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

**6th December 2023 – VTC, Worldwide**

Annex A: List of Action items

Annex B: HSSC 15 Action items

Annex C: Agenda

Annex D: List of Attendees

Annex E: Time Schedule

1. **Welcome**
* Chair opened the NIPWG VTC by welcoming new and returning members.
1. **Review of Action Items**
* See Annex A.

**Action Item 1:** Agenda Item at VTC01-24 on the expectations of Action Item 1 of VTC02-23. Chair Team. VTC01/24.

**Action Item 2:** Key Performance Indicators (NIPWG10 Action Item 7) Chair Team to follow up with TG Leads for HSSC submission. Chair Team & Task Group Leads. VTC01/24.

**3.1 S-100WG8 outcomes**

* It was agreed a new version of S-100 is necessary, will become S-100 Edition 5.2.0. The approval date for Edition 5.2.0 will be summer 2024. This revision of S-100 effects the S-1XX products of Phase 1 who will need to be revised and aligned accordingly with S-100 Edition 5.2.0. In NIPWG this gives S-128 a few extra months of development.
* The work that is ongoing and led by Korea is well appreciated outside of NIPWG as well. Any way we can support this work we should do.
* Interoperability identifier paper was submitted and approved and agreed upon. Noted that NIPWG has a task now to provide guidance to IHO for how to use Maritime Resource Names (MRN) in product specifications. This is being led by JP.
* The portrayal of complex data structures and Pick Reports was discussed and noted as an ongoing activity. Managed to get in a link between the need for attribute visualization to an item in part 1 of S-100 which allows a correction to the feature catalogue that allows for the option of declaring an attribute to visualize or not to visualize in Pick Reports and so on. This will hopefully deconflict the filter of the content of Pick Reports down to what is important for the end user.
* YG: To complement Eivind's short report on S-100WG8 outcomes, see Doc: [NIPWG-VTC03-03.1A](https://iho.int/uploads/user/Services%20and%20Standards/HSSC/LETTERS/2023/HSSC%20Chair%20Letter%20Outcome%20S-100WG8%20November%202023.pdf) on NIPWG VTC03 webpage which is an HSSC Chair Letter to HSSC WGs Chairs.

**Action Item 3:** NIPWG to provide guidance to IHO on how to use Maritime Resource Names (MRN) in product specifications. JP. VTC01/24

**Action Item 4:** Task groups to provide use cases for Complex Pick Reports to RM & Chair Team. Task Group Leads. On Going.

**9.5 S-128 – Catalogue of Nautical Products**

**9.5.1 S-128 Test Bed update**

* NIPWG noted the update.
* JW/EM: Comments made for S-128 1.0.0 have not yet been implemented in Edition 1.1.0. These comments to be reviewed and checked if still applicable or have now been superseded.

**Action Item 5:** NIPWG invited to review the new S-128 data model. All. End of Dec 2023.

**Action Item 6:** NIPWG invited to create S-128 data using local S-10X data through INToGIS and provide feedback to S-128 PT. All. VTC01/24.

**9.5.2 S-128 impact Study update**

* JSC: The first draft version (see Doc[: NIPWG-VTC03-09.5.2A](https://iho.int/uploads/user/Services%20and%20Standards/NIPWG/NIPWG%20VTC%202023/NIPWG_VTC03_2023_09.5.2A_EN_Impact%20study%20for%20S-128.docx) on NIPWG VTC03 webpage) of the impact study has been completed and is open for feedback.
* EM: This not a survey for each member of NIPWG to answer. Rather than conclusions to the questions should be done. For each question to anticipate the answer from each of the different stakeholders.

The working group is to do a self-assessment, how do we anticipate the impact of S-128 on these different stake holders. NIPWG to review after the first draft.

**Action Item 7:** JSC to draft answers to the impact study ‘on behalf’ of each stake holder within the impact study. JSC. End of Dec 2024.

**Action Item 8:** NIPWG to review the draft answers of the impact study once available. All. End of Jan 2024.

* JW: Need to factor within the timeline for the S-128 development that there is time for the DCQG to review S-128 2.0 before submission. Even though the deadline has been pushed back due to S-100 going to 5.2.0. S-128 needs to be completed before its own revised deadline so that DQWG have time to review the product specification.
* EM: S-128 needs to be in a complete state to DQWG to review.

**Action Item 9:** Agenda Item on DCWG at the 3rd dedicated monthly S-128 VTC. JW / HC. 3rd S-128 VTC 19th Dec 2023.

**6. Guidelines for Harmonized Communication and Electronic Exchange of Nautical Data for Port Calls**

* NIPWG noted the update.
* EM: the importance of this document cannot be stressed enough, however there are challenges in make the document official. The content of the document is incredibly important because it moves everybody in the direction of being able to exchange information between different domains. This is by having the same terms and definitions meaning the same across each of the domains. The document is bridging the terms and definitions across the navigational, operational, and administrative domains. NIPWG invited to read through the document and understand how this impacts your own organization.
* YG: The first question is to ask ourselves is who the custodian of this will be and who can make it enforceable and an officially implementable procedure. Is it IHMA or IMO? Currently this is unclear.

When we must report to HSSC on the progress, task the IMO rep to ask what the best way forward to make these guidelines operational at a certain level.

EM: Need a top down and bottom-up approach to get this going. It will be very powerful if the numbers Port of Rotterdam and Port of Singapore comes up if they are available and can be mentioned as evidence of once implemented the impact of hours saved, money etc.

**Action Item 10:** Include IHMA guide within the HSSC report and raise the question to IMO rep on how to make this document operational. EM. HSSC16 May 2024.

**9.6 S-131 – Marine Harbour Infrastructure**

**9.6.1 Project update**

* NIPWG noted the update.
* EM: Question: Is the GUI by NTOU able to see content in the database that has been ingested by the API?
* SJC: Yes, those extracted by API can be added, displayed in the GUI they also can be edited and exported.
* EM: Question: Can you input via the API, you can visualize it in the GUI, you can edit it and recommit it back into the database?
* SJC: That will be dataset for dataset not individual. If the editing is via API, it should be a complete dataset it must be handled in terms of dataset and not individual feature.
* EM: Question? The input to the database via the API, is that feature based or is it database based?
* EK: The API supports both, you can input features and unput datasets. The implementation so far might not have tested or used both options. Not all the end points in the API have been tested and implemented from the GUI side.
* SJC: To use feature by feature more protocols need to be developed.
* EM: The identifiers make it so that you cannot identify specific features therefore you have to use the dataset approach.

**Action Item 11:** S-131PT to work with JSC to start testing the API and GUI. S-131PT & JSC. VTC01/24

**Action Item 12:** S-131PT to contact BvS for API testing. S-131PT & BvS. VTC01/24

* + 1. **Inland ENCs Harmonization: Category Of BunkerStation or supplyService**
* NIPWG notes the request of IEHG.
* EM: Best approach is to have a meeting between NIPWG and IEHG to come up with a harmonization for S-131 and S-401.
* All those who would like to attend the meeting to contact Sarah and Eivind.

**Action Item 13:** Meeting with IEHG to be scheduled to discuss harmonization between S-131 and S-401. SR, EM, JMK. Jan 2024.

**8. USCG S-100 System Architecture update**

* AA: A draft of the diagram has been completed however feedback still needs to be incorporated. A version ready for presentation to be made available once it has been updated.

**Action Item 14:** Agenda Item USCG S-100 System Architecture update. JW / AA. VTC01/24.

**9.4 S-127 – Marine Traffic Management**

**9.4.1 Task Group update**

* EK: Speed Restrictions:

S-127TGhas received 3 comprehensive use cases for speed restrictions and how they impact national implementations from Finland, Canada, and the USA. VTC held to analyze the use cases, outcome was the surprise of how complex speed limit restrictions can be. It was noticed that speed restrictions can be attached to many feature types, they can have temporary restraints, seasonal implications, applicability limitations in terms of what vessel and cargo type they apply to. Therefore, a little bit more of a complex model than a simple speed restriction is needed to address the use case that have been received.

S-127 already has a restricted area by extending that restricted area a little bit would allow the ability to encode these various types of speed restrictions – agreed by the S-127TG as the best way to proceed.

Raphael has been asked to and is in the process of sanity check on the modelling itself to whether it is possible to add attributes and use applicability clauses to encode all the use cases.

**9.4.2 Creation of the German VTS Guide from S-127 datasets**

* NIPWG noted the presentation and the associated annexes.
* EM/YG: This work needs to be included in the working group report to HSSC16 as an achievement for the implementation of S-127.
* PS: The work undertaken by BSH gives a good idea that the current data model works.
* RM: Congratulations, is this was the general idea behind the S-100 model. Converting text into an object-based model which intern is used to generate both printed output and a form that can be used in GIS.
* PS: LinkedIn is a good platform to advertise to the maritime community aware of developments.
* MK: This approach can probably be adapted to include ship reporting systems, berth parameters, etc. Taking a significant number of discrete data point and combine them into a 'tabular looking' format. Nice job Philipp.
* EM: There was a couple of next steps within the presentation. As you continue to develop this work, please continue to report developments and progress to NIPWG.

**Action Item 15:** BSH work to be included in NIPWG report to HSSC. Chair Team & PS. HSSC16 May 2024.

**9.2 S-123 – Marine Radio Services**

**9.2.1 Task Group update**

* NIPWG noted the presentation.
* EM: Significant amount of work has been achieved by the task group, 19 meeting this year, congratulations to Bridget for hosting all the meetings that were sometimes not easy to conclude.
* NIPWG to await the to do list once it is ready to be submitted to the working group for review.

**9.1 S-122 – Marine Protected Areas**

**9.1.1 Task Group update**

* Alper to help JP in coordinating the work of the S-122 Task Group.
* Interest received from both the OGC and GGIM.
* First S-122TG meeting scheduled for Monday 11th December and any outstanding issues to be raised at the MSDI working group next year who also have significant interest in marine protected areas.
* S-127 modeling is common with S-122, once S-127 is finished the plan is to copy any parts that are relevant for S-122.

**9.3 S-125 – Marine Aids to Navigation**

**9.3.1 Development update**

* NIPWG noted the presentation.
* Draft version of S-128 Edition 1.0 to be ready for view by the working group in January 2024. if successful to be submitted to HSSC16 by early April.
* EM: Edition 1.0 doesn’t need to be perfect; it just needs to be sufficient for testing, which can then be refined as many times as needed on the path to Edition 2.0.

**9.3.2 S-124/S-125 Test at IHO-Singapore Lab Report**

* Noted the Presentation.
* There are rumors of a plan for similar sea trials to be held in the USA in September 2024 in conjunction with the joint IHO-IALA Workshop.

**3.2 Update on IMO Expert Group on Data Harmonization (EGDH)**

* Noted the Meeting Report.

**7. S-100WG8 Complex Portrayals Paper update**

* Agenda item skipped and rolled onto next NIPWG VTC

**Action Item 16:** Agenda item onS-100WG8 Complex Portrayals Paper update at next VTC. EM. VTC01/24

**4. NIPWG Data Quality**

* RM: DQWG made several new submissions to the S-100 Working Group especially in relation to S-97 Part C which lists the data quality checks required for product specifications. The group was advised to submit a S-100 change proposals to the next S-100 Working Group meeting. What this means for the S-97 Part C update and applied for the current product specification is still to be confirmed.

**5. IEC WG17 Joint IHO IEC meeting**

* To be addressed via email to the working group.

**Action Item 17:** Chair Team to email working group asking for volunteers to attend the IEC WG17 Joint IHO IEC meeting. Chair Team. End of Dec 2024.

**10. Next meetings**

* EM: NIPWG11 to be somewhere in Europe, however still awaiting official confirmation on location. Dates to be 24th to 27th September 2024. A working group letter will be distributed once everything has been confirmed.
* Next NIPWG VTC, 01/24, to be held on 5th of March 2024 at 1200 UTC.
* Next dedicated S-128 VTC being held on 19th December 2023 contact James Weston for an invite if you have not received one already.

**Table of names & initials:**

|  |  |
| --- | --- |
| EM | Eivind Mong |
| YG | Yves Guillam |
| JW | James Weston |
| JSC | Jens Søe Christiansen |
| SJC | Shwu-Jing Chang |
| EK | Ed Kuwalek |
| JMK | John Morten Klingsheim |
| AA | Amilynn Adams |
| PS | Philipp Schwedas |
| MK | Michael Kushla |
| RM | Raphael Malyankar |

**Table of Acronyms:**

|  |  |
| --- | --- |
| EGDH | Expert Group on Data Harmonization |
| DQWG | Data Quality Working Group |
| TSM | Test Strategy Meeting |
| MRN | Maritime Resource Names |
| HSSC | Hydrographic Services and Standards Committee |
| FC | Feature Catalogue  |
| FOID | Feature Object Identifier |
| RENC | Regional ENC Coordinating Centre |
| GUI | Graphical User Interface |
| NP | Nautical Publication |
| IEC | International Electrotechnical Commission  |
| IEHG | Inland ENC Harmonization Group |
| OCG | Open Geospatial Consortium |
| GGIM (UN-GGIM) | The United Nations Committee of Experts on Global Geospatial Information Management |
| MSDI | Marine Spatial Data Infrastructures |

**Annex A: Action Items**

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| **#** | **Action Item** | **Agenda Item** | **Assigned** | **Status** |
| **NIPWG 9, 2022 – Hybrid Meeting** |  |
| 04 | NGA are invited to present the presentation on WPI to the S-130 PT, for their consideration, as the names of water bodies may not be included as such in the S-130 product specification (use of Unique Identifiers instead).  | 13.1 | JS/MK | ~~NIPWG10~~~~VTC03-23(Dec-23)~~COMPLETED |
| 05 | NGA is encouraged to ensure the interface for WPI is developed so that it guarantees harmonization with S-1xx products, specifically S-131 (to reduce/remove any possibility of duplicate efforts from users/providers).  | 13.1 | JS/MK | ~~NIPWG10VTC03-23(Dec-23)~~On Going  |
| 06 | NGA will update NIPWG when public facing website of the World Port Index is live. | 13.1 | JS | ~~NIPWG10~~In Progress |
| 19 | S-128 task group to review the link between task specific products and the model in S-128. And add ‘B’ work items, such as to ‘investigate potential impacts on the data model when considering automatic creation of S-128 product from existing S-1xx and S-57 products. i.e., is there sufficient simplicity in the model so that you can take the coverage of one model and make it part of S-128 (look into automation tasks)’. | 11.1 | S-128 Working Group | ~~VTC-03~~~~(Dec-22)~~~~VTC03-23~~~~(Dec-23)~~In Progress |
| 23 | Request that SO (Dr. Oh) and his role as IALA/ARM…S-125 task group lead, and his involvement with the S-128 task group, to please review the introduction of S-125 and S-128 and try to replace the NPIO term with a better description of the product specifications intended use. | 5.1 | SO | ~~NIPWG10~~In Progress |
| 24 | Invite all task groups to consider the updated descriptions in S-125 and S-128 when conducting their next product specifications review. | 5.1 | ALL | ~~NIPWG10~~In Progress |
| 28 | NIPWG members to make use of the NIWPG wiki in the dialogue on improving the DCEG on all S-12x products. | 10.3 | ALL | ~~NIPWG10~~In Progress |
| **NIPWG VTC-01 (2023)** |
| 4 | Review List of action items from DQWG last meeting (held in Feb 7-9, 2023) when released. Chair Team, All S-12x Task Group Leads. | 3 | Chair Team,S-12x Task Group Leads | VTC-02(Jun 2023)In Progress |
| 6 | Task Group leads to continue to discuss the topic of GML within their teams (who are working on GML products), for further refinement, and send ongoing input to RM. | 4 | All Task Groups | VTC-02(Jun 2023)On Going |
| 8 | All to review NIPWG-VTC01-06.0A and provide ideas for best practice on how S-12x information should be presented in production and for end user. | 6 | All NIPWG | VTC-02(Jun 2023)On Going |
| 11 | Please download and view the German S-128 test data, and feedback comparisons and observations to PS | 7.5.1 | All NIPWG | ~~VTC-02~~~~(Jun 2023)~~~~NIPWG-10~~VTC-03/23(Dec-23)COMPLETED |
| 12 | NIPWG to prepare spreadsheet or table for discussion with IHO GI Registry Meeting. Chair Team. | 7.6.2 | Chair Team | ~~VTC-02~~~~(Jun 2023)~~~~NIPWG10~~In Progress |
| **NIPWG VTC-02 (2023)** |
| 1 | Task Group leads to prepare plans on how to implement Data Quality based on the recommended template of the Data Quality chapter of ‘S-1XX Data Product Specifications’ developed by DQWG. | 3.2 | All Task Groups Leads | ~~NIPWG10~~~~VTC-03/23~~~~(Dec-23)~~On Going |
| 5 | UKHO to provide comments on S-125 | 8.3.1 | JM | 31st July 2023COMPLETED |
| 7 | Current guidance on data capture from S-131 to be posted on Wiki in a common page for members to refer to. | 9 | RM | NIPWG-10On Going |
| **NIPWG10, 2023 – Face to Face Meeting** |
| 1 | HSSC15/05 Decision A3/07. NIPWG to review current resolutions in M3 section 2.4 Nautical publications are still current and up to date. | 4.1 | Chair Team | VTC03-23(Dec-23)On Going |
| 2 | HSSC15/05 Decision A3/08e. NIPWG to prepare first draft input into the next IHO strategic plan 2027-2032 to be considered at HSSC16 | 4.1 | Chair Team | VTC01-24 |
| 3 | HSSC15/05 Decision A3/21, NIPWG to review method and frequency of meetings and to provide input to HSSC16 | 4.1 | Chair Team | VTC01-24 |
| 4 | HSSC15/08. NIPWG to provide the HSSC chair updates on SPI. | 4.1 | Chair Team | VTC01-24 |
| 5 | Agenda Item at next VTC Report on the S-124/S-125 Test at IHO-Singapore Lab. | 4.1 | Chair Team | VTC03-23(Dec-23)COMPLETED |
| 6 | HSSC15/86, NIPWG to prepare comment paper for HSSC/IHO Secretariat on the proposal submitted by ROK MOF (Ministry of Oceans and Fisheries) on the use of electronic nautical publications at NSCR-11. | 4.1 | Chair Team | NSCR-12 (June 24) Deadline Feb 2024 |
| 7 | Task Groups to develop key performance indicators for each of the product specifications to also feed into Action item 44. | 5.1 | Task Group Leads | VTC03-23(Dec-23)On Going |
| 8 | Task Groups to provide point of contact for S-64 and S-98. | 5.1 | Task Groups | VTC03-23(Dec-23)In Progress |
| 9 | Task groups to provide test data sets to aid S-164 development. | 5.3 | Task Group Leads | When available |
| 10 | Task group leads to read through and check the current draft of S-98 Annex C and comment/prepare input paper to be defined and published in S-98. | 5.3 | Task Group Leads | As soon as possible. |
| 11 | IHO Secretariat to consider the branding of The Guide for Nautical Data version 1.4 by IHMA. | 11.6.2 | YG | VTC03-23(Dec-23)COMPLETED |
| 13 | NIPWG subgroup to create use cases as pictures or text for complex portrayals examples and pic reports  | 8.2 | SE(lead), RM, JP, PS, RB(with additional SHOM colleagues) and Canadian Coast Guard. | October 15(S-100WG8)COMPLETED |
| 14 | Overview paper, RM’s paper and use cases created by the NIPWG subgroup (Action Item 13) to be submitted to S-100WG. | 8.2 | NIPWG Subgroup | October 15(S-100WG8)COMPLETED |
| 15 | Action Item 13 to be raised with S101PT and the Portrayal Subgroup. | 8.2 | JW | October 15(S-100WG8)COMPLETED |
| 16 | NIPWG to pass to S-100 Validation Sub working group recommendation of restricting GML types by clarification. | 9.0 | EM | VTC03-23(Dec-23)COMPLETED |
| 17 | ENDS diagram: Updating names, shape etc and to link with SOLAS regulations. | 4.2.1 | CJ(Lead), SR, SE, MK, CG EM, JS | VTC01-24 |
| 18 | Send input paper to IALA ARM17 requesting support on writing the S-100 world architecture. | 4.2.1 | EM | End September 23COMPLETED |
| 19 | Operational Interaction diagram on S-100 world architecture to be expanded to include the other nautical publications and charting tasks, their relationship and how it ends up at the ship | 4.2.1 | IALA ARM | VTC01-24 |
| 20 | Agenda item at VTC01-24 to review S-100 world architecture completed by IALA ARM (Action item 16) | 4.2.1 | Chair Team | VTC01-24 |
| 21 | Canadian Coast Guard to provide input paper to the S-127TG on use cases of speed restrictions within the St Lawrence River. | 11.4.1 | RJ | VTC03-23(Dec-23)COMPLETED |
| 22 | Create and distribute a detailed timeline (Nov 23-Aug 24) of roadmap to PS 2.0 creation, including when tool is ready to be used for testing. | 11.5.1 | S-128 PT / Chair Team | VTC03-23(Dec-23)On Going |
| 23 | Product Type attribute; check PS 1.1.0 for the inclusion of traditional paper products (List of Light, SDs etc.) and other different use cases. | 11.5.1 | S-128 PT | ~~Mid-October 2023~~On Going |
| 24 | DCEG guidance for the different uses to be reviewed in preparation of PS 1.1.0 | 11.5.1 | S-128 PT | ~~Mid-October 2023~~On Going |
| 25 | NIPWG invited to test S-128 1.1.0 when ready for review and to provide feedback to S-128 PT. | 11.5.1 | All | November 2023COMPLETED |
| 26 | NIPWG is invited to provide comments on Product Type when PS is open for review. | 11.5.1 | All | November 2023COMPLETED |
| 27 | Dedicated S-128 VTC to be held monthly. Strict focus on finalising PS development. | 11.5.2 | All | ~~Starting 3~~~~rd~~ ~~week October~~On Going |
| 28 | Dedicated S-128 VTC on discussion on distribution and use cases.  | 11.5.2 | All | VTC03-23(Dec-23)On Going |
| 29 | Denmark to conduct Impact Study on S-128 and report back to NIPWG | 11.5.2 | JSC | VTC01-24 |
| 30 | Consider and feedback to NIPWG if a simple portrayal catalogue will delay draft of PS 1.1.0.  | 11.5.2 | S-128PT | 15th Sept 2023COMPLETED |
| 31 | Investigation to be conducted in the usability and feasibility of S-128 providing association to Maritime Services.  | 11.5.3 | EM, CJ, SE | End Sept 2023On Going |
| 32 | Review S-128 and find any gaps between Data model and registry. | 11.5.4 | JSC & SJH | VTC03-23(Dec-23)On Going |
| 33 | Investigate how you would capture a sub area in S-123. | 11.2.1 | CG, S-123TG | VTC03-23(Dec-23)COMPLETED |
| 34 | Input paper to be submitted to S-100WG recommending with the support of NIPWG a statement that overlapping radio coverage areas is possible and a statement be added to S-98 Annex C | 11.2.1 | HP | October 15(S-100WG8)On Going |
| 35 | Proposed changes to S-123 to be shared with NIPWG and to provide a period of review (6-8 Weeks) to the have an approved to do list to generate the next version of the PS | 11.2.1 | S-123 Lead/Chair Team | VTC03-23(Dec-23)COMPLETED |
| 36 | VTC to be arranged to assess BV’s proposals and to be amalgamated with other S-123 changes and shared with NIPWG | 11.2.2 | S-123TG, Chair Team and IM | VTC03-23(Dec-23)COMPLETED |
| 37 | Paper on the interoperability identifier to be submitted to S-100WG and supplementary paper to S-98. MRN Task group. VTC03/23 | 5.4 | JP | October 15(S-100WG8)COMPLETED |
| 39 | SHOM to lead a Task group identifying gaps in French SDs and future S-12X products. | 9.0 | RB, S-12X Task Group Leads + All | VTC03-23(Dec-23)On Going |
| 41 | Review of the NIPWG workplan 2024-25 for submission to HSSC16 | 16.1 | Chair Team | VTC01/24 |
| 42 | Create list of each task group membership, roles within NIPWG and to include on NIPWG page. | 16.1 | JWE/Task Group Leads | VTC03-23(Dec-23)On Going |
| 43 | Call for members to review the NIPWG membership list for changes including additions and removals and inform the IHO Secretariat and NIPWG Chair Team.  | 14.0 | All | 30th September 2023COMPLETED |
| 44 | NIPWG to draft their own working group level milestones. | 16.1 | Chair Team/Task Group Leads | VTC03-23(Dec-23)On Going |
| **NIPWG VTC-03 (2023)** |
| 1 | Agenda Item at VTC01-24 on the expectations of Action Item 1 of VTC02-23 | 2 | Chair Team | VTC01/24 |
| 2 | Key Performance Indicators (NIPWG10 Action Item 7) Chair Team to follow up with TG Leads for HSSC submission. | 2 | Chair Team & Task Group Leads | VTC01/24 |
| 3 | NIPWG to provide guidance to IHO on how to use Maritime Resource Names (MRN) in product specifications. | 3.1 | JP | VTC01/24 |
| 4 | Task groups to provide use cases for Complex Pick Reports to RM & Chair Team | 3.1 | Task Group Leads | VTC01/24On Going |
| 5 | NIPWG invited to review the new S-128 data model. | 9.5.1 | All | End of Dec 2023 |
| 6 | NIPWG invited to create S-128 data using local S-10X data through INToGIS and provide feedback to S-128 PT. | 9.5.1 | All | VTC01/24 |
| 7 | JSC to draft answers to the impact study ‘on behalf’ of each stake holder within the impact study. | 9.5.2 | JSC | End of Dec 2024 |
| 8 | NIPWG to review the draft answers of the impact study once available. | 9.5.2 | All | End of Jan 2024. |
| 9 | Agenda Item on DCWG at the 3rd dedicated monthly S-128 VTC. | 9.5.2 | JW/HC | 3rd S-128 VTC19th Dec 2024 |
| 10 | Include IHMA guide within the HSSC report and raise the question to IMO rep on how to make this document operational. | 6 | EM | HSSC16 May 2024 |
| 11 | S-131PT to work with JSC to start testing the API and GUI. | 9.6.1 | S-131PT & JSC | VTC01/24 |
| 12 | S-131PT to contact BvS for API testing. | 9.6.1 | S-131PT & BvS | VTC01/24 |
| 13 | Meeting with IEHG to be scheduled to discuss harmonization between S-131 and S-401. | 9.6.2 | SR, EM, JMK | Jan 2024 |
| 14 | Agenda Item USCG S-100 System Architecture update. | 8 | JW/AA | VTC01/24 |
| 15 | BSH work to be included in NIPWG report to HSSC. | 9.4.2 | Chair Team & PS | HSSC16 May 2024 |
| 16 | Agenda item onS-100WG8 Complex Portrayals Paper update at next VTC. | 7 | EM | VTC01/24 |
| 17 | Chair Team to email working group asking for volunteers to attend the IEC WG17 Joint IHO IEC meeting. | 5 | Chair Team | End of Dec 2024 |

**Annex B: NIPWG List of Decisions & Action Items Arising from HSSC-15**

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| **5.3** **Nautical Information Provision (NIPWG)** |
| 5.3A | S-100 System Architecture, IMO’s Maritime Services | HSSC15/36(former HSSC14/44, HSSC13/35) | Noting different expectations, **HSSC** welcomed the offer made by **NIPWG** in liaison with **S-100WG** to complement the S-100 System Architecture by a submission paper addressing the what/how/when the S-100 based products should work together in a future S-100 ECDIS environment. | **HSSC-16** | In progress with Canadian Coast Guard and other agencies |
| 5.3A | Maritime Services, e-navigation | HSSC14/45 (former HSSC13/37, HSSC12/32, HSSC11/36) | **HSSC** tasked the responsible **HSSC WGs** [and will invite also the **IRCC/WWNWS-SC**] to review the initial descriptions of “*Maritime Services in context of e-navigation*” under their remit and to provide them to **NIPWG** for further action if appropriate.**NIPWG** to send reminders as appropriate. | **Permanent****Deadline to be confirmed by NIPWG** | Closed |
| 5.3A | Maritime Services, e-navigation | HSSC15/37(former HSSC 14/46, HSSC13/38) | **HSSC** tasked **NIPWG** to act as the responsible IHO WG to monitor and contribute to the IMO Expert Group on Data Harmonization (EGDH). | **Permanent** | In progress (engaged with IMO EGDH) |
| 5.3A | Scale Dependent (SD)/Scale Independent (SI) | HSSC15/38(former HSSC 14/47, HSSC13/40) | After having considered an IALA outline paper describing how S-201, S-124, S-125 may work together, **HSSC** tasked **NIPWG** to provide a paper discussing SD/SI data handling aspects. | **HSSC-16** | In progress |
| 5.3A | S-100 Whole Picture | HSSC15/39(former HSSC14/49, HSSC13/41) | **HSSC** welcomed the offer by **NIPWG** to develop an outline paper, in liaison with **S-100WG**, describing the whole S100 picture in close cooperation with stakeholders, inside and outside the IHO community and with IMO in particular. | **HSSC-16** | In progress |
| 5.3A | S-12x (S-122, S-123, …) | HSSC15/40 (former HSSC14/50) | **HSSC** noted the status report on the development of the new Edition of these Product Specifications to be aligned with S-100 Ed. 5.1.0 and the remaining challenges (Portrayal, etc.). | **HSSC-15** | All products in the process of being aligned with S-100 Ed. 5.1.0 except S-131 |
| 5.3B | S-128 | HSSC14/52 | **HSSC** advised **NIPWG** to liaise with **S-100WG** on issues identified regarding responsibility of stakeholders in producing and distributing S-128 and for **NIPWG** to provide an input paper to WENDWG13. | **WENDWG-13/HSSC-15** | Noted in agenda of WENDWG13, discussed at S-100WG7. Complete. |
| 5.3A | S-12x | HSSC15/41 | **HSSC** noted the possible S-128 scenarios (fig. 2 in Doc. HSSC15-05.3A) and the progress made on other S-12x products in NIPWG portfolio (work on track for S-122, S-123, S-125, S-127). |  |  |
| 5.3A | S-126 | HSSC15/42 | Noting the lack of resources available and other high priority products, **HSSC** agreed to put on hold the development of S-126 until further notice and/or recommendation from NIPWG. |  | Decision |
| 5.3B | S-131 | HSSC15/43 | **HSSC** commended **NIPWG** and **partners** for the work done on S-131 and approved Ed. 1.0.0 of S-131 for initial implementation, testing and evaluation.Alignment with S-100 Ed. 5.1.0 to be considered. | **HSSC-16** | Decision |
| 5.3A, 7.1B | S-124 | HSSC15/44 | Noting the endorsement from the S-100WG, **HSSC** commended the WWNWSC and S-124PT for their work and approved Ed. 1.0.0 of S-124 – *Navigational Warnings* - for initial implementation, testing and evaluation.**HSSC Chair** to report to IRCC (since the WWNW-SC is under its remit). | **IRCC-15** | Decision |
| 5.3 | S-125 | HSSC15/45 | **HSSC** invited **NIPWG** to deliver at the next S-100WG meeting, a presentation on the concept and various options for the operational implementation of S-125 in the future, as well as on interoperability issues with S-101 and S-124. | **S-100WG8****HSSC-16** |  |

**Annex C: Agenda**

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| **Agenda Item** | **Topic** | **Presenter** | **Item Time** |
| **1.0** | **Welcome** | Chair | 00:05 |
| **2.0** | **Review of Action Items** | Chair | 00:15 |
| **3.0** | **Review of other Working Group reports** |   |  |
| **3.1** | **S-100WG8 outcomes** | Eivind Mong | 00:10 |
| **3.2** | **Update on IMO Expert Group on Data Harmonization (EGDH)** | Stefan Engström | 00:05 |
| **4.0** | **NIPWG Data Quality** | Raphael Malyankar | 00:05 |
| **5.0** | **IEC WG17 Joint IHO IEC meeting** | Eivind Mong | 00:05 |
| **6.0** | **Guidelines for Harmonized Communication and Electronic Exchange of Nautical Data for Port Calls** | Ben van Scherpenzeel | 00:10 |
| **7.0** | **S-100WG8 Complex Portrayals Paper update** | Eivind Mong | 00:05 |
| **8.0** | **USCG S-100 System Architecture update** | Amilynn Adams | 00:10 |
| **9.0** | **Product Specification updates** |  |  |
| **9.1** | **S-122 – Marine Protected Areas** |  |  |
| 9.1.1 | Task Group update | Jonathan Pritchard | 00:05 |
| **9.2** | **S-123 – Marine Radio Services** |  |  |
| 9.2.1 | Task Group update | Bridget Gagné | 00:20 |
| **9.3** | **S-125 – Marine Aids to Navigation** |  |  |
| 9.3.1 | Development update | Dr Sewoong Oh | 00:10 |
| 9.3.2 | S-124/S-125 Test at IHO-Singapore Lab Report | Eivind Mong/Dr Sewoong Oh | 00:10 |
| **9.4** | **S-127 – Marine Traffic Management** |  |  |
| 9.4.1 | Task Group update | Ed Kuwalek | 00:10 |
| 9.4.2 | Creation of the German VTS Guide from S-127 datasets | Philipp Schwedas | 00:15 |
| **9.5** | **S-128 – Catalogue of Nautical Products** |  |  |
| 9.5.1 | S-128 Test Bed update | Son Ji Hyun/HyunSoo Choi | 00:10 |
| 9.5.2 | S-128 impact Study update | Jens Søe Christiansen | 00:10 |
| **9.6** | **S-131 – Marine Harbour Infrastructure** |  |  |
| 9.6.1 | Project update | Sarah Rahr | 00:10 |
| 9.6.2 | Inland ENCs Harmonization: Category Of BunkerStation or supplyService | Eivind Mong | 00:05 |
| **10.0** | **Next meetings** | Chair | 00:05 |
| **10.1** | NIPWG 11: 24th to 27th September 2024 |  |  |
| **10.2** | Next VTC: XX March 2024 |  |  |
| **10.3** | Next Dedicated S-128 VTC: 19th Dec 2023 |   |   |

**Annex D: List of Attendees**

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| **Registered Attendees** |
| **Name** | **Country** | **Organization / Company** | **Y/N** |
| **IHO MEMBER STATES** |
| Jamie MURPHY | Australia | Australian Hydrographic Office | Y |
| Eivind MONG | Canada | Canadian Coast Guard - Chair | Y |
| Bridget GAGNÉ | Canada | Canadian Coast Guard | Y |
| Sarah RAHR | Canada | Canadian Hydrographic Service (CHS) | Y |
| Jen Søe CHRISTIANSEN | Denmark | Danish Geodata Agency/Geodatastyrelsen (GST) | Y |
| Stefan ENGSTRÖM | Finland | Finnish Transport Agency Hydrographic Office | Y |
| Roderick BERA | France | Service Hydrographique et Oceanographique de la Marine (SHOM) | Y |
| Philipp SCHWEDAS | Germany | Bundesamt für Seeschifffaahrt & Hydrographie (BSH) | Y |
| Stelios CONTARINIS | Greece | National Technical University of Athens (NTUA) | Y |
| Tetsuichiro YABUKI | Japan | Japan Coast Guard (JCG) | Y |
| Richard Flapper | Netherlands | Hydrographic Service - Royal Netherlands Navy (NLHO) | Y |
| Matilde Skæveland SKÅR | Norway | Norwegian Hydrographic Service | Y |
| John Morten KLINGSHEIM | Norway | Norwegian Coastal Administration | Y |
| Miguel Angel LOBEIRAS DE LA CRUZ | Spain | Instituto Hidrografico de la Marine | N |
| Caroline JOHANSSON | Sweden | SJOFARTSVERKET (SWEDISH MARITIME ADMINISTRATION)  | Y |
| Christopher GILL | UK | UK Hydrographic Office | Y |
| James WESTON | UK | UK Hydrographic Office (UKHO) - Secretary | Y |
| Jo Marks | UK | UK Hydrographic Office (UKHO) | Y |
| Michael KUSHLA | USA | National Geospatial-Intelligence Agency (NGA) | Y |
| Amilynn ADAMS | USA | United States Coast Guard (USCG) | Y |
| **INDUSTRY & TECHNICAL EXPERTS** |
| Ben VAN SCHERPENZEEL  |  | International Harbour Masters Association (IHMA) | Y |
| Raphael MALYANKAR |   | Portolan Sciences | Y |
| Virgil ZETTERLIND |   | Anthropocene Institute | Y |
| Yann CORLAY |   | GEOMOD | Y |
| Hugh ASTLE |   | Teledyne Geospatial | Y |
| Ed KUWALEK |   | IIC Technologies | Y |
| Svein SKJAEVELAND |   | PRIMAR | Y |
| Carlo Alberto GALLI |   | GARMIN | Y |
| Yves GUILLAM |   | International Hydrographic Office (IHO) | Y |
| Shwu-Jing CHANG |   | National Taiwan Ocean University (NTOU) | Y |
| HyunSoo CHOI |   | Korea Research Institute of Ships & Ocean Engineering (KRISO) | Y |
| Seewong OH |   | Korea Research Institute of Ships & Ocean Engineering (KRISO) | Y |
|  |  |  |  |
| **Non-Registered Attendees** |
| **Name** | **Country** | **Organization / Company** | **Y/N** |
| **IHO MEMBER STATES** |
| Alper CELEBI | Australia | Australian Hydrographic Office | Y |
| André BIONDI | Brazil | CHM - Centro de Hidrografia da Marinha | Y |
| Bente BERGGRAF | Norway | Norwegian Hydrographic Service | Y |
| Herman Schouten van der Velden  | Netherlands | Hydrographic Service - Royal Netherlands Navy (NLHO) | Y |
| Krzysztof SZUMIELEWICZ | Poland | Hydrographic Office of the Polish Navy | Y |
| Piotr PASZTELAN | Poland | Hydrographic Office of the Polish Navy | Y |
| **INDUSTRY & TECHNICAL EXPERTS** |
| Harin OH |   | GreenBlue INC | Y |
| Su Marks |   | IC-ENC  | Y |
| Jonathan PRITCHARD |   | IIC Technologies | Y |

**Annex E: Time Schedule**

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| --- | --- | --- | --- |
| **Agenda Item** | **Topic** | **Presenter** | **Item Time** |
| **1.0** | **Welcome** | Chair | 00:05 |
| **2.0** | **Review of Action Items** | Chair | 00:15 |
| **3.1** | **S-100WG8 outcomes** | Eivind Mong | 00:10 |
| **9.5** | **S-128 – Catalogue of Nautical Products** |  |  |
| 9.5.1 | S-128 Test Bed update | Son Ji Hyun/HyunSoo Choi | 00:10 |
| 9.5.2 | S-128 impact Study update | Jens Søe Christiansen | 00:10 |
| **6.0** | **Guidelines for Harmonized Communication and Electronic Exchange of Nautical Data for Port Calls** | Ben van Scherpenzeel | 00:10 |
| **9.6** | **S-131 – Marine Harbour Infrastructure** |  |  |
| 9.6.1 | Project update | Sarah Rahr | 00:10 |
| 9.6.2 | Inland ENCs Harmonization: Category Of BunkerStation or supplyService | Eivind Mong | 00:05 |
| **8.0** | **USCG S-100 System Architecture update** | Amilynn Adams | 00:10 |
| **9.4** | **S-127 – Marine Traffic Management** |  |  |
| 9.4.1 | Task Group update | Ed Kuwalek | 00:10 |
| 9.4.2 | Creation of the German VTS Guide from S-127 datasets | Philipp Schwedas | 00:15 |
| **9.2** | **S-123 – Marine Radio Services** |  |  |
| 9.2.1 | Task Group update | Bridget Gagné | 00:20 |
| **9.1** | **S-122 – Marine Protected Areas** |  |  |
| 9.1.1 | Task Group update | Jonathan Pritchard | 00:05 |
| **9.3** | **S-125 – Marine Aids to Navigation** |  |  |
| 9.3.1 | Development update | Dr Sewoong Oh | 00:10 |
| 9.3.2 | S-124/S-125 Test at IHO-Singapore Lab Report | Eivind Mong / Dr Sewoong Oh | 00:10 |
| **3.2** | **Update on IMO Expert Group on Data Harmonization (EGDH)** | Stefan Engström | 00:05 |
| **7.0** | **S-100WG8 Complex Portrayals Paper update** | Eivind Mong | 00:05 |
| **4.0** | **NIPWG Data Quality** | Raphael Malyankar | 00:05 |
| **5.0** | **IEC WG17 Joint IHO IEC meeting** | Eivind Mong | 00:05 |
| **10.0** | **Next meetings** | Chair | 00:05 |
| **10.1** | NIPWG 11: 24th to 27th September 2024 |  |  |
| **10.2** | Next VTC: XX March 2024 |  |  |
| **10.3** | Next Dedicated S-128 VTC: 19th Dec 2023 |   |   |