**Nautical Information Provision Working Group (NIPWG)**

**1st Monthly dedicated S-128 Meeting**

**18th October 2023 – VTC, Worldwide**

Annex A: List of Action items

Annex B: Agenda

Annex D: List of Attendees

1. **Clarifying terms of reference for this monthly VTC**
* The monthly VTCs should be focused on the product specification development and reaching the goal of S-128 Edition 2.0 by end of Q1 2024 (NIPWG10: Action Item 27). The discussion on the use of S-128 and identification of the various stakeholders and how they all work together should be discussed separately to start with.
1. **S-128 Product Specification update.**
* NIPWG noted the presentation.
* Discussion held on slide 4, Use Case Scenario of Product Type.

SS: Question on Raster navigational chart being classified as PaperChart rather than ElectronicChart and S-102 product type as an ENC instead of an S-100 compliant product type.

SM: IC-ENC agrees with PRIMAR's comment on S-102 as S-100 compliant product.

EM: A raster chart can only be view by electronic means. This table will be discussed quiet extensively and may never going to fully agree so we need to work out what we can live with and see how if this could begin to match the updated ENDS diagram (currently being worked on to map back to the Maritime Services - NIPWG10 Action Item 17).

* EM: discussion on this table would take up the rest of this meeting, propose that all members are asked to review the table in this presentation and submit comments to a group that will review and discuss in a separate meeting dedicated to this topic.

**Action Item 1:** All members to review the Product Type Table (Slide 4) and submit comments to JM/JW. All. 27th Oct 2023.

**Action Item 2:** Dedicated 1.5hr VTC on Product Type Table (Slide 4). JM, SS, AA, RB, JSC, DS, SM, CJ, AC, HSV. Week Beginning 30th Oct 2023.

* SS: Question on the level of checking undertaken of all the features and attributes in S-128 and if they are available and registered in the IHO Registry. (NIPWG10: Action Item 32)
* HC: The main priority before this VTC has been to make S-128 Edition 1.1.0 and have not yet had time to do check the data model with registry.
* JSC: Denmark have already checked the current version against the registry and have supplied feedback to the S-128 PT. It takes a day to check everything and to create a report and we are ready to check the next version when it is available.
* EM/SM: This is a high priority piece of work due to the 60-day process from submission to the registry to being approved. Any modifications will take longer. We are very short on time.
* EM: Question: Has any work been done for how you would capture S-104, S-111, S-124, S-412 type services?

HC: No work has been done on this yet.

EM: The next version should have this functionality.

1. **Review of S-128 development timeline.**
* Timeline of S-128 development Slide 13 within NIPWG10: [S-128 Test Bed Update](https://iho.int/uploads/user/Services%20and%20Standards/NIPWG/NIPWG10/NIPWG10_2023_11.5.1A_EN_S-128_Test_Bed_Update.pdf)
* Draft version of S-128 Edition 1.1.0 will be shared by 20th October.
* 3-week review period of draft edition 1.1.0, Feedback deadline 10th November. All feedback to be submitted to Elena (elena\_armanino@marina.difesa.it) using the feedback form.
* TM: Question on expecting OEM’s to have trialed using the catalogues within the feedback period and concern that it’s a small period of gather this feedback from OEM’s and if not then the feedback will theoretically and not based on real system use.
* EM: This lack of testing is the consequence of cutting the deliverable date of Phase 1 Products Specifications by 1 year. It is not ideal, however for 1.1.0 this all the time available due to the tight timeline, until 1.2.0 is ready.
* TM: Concerns raised that we develop the product specifications to a point where we think they are ready but when they start getting used in reality that it needs to be modified to exactly what is required.
* EM: The 3-week review period is for Edition 1.1.0. it is expected by the end of the year we will have a 1.2.0 and maybe further iterations into early 2024 before Edition 2.0. Post 2.0, to also expect a 2.1 within a relatively short period to address any issues that may arise.
* Noted that there is a risk, due to the tight timeframe and the level of testing that can be undertaken in the time left before Edition 2.0 that the product specification might not contain everything that is required.
1. **Update on testing across members.**
* TM: UKHO has a couple of trials it is looking to run, one with the Port of London Authority which is more focused on PPU’s (Pilots Portable Unit) and the second trial is working with SHOM and a number of ECDIS manufacturers, S-128 will be provided along with the trial data. To be conducted relatively soon. Hoping to make the S-128 data set be aligned with Edition 1.1.0. Looking at testing not just individual catalogues per product but also a combined catalogue to see what works best for manufacturers.
* SS: As demonstrated in Monaco at NIPWG10 ([Link](https://iho.int/uploads/user/Services%20and%20Standards/NIPWG/NIPWG10/NIPWG10_2023_11.5.4A_EN_PRIMAR%20S-128%20Catalogue%20of%20Nautical%20Products.pdf)). 1st year of PRIMAR’s S-128 project. Able to now create S-128 different type of content products on request via a created interface either a full catalogue of all the products in the portfolio or product specific or a combination of different types. Intention is to have this approach and as the product specification develops to simultaneously update the implementation of the data model. PRIMAR has datasets available to look at on request and is the process of establishing contact with the larger OEMs. PRIMAR hoping that S-128 will be included in the Baltic e-Nav project which is starting next month.
* TM: UKHO to look at during the SHOM trial to receive the SHOM data with a catalogue file from PRIMAR and combined with the UKHO catalogue to produce a catalogue that would be provided by a VAR.
* SM: IC-ENC will be supporting the UKHO-SHOM trial with test datasets, validation and producing the exchange sets and S-128 data sets. IC-ENC have the S-128 generation capability which is still being iterated against the revolving standards. Also comparing IC-ENC S-128 data sets with PRIMAR’s S-128 data sets, where at an IC-ENC/PRIMAR meeting it was agreed that there would need to be more RENC-to-RENC cooperation to harmonize and provide a consistent approach to S-128 data sets.
* CJ: The Baltic Sea e-Nav project is working with S-101, S-102, S-104 and S-111. S-128 has not yet been considered in the application but PRIMAR and IC-ENC are attending the 1st meeting so can be discussed for inclusion. Also involved in MaDaME (Maritime Date Methods for Safe Shipping) in the Baltic which is about S-124, S-125 and S-212 using MCP and SATCOM for distribution.
1. **Close & Next meetings**

**Action Item 3:** HC to provide S-128 Edition 1.1.0 to JW to distribute to NIPWG Members. HC, JW. 20th Oct 2023

* Reminder of NIPWG10 Action Item (updated to include deadline date):

**Action Item 26:** NIPWG invited to test S-128 1.1.0 when ready for review and to provide feedback to S-128 PT. All. 20th November 2023.

* If members are unable to attend the dedicated S-128 meetings, they encouraged to supply written update/feedback to JW to read out at the next meeting on their behalf.

**Action Item 4:** 2nd Dedicated S-128 meeting to be held. Strict focus on finalising PS development. All. Week Beginning 20th Nov 2023.

**Table of names & initials:**

|  |  |
| --- | --- |
| JM | Jo Marks |
| JW | James Weston |
| SS | Svein Skjaeveland |
| SM | Su Marks |
| EM | Eivind Mong |
| AA | Amilynn Adams |
| RB | Roderic Bera |
| JSC | Jens Søe Christiansen |
| DS | Deanna Sokoloski |
| CJ | Caroline Johansson |
| AC | Alper Celebi |
| HSV | Herman Schouten van der Velden  |
| HC | Hyunsoo Choi |
| TM | Thomas Mellor |

**Annex A: Action Items**

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| **#** | **Action Item** | **Agenda Item** | **Assigned** | **Status** |
| **1st Dedicated S-128, Oct 2023 – Hybrid Meeting** |  |
| 1 | All members to review the Product Type Table (Slide 4) and submit comments to JM/JW.  | 2 | All | 27th Oct 2023. |
| 2 | Dedicated 1.5hr VTC on Product Type Table (Slide 4). | 2 | JM, SS, AA, RB, JSC, DS, SM, CJ, AC, HSV. | Week Beginning 30th Oct 2023 |
| 3 | HC to provide S-128 Edition 1.1.0 to JW to distribute to NIPWG Members | 4 | HC, JW. | 20th Oct 2023. |
| 4 | 2nd Dedicated S-128 meeting to be held. Strict focus on finalising PS development | 4 | All | Week Beginning 20th Nov 2023 |

**Annex B: Agenda**

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| **1.0** | **Clarifying terms of reference for this monthly VTC**  | Jo Marks |
| **2.0** | **S-128 Product Specification update** | HyunSoo CHOI |
| **3.0** | **Review of S-128 development timeline** | Jo Marks |
| **4.0** | **Update on testing across members** | Jo Marks |
| **5.0** | **Close & Next meetings** | Jo Marks/James Weston |

**Annex C: List of Attendees**

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| **Attendees** |
| **IHO MEMBER STATES** |
| **Name** | **Country** | **Organization / Company** |
| Alper Celebi | Australia | Australian Hydrographic Office |
| Jamie Murphy | Australia | Australian Hydrographic Office |
| Vitor Romano | Brazil | Directorate of Hydrography and Navigation (DHN) |
| Bridget Gagné | Canada | Canadian Hydrographic Service (CHS) |
| Eivind Mong | Canada | Canadian Hydrographic Service (CHS) - Chair |
| Sarah Rahr | Canada | Canadian Hydrographic Service (CHS) |
| Deanna Sokoloski | Canada | Canadian Hydrographic Service (CHS) |
| Jens Søe Christiansen | Denmark | Danish Geodata Agency/Geodatastyrelsen (GST) |
| Stefan Engström | Finland | Finnish Transport Agency Hydrographic Office - Vice Chair |
| Roderick Bera | France | Service Hydrographique et Oceanographique de la Marine (SHOM) |
| Paolo Mondinelli | Italy | Istituto Idrografico Della Marina |
| Herman Schouten van der Velden  | Netherlands | Hydrographic Service - Royal Netherlands Navy (NLHO) |
| Richard Flapper | Netherlands | Hydrographic Service - Royal Netherlands Navy (NLHO) |
| Matilde Skjæveland Skår | Norway | Norwegian Hydrographic Service |
| Son Ji Hyun | Republic of Korea  | Korea Hydrographic and Oceanographic Agency (KHOA) |
| Caroline Johansson | Sweden | Swedish Maritime Administration |
| Andrew Richardson | UK | UK Hydrographic Office (UKHO) |
| Andrew Rigamonti | UK | UK Hydrographic Office (UKHO) |
| Christopher Gill | UK | UK Hydrographic Office (UKHO) |
| James Weston | UK | UK Hydrographic Office (UKHO) - Secretary |
| Jo Marks | UK | UK Hydrographic Office (UKHO) |
| Marcy Klimek | UK | UK Hydrographic Office (UKHO) |
| Thomas Mellor | UK | UK Hydrographic Office (UKHO) |
| Amilynn Adams | USA | US Coast Guard |
| Jason Strom | USA | National Geospatial-Intelligence Agency (NGA) |
| Noel Dyer | USA | National Oceanic and Atmospheric Administration (NOAA) |
| **INDUSTRY & TECHNICAL EXPERTS** |
| Carsten Hilgenfeld |   | Kpler |
| Yann Corlay |   | GEOMOD |
| Harin OH |   | GreenBlue INC |
| Su Marks |   | IC-ENC |
| Ed Kuwalek |   | IIC Technologies |
| Jonathan Pritchard |   | IIC Technologies |
| Hyunsoo Choi |   | KRISO |
| Shwu-Jing Chang |   | NTOU |
| Raphael Malyankar |   | Portolan Sciences |
| Svein Skjaeveland |   | PRIMAR / ECC |