared discussion paper on architectural strategy of S-100 related products
- Prepared discussion paper on authority of DQWG „ Checklist for Product Specifications “



S-122 (Marine Protected Area) and S-123 (Radio Services)

- Product Specification delivery
 - Final version completed in August 2017
- Conduction of Impact Study
 - Duration 1 Dec 2017 to 31 January 2018
 - 104 addressees (incl. ICS, CIRM, IEC, Intertanko, BIMCO, CLIA)
 - response rate of about 10%
- Ready for HSSC10 endorsement and Member State approval

Ref.: Document HSSC10-5.3G



S-127 (Traffic Management) development

- Complementary information for S-101, S-102, S-122 and S-123
- To be renamed (Marine Traffic Management)
- Schedule
 - Application Schema initial draft End of Feb 2018
 - Preliminary Specification End of May 2018
 - Deadline IHO comments 45 days after delivery of prelim spec
 - First baseline version Further 45 days later
 - Deadline IHO comments and changes
based on S-101PT meeting 30 Sept 2018
 - Contract completed End of 2018
 - HSSC 11 approval May 2019



NPUB ProdSpecs Status

Product specs under development	MS Word Test data sample	Data model	Mapping Data sample vs. Data model	Application schema	Overall Working Status
S-125 Navigational Service	In progress	Drafted			On hold
S-126 Physical Environment	Stable	Drafted			On hold
S-127 Traffic Management	Stable	In progress	Drafted	In progress	In progress
S-128 Catalogue of Nautical Information	In progress	In progress		In progress	In progress

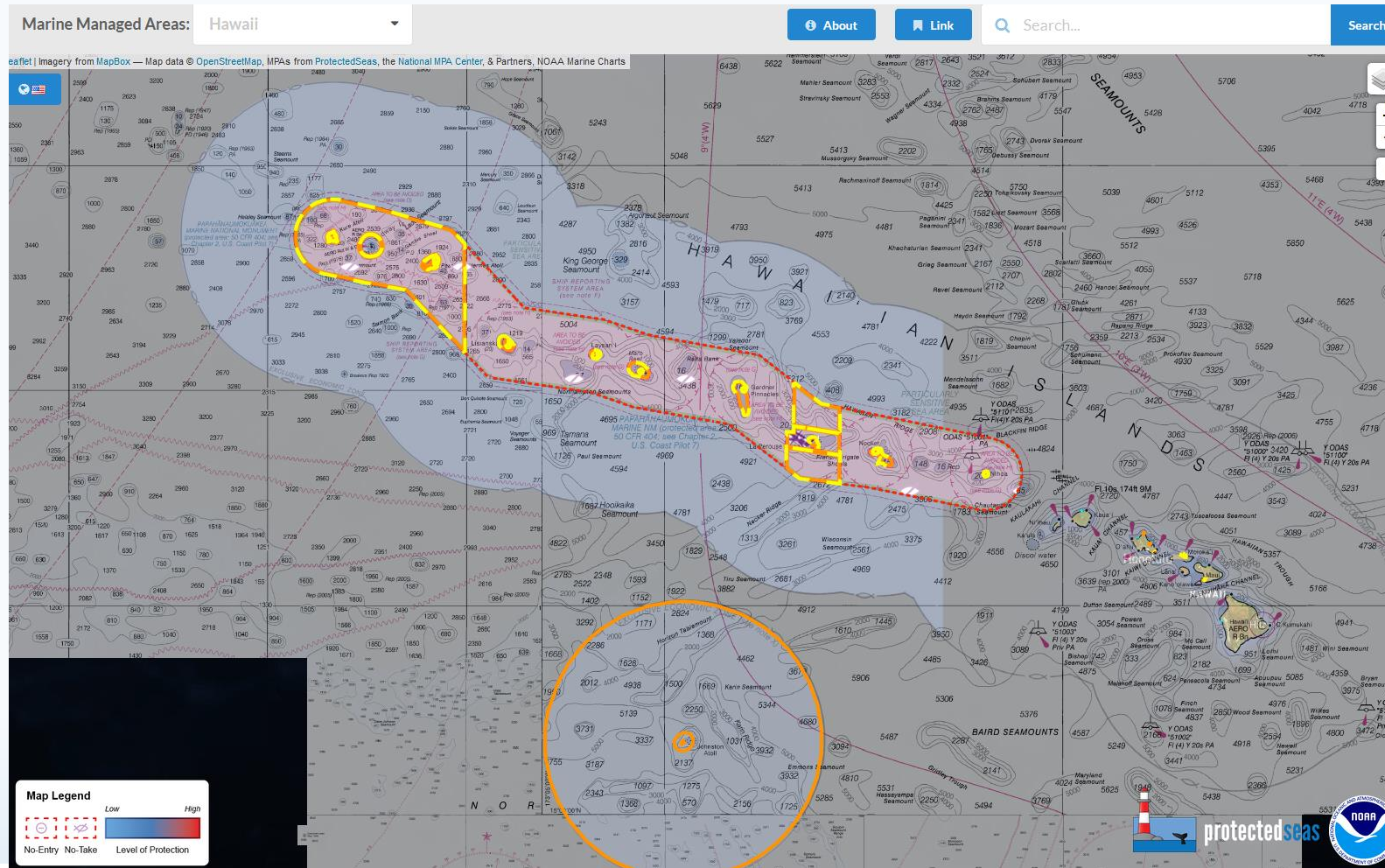


NPUB ProdSpecs Status (cont.)

- Hydro Register
 - S-122 and S-123 Feature Concept Dictionary included
 - Missing functionalities requires a parallel world for development
- NIPWG Wiki
 - Acts as the required parallel world
 - Additional repository of NIPWG Feature Concept Dictionary and other components
 - Discussion platform



Interoperability issues between S-122 (Marine Protected Area) and S-121 (Limits and Boundaries)



XML harmonisation of NtM Chart corrections

- Improve and anticipate information exchange between HOs
- Pool HOs IT competence
- XML functions
 - Chart related corrections
 - Fact related corrections
 - Easy to implement in production systems
- 2 day workshop in September 2018
 - IT personnel who are working on XML based chart corrections
- NIPWG wiki is ready as pre-discussion basis



Co-operation with IHMA, IALA

- IHMA (International Harbour Masters Association), No action during the reporting period
- IALA, S-201 Product specification
 - Harmonisation with S-101 and potentially S-125
 - Schema for Maritime Resource Name under development



Maintenance of IHO standards and other pubs

- M-3 Res 2/2007 separate NIPWG/HSSC WG Chairs paper
- M-3 Proposals
 - Reflection of current data provision
 - Impact on current S-100 Edition (provision of time information)
- Other standards and products
 - S-12 (List of Lights)
 - S-49 (Mariners' Routeing Guide)
- M-3 Resolution 4/1967 as amended, submarine cable (Spanish translation is still missing (2018-05-12))

Ref.: Document HSSC10-5.3B
Document HSSC10-5.3C



IHO/ HSSC and IMO e-Navigation

- Marine Services combined to a Maritime Service Portfolio
 - maritime service No.5 (Maritime Safety Information Service (MSI)) **WWNWS-CG**
 - maritime service No.11 (Nautical Chart Service) **NCWG, ENCWG**
 - maritime service No.12 (Nautical Publications Service) **NIPWG**
 - maritime service No.15 (Real-time hydrographic and environmental information Service) **TWCWG**
- Display of information received via communication equipment (postponed)
- Participation in IMO/IHO Harmonization Group on Data Modelling (HGDM)
 - Involved IHO WG/CG encouraged to use the template draft to submit Maritime Services to NIPWG for coordination Action item HSSC 9/46)
 - Due date for Maritime Services template provision is 16 October 2018
- Insufficient provision of supporting material and IHO contributions on the IHO website



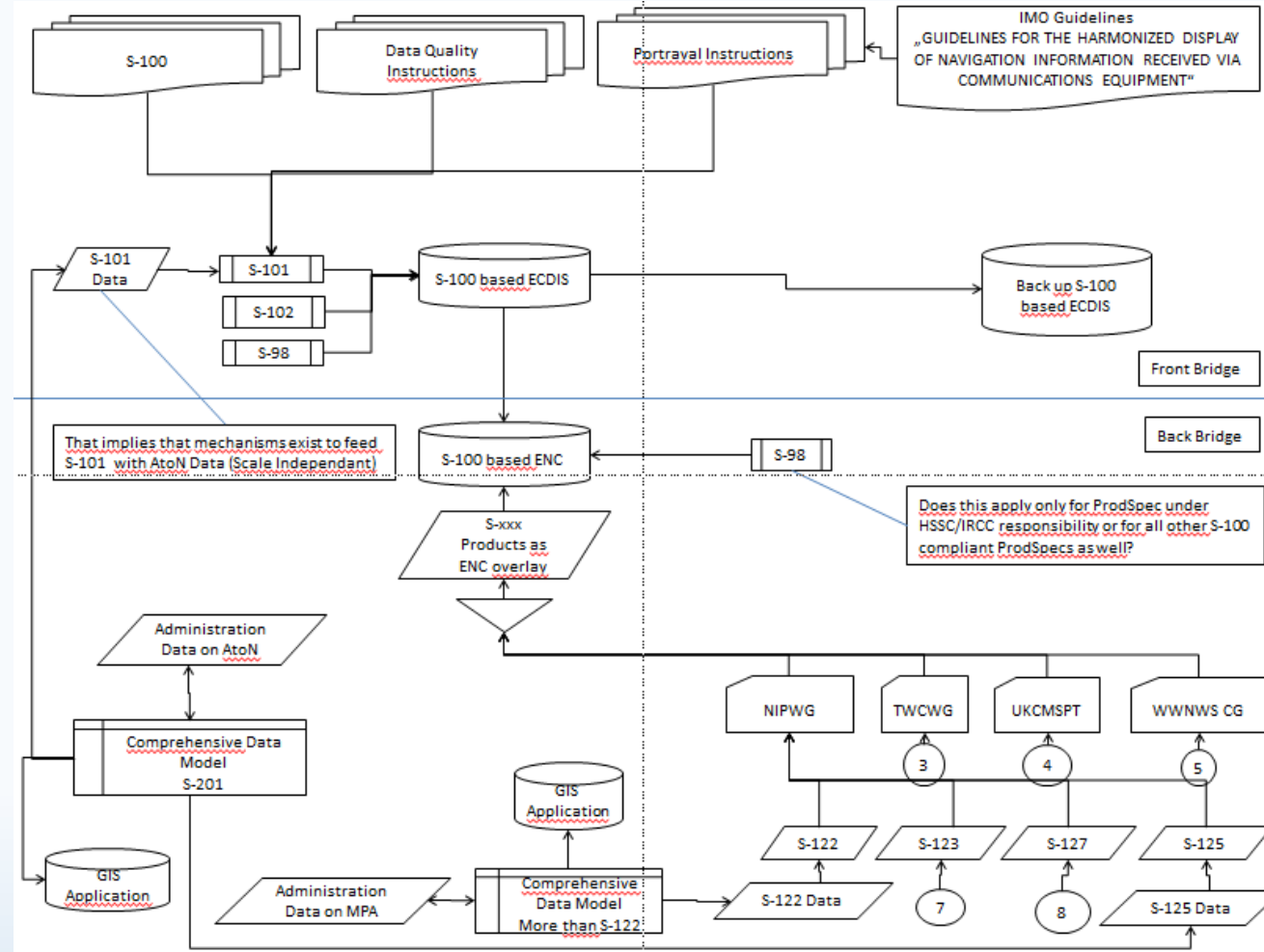
Allocate budget for outsourcing of work

Work item	Budget
Overarching architectural analysis	\$ 10-50k
Incremental GML update tests	\$ 10k
Experimental production tool and viewer <u>on the web</u>	\$ 40k
Prototyping system for vector S-100-based data	\$ 42k

Ref.: Document HSSC10-5.3D
Document HSSC10-5.3F



Overarching architectural analysis (example)



All I'm saying is that they didn't allow controversial discussions
and
look what happened to them.

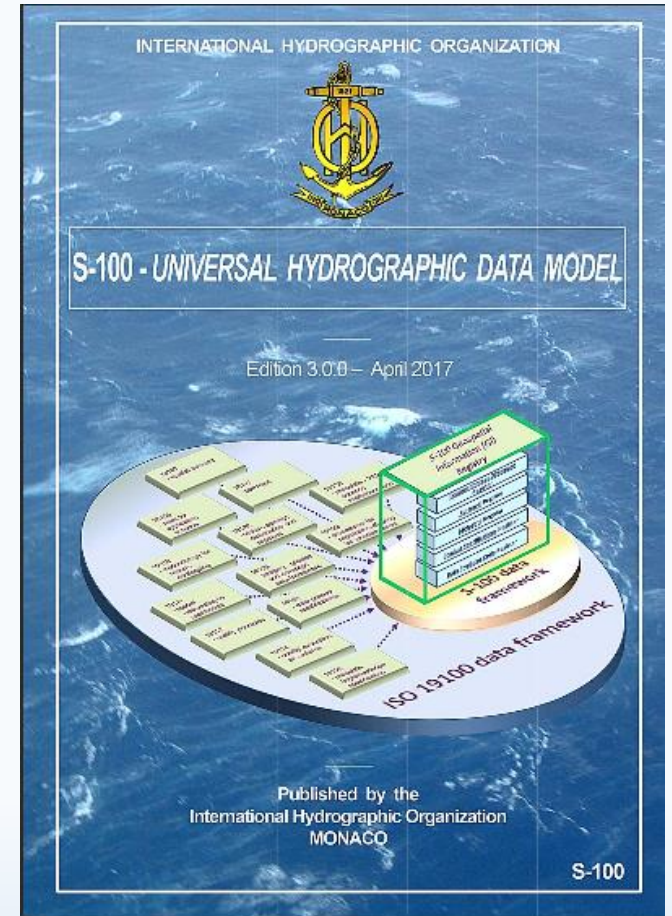


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S-100 discussion

- Purpose
- Universal
- Discussions of controversial positions
- Goal keeper
- Tests and assessments
- NIPWG positions



Status of DQWG DQ Checklist

- NIPWG appreciates the efforts made to assess DQ aspects in S-127
 - Results will be considered by contractors
- Principle question
 - Is the Data Quality Checklist for Product Specifications mandatory or are modifications per need possible?
- Pros and Cons
 - Simplify the product specification development and ensures a cross product specification harmony
 - Block data quality solutions which could be considered more appropriate for purpose

Ref.: Document HSSC10-5.3E



Provision of products based on S-100

- Common NIPWG, TWCWG, IEC TC80 paper
- Main topics
 - Availability of production tools
 - SOLAS V, Replacement of printed products
 - Applicability of WEND principles
 - Distribution of the data
 - Products outside the SOLAS market
 - Implementation on board
 - Test of products

Ref.: Document HSSC10-5.3D





TOP 2 action items priorities

- Develop S-12n - Nautical Information Product Specification (See work plan F8.1)
- Coordinate the IHO contribution to the definition and harmonization of IMO Maritime Services within IHO's remit (See work plan task G)
- Further work
 - KHOA: Development of the S-128 product specification
 - UNH: Assessment of data structure to support S-126 development
 - NIPWG: Continue to explore more data exchange via XML methods for NtM chart corrections



Action requested of HSSC10

- Note:
 - Chairman's report and
 - NIPWG's submissions HSSC10-05.3A, B, C, E, F, G
 - Joint NIPWG, TWCWG, IEC TC80 submission HSSC10-05.3D
- Endorse:
 - the completion of the S-122 and S-123 ProdSpecs development and results of the impact studies and their submission for Member State approval
- Suggest:
 - an appropriate presentation of e-Navigation information on the IHO website incl. the place of the IMO Maritime Service Template
 - the provision of Marine Services description based on IMO template from involved IHO WG/CGs
 - an appropriate repository where IHO ProdSpecs could be stored until the Registry is ready to host them
 - the provision of the Spanish translation of M-3 Res 4/1967 as amended



Action requested of HSSC10 (cont.)

- Suggest
 - Description of product specification use under HSSC remit
 - That the level of authority of Data Quality Checklist for Product Specifications is a recommendation, which can be adapted as necessary by WGs
 - Continuation of work on the issues addressed by paper
 - HSSC 10-05.3C (Revision of Resolution 2/2007)
- Initiate
 - Campaigning within the IHO to start the regular production and provision of products based on S-100
 - strategic discussion on efficient implementation of S-100 based products



Action requested of HSSC10 (cont.)

- Endorse
 - the proposed amendments of the referred M-3 resolutions
 - the renaming of S-127 to “Marine Traffic Management”
 - proceeding with the Top 2 priorities and additional work items
 - the conduction of a NIPWG XML workshop in Sept 2018
 - the collection of HSSC WGs marine services descriptions and the provision of a consolidated IHO submission to the HGDM (Action item HSSC 9/46)
 - the continuation of the Work Plan
 - the assignment of further development of the architecture paper to NIPWG

