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

**20th June 2024 – VTC, Worldwide**

Annex A: List of Action items

Annex B: HSSC16 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**

**2.1 Review of NIPWG Action Items**

* See Annex A.
* NIPWG 9 Agenda Item 28, “*NIPWG members to make use of the NIWPG wiki in the dialogue on improving the DCEG on all S-12x products”*. The action Item is now closed, and instead it will become a standing agenda item at NIPWG meetings.
* NIPWG VTC01(2023) Agenda Item 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”.*

RM: DQWG met at the end of March, DQWG proposal revision of DQ material is pending with S-100WG, most likely in Edition 6.0. DQWG informed that NIPWG S-12X Product Specifications will continue to use the old guidance and S-97 Part C until the DQWG recommendations are finalised by the S-100 WG. Recommend this agenda item is closed and reopened after Edition 6 is finalised.

* NIPWG VTC01(2023) Agenda Item 12, *“NIPWG to prepare spreadsheet or table for discussion with IHO GI Registry Meeting. Chair Team”*.

**Action Item 1:** Chair Team to send reminder to Task Groups for items that need discussion (NIPWG VTC01(2023) Agenda Item 12). Chair Team. 5th July 2024

* NIPWG 10 Agenda Item 17, “ENDS diagram” (within NIPWG VTC01/24 Minutes). YG: The plan is to include the ENDs diagram within the annex of the S-100 Road Map. It is also available within the HSSC16 Bulletin Report [(Link)](https://iho.int/uploads/user/Services%20and%20Standards/HSSC/HSSC16/BR_HSSC16_May2024_v1.pdf)
	1. **Update on IMO Expert Group on Data Harmonization (EGDH)**
* NIPWG noted the update and will await further discussion at NIPWG11.
* YG: There will be a special agenda item at the next Council meeting to improve the way issues are addressed between the IMO and IHO in the context of the S-100 framework.

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

**6.5.1 S-128 Test Bed update**

* NIPWG noted the update.
* EM: Revised version of S-128 2.0.0 will be supplied by July 1st. the Chair Team will review this version and Stefan will undertake a quick validation of the various XML components before it is sent out to all of NIPWG’s members for review.

**6.5.2 Proposal for Correcting Errors and Omissions in S-128 1.2.0 Version**

* NIPWG noted the paper.
* RM: Some of the terms for specific usage are already defined in the Registry in other contexts. Definitions cannot be just changed in S-128, the definitions must come from the Registry, as the term has to come from the Registry it may being already used by other product specifications. Suggest that instead of changing the existing definitions in the Registry, it may be required to create a new term such as General Usage and then be defined as S-128 pleases. Before making any changes in the Registry NIPWG should be consulted on any changes proposed by S-128PT.
* EM: The proposed solution is to instead of having specific usage with the 6 values in the table. The definition should be changed to new definitions adding the suffix ‘usage’ to the end and creating their own definitions to match.
* RM: Recommended to check the definitions in the Registry and if a change is recommended then to circulate the recommendation to the whole of NIPWG. Some definitions in the table within the paper have recently been changed.
* SS: "specific usage" itself is also not yet registered.
* EM: NIPWG agrees with the paper presented by China MSA, and they are invited to submit a proposal of amended definitions to NIPWG.
* **Post VTC Discussion**

The definition to prefix with; “Navigational Purpose" (instead of usage, specific usage etc.) The reason for this is, that the term "Navigational Purpose" is in fact registered, and defined as; *“In ECDIS, the specific purpose for which an ENC has been compiled. There are six such purposes; berthing, harbour, approach, coastal, general, and overview.”*

Based on that definition, adding "Navigational Purpose Berthing", "Navigational Purpose Approach" etc. seems logical.

**Action Item 2:** China MSA to submit proposed list changes to NIPWG Chair team. YZ. 28th June 2024.

**Action Item 3:** Chair team to review proposed changed and distribute to S-128PT and NIPWG. Chair Team. 2nd July 2024.

* JP: S-128 Item raised at S-101PT meeting, are titles part of the S-128 data model? Titles of ENCs would like to be included within S-128 and there was a concern if it was part of the data model or not. If they are not available the S-101PT would be interested to see if it could be added, noting the late stage of the submission, and if there isn’t couldn’t anything else with free text be used instead.
* SS: Within the data model, could not find ‘Title’ defined in S-128.
* EM: Every single catalogue element has a featureName attribute which is free text and is in the Registry.
* SS: Isn’t the intended use for features?
* JP: In the context of S-128 and dataset is a feature so will be ok to use. S-101PT chair to be informed.

**4.0 HSSC 16 outcomes**

* See Annex B.
* EM: HSSC 16 took place the end of May in Tokyo, Japan, very well hosted by JHOD. The work of NIPWG was well recognized and well noted. To be discussed with agenda item 4.1 a request by HSSC to NIPWG asking about the Phase 2 products and their delivery timelines. It has been asked for the progress of Phase 2 products to be delivered in bulk, rather than one at time. HSSC are looking to NIPWG to provide a guidance to industry and implementers on when batches will be delivered.

The ECDIS performance standard was approved at MSC108 in May with Route Exchange S-421 and IEC 63173-2 (SECOM communication Standard) becoming mandatory components of the S-100 ECDIS, which necessitates that the IHO review what SECOM means for Hydrographic Office operations. NIPWG has been tasked with leading this work in collaboration with the S-100WG.

* HSSC Action item 5.3A S-122 (HSSC16/60): IC-ENC have a development fund which have agreed to fund a new version, a 2.0 candidate of S-122. A new version aiming to be available late summer/early autumn.
* HSSC Action item 5.3A S-131(HSSC16/62): Encouraged to get the S-131 project going and inviting more participants to input the data.
* HSSC Action item 5.3A S-131(HSSC16/63): YG: Position of IHO has already been submitted to IHMA and NIPWG. If the document is endorsed by NIPWG there is no problem to co-sponsor the document with the other partners but not the custodian of the document.

BvS: IHMA took the advice of YG and it is specifically mentioned in the introduction of the document that the custodian body is the IHMA, the logo of the IHO is now together with all the other supporters.

* HSSC Action item 5.3A IHO Resolution (HSSC16/64): NIPWG has been invited to review all of IHO Resolution 5/2002 and provide a new proposal to HSSC17.

**Action Item 4:** Review resolution 5/2002 and to draft the amended resolution. MK. HSSC17(2025)

**4.1 Review of the S-12x timelines**

* EM: NIPWG has been asked for milestones for the realistic timelines to anticipate the delivery of Edition 2.0 of all the product specifications under NIPWG remit. Industry have approached HSSC Chair and IHO Secretariat asking for bulk delivery of these product specifications. There is a reemphasis on the task group leads to provide these milestones/key performance indicators.
* It was agreed to have a VTC between the NIPWG Chair Team and Task Group Leads to draft a timeline.

**Action Item 5:** Chair Team and Task Group Leads VTC on S-12X timelines. Chair Team/Task Group Leads. 9th July 2024.

**Action Item 6:** Agenda Item at NIPWG11 on the draft S-12X timelines. Chair Team. NIPWG11.

**5. The Necessity for S-100 Based Digital Sailing Directions Input paper by ChartWorld Group (Teledyne)**

* NIPWG noted the update.
* CJ: Reluctant for this proposal, going into the new S-100 world we need to rethink from the old products, old products shouldn’t be directly translated into S-100 a topic which has been discussed in the past.
* EM: This idea is not new; this was discussed in 2008 at a SNPWG meeting in Monaco where it was asked to just make it georeferenced text. It wasn’t view favorably by SNPWG at the time. Echo the comments of CJ, that this would be a distraction to what NIPWG is trying to achieve, however the points on challenges has been noted.

In Canada, the Canadian Coast Guard and Canadian Hydrographic Service is working with IIC Technologies to provide a platform to have continuous discussion on the presentation of these additional products. Early in S-98 discussions it was discovered that a no point is it expected to have all the different products on at the same time, there will always be some kind of grouping of subset of products depending on the situation. What the rules become depends on the research currently being undertaken.

At NIPWG11, planning on a presentation from the Canadian Coast Guard on the progress so far. The IIC tool developed it is understood it is available to others not exclusive to Canada. January 2025 Mariners Workshop in Vancouver, planning on having a workshop using the IIC tool, it is an open forum and you do not have to be Canadian or Canadian Industry to participate.

* KI: The main concern its that it will take years and years for the end user to have a fully digital replacement of existing Sailing Directions, until then what the user is used to, paper books or existing digital Sailing Directions which is not flexible enough to provide a real digital service to the mariner.
* JP: Good points raised about S-98, which because S-98 also included S-38 Annex C which is currently receiving all the attention at the moment. The rest of S-98 has received virtually no attention for review. If there is no input into it, it will be published as it is. Keen for broader S-98 feedback which can be fed into the version that’s going forward later this year.

The key point is the S-98 interoperability, is that the greater part of its use is with the NIPWG products, but if it’s not engineered into the ECDIS at this stage it won’t be when the S-12X Products are released later.

* FMK: Another concern is that most of the current Sailing Directions is text information, the proposal is for a simple layer of georeferenced textual information as it currently is, do producers realize that Sailing Directions need recapturing, encoding, georeferencing to the rules of a variety of S-12X layers, are producers prepared to do this?
* EM: Canada is aware and is working towards it, this may not be the case in all countries, looking to the experience of ENC implementation which may be repeated with S-12X products. It will take time, there will not be full world coverage straight away.

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

**6.1.1 Task Group update**

* JP: Since the last VTC, progress has been facilitated by IC-ENC and resourcing Korea to work on revising the Product Specification. Revisions of the model are bringing it up to date with S-101, Revising UML to the relevant content, and as agreed inserting the OGC modifications that were made during the pilot project. It will also be revised up to S-100 Edition 5.2.0. The model will be passed to Korea who will start preparing the other parts of the Product Specification. In parallel to the work being undertaken by Korea the S-122TG will review the model and provide any final recommendations to Korea.

Revision of S-122 (Draft of the new S-122 at that point) to be presented at NIPWG11.

Worked with Australia and Canada, looking at various modelling constructs within S-122, which may result in some model changes to S-122, following the current revision.

Thanks to Alper for the organization with S-122, a big help that has got S-122 moving forward.

**6.2 S-123 – Marine Radio Services**

**6.2.1 Task Group update**

* NIPWG noted the update.
* EM: Item with update has not yet been discussed within the S-123TG yet, therefore the Task Group is invited to review the proposal. For the other changes NIPWG had a chance to provide feedback, if no feedback was received then consider the changes endorsed by NIPWG, and the to do list for S-123TG to undertake the changes as part of the Product Specification revision.

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

**6.3.1 Development update**

No Update

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

**6.4.1 Task Group update**

* EK: Steady progress is being made on S-127. Completed a review of all change proposals and comments that have been submitted over the years for the current version of the Product Specification. A set of outcomes has been compiled to be implemented following the review. One of the major items that was discovered was a recommendation for the introduction of handling speed restrictions. Serval different agencies have provided input, Canada, Finland, USA. A long discussion took place on how to implement all the constrains and considerations that the individual agencies are requiring for speed restrictions, a way forward has been agreed.

New feature catalogue updates are currently being progressed along with underlying schema updates. The completion of this work is anticipated to be done by NIPWG11.

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

**6.6.1 Project update**

No Update

**7. Next meetings**

* 1. **NIPWG 11: Gdynia, Poland - 24th to 27th September 2024.**
* PP: Logistics information is uploaded onto the new IHO Portal within the NIPWG11 event.

The availability of hotels may be an issue, the city is hosting a film festival during NIPWG11. It is recommended to book hotels as soon as you can.

* EM: The deadline for registration as per the invitation letter is June 30. This is a hard deadline. There is also a limit of 40 people.
* YG: A few who have registered to attend NIPWG11 on the IHO Portal have done so as a temporary participant, don’t forget to also register as a NIPWG member. See IHO Portal instructions [(Link)](https://portal.iho.int/share/files/NqHGl9X0BGTKbx6zrL9Kpu46KMMwKps6/IHO%20Portal%20Presentation%20for%20user/Presentation_IHO%20Porta_user_v.1.pdf)

The IHO issued circular letter 28/24 “*INCREASING PARTICIPATION IN ACTIVITIES OF IHO BODIES*” this is an important survey whose results will be discussed at the next Council meeting in October which may influence how future NIPWG meetings are held (VTC, in person etc).

**Action Item 7:** NIPWG Members to review IHO circular letter 28/24 and encourage response within their respected organisations. All. 31st August 2024

* 1. **NIPWG VTC 03/24**To be confirmed after NIPWG11.
	2. **2nd IALA-IHO S-100 Workshop, 9 – 13 September 2024, Annapolis, USA.**
* Registration is open via the RTCM website. [(Link)](https://rtcm.memberclicks.net/2nd-joint-iho-iala-workshop-on-s-100-200)

**Table of names & initials:**

|  |  |
| --- | --- |
| RM | Raphael Malyankar |
| YG | Yves Guillam |
| EM | Eivind Mong |
| SS | Svein Skjaeveland |
| SE | Stefan Engström |
| JP | Jonathan Pritchard |
| BvS | Ben van Scherpenzeel |
| MK | Mike Kushla |
| CJ | Caroline Johansson |
| KI | Konstantin Ivanov |
| FMK | Friedhelm Moggert-Kägeler |
| EK | Ed Kuwalek |
| PP | Piotr Pasztelan |

**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 |
| RENC | Regional ENC Coordinating Centre |
| NP | Nautical Publication |
| DCEG | Data Classification and Encoding Guide |
| ENDS | Electronic Navigational Data Service |
| PS | Product Specification |
| IEC | International Electrotechnical Commission  |
| IEHG | Inland ENC Harmonization Group |
| MASS | Maritime Autonomous Surface Ships |

**Annex A: Action Items**

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| --- | --- | --- | --- | --- |
| **#** | **Action Item** | **Agenda Item** | **Assigned** | **Status** |
| **NIPWG 9, 2022 – Hybrid Meeting** |  |
| 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)~~COMPLETED |
| 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~~COMPLETED |
| 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~~COMPLETED |
| **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)COMPLETED |
| 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 |
| 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)~~COMPLETED |
| 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-10COMPLETED |
| **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)COMPLETED |
| 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 | VTC01-24COMPLETED |
| 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 2024COMPLETED |
| 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)COMPLETED |
| 8 | Task Groups to provide point of contact for S-164 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 availableCOMPLETED |
| 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.COMPLETED |
| 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~~~~VTC02-24~~On Going |
| 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~~~~VTC02-24~~On Going |
| 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~~COMPLETED |
| 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~~COMPLETED |
| 27 | Dedicated S-128 VTC to be held monthly. Strict focus on finalising PS development. | 11.5.2 | All | ~~Starting 3~~~~rd~~ ~~week October~~COMPLETED |
| 28 | Dedicated S-128 VTC on discussion on distribution and use cases.  | 11.5.2 | All | VTC03-23(Dec-23)COMPLETED |
| 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 2023COMPLETED |
| 32 | Review S-128 and find any gaps between Data model and registry. | 11.5.4 | JSC & SJH | VTC03-23(Dec-23)On Going |
| 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 |
| 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 |
| 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)COMPLETED |
| 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)** |
| 3 | NIPWG to provide guidance to IHO on how to use Maritime Resource Names (MRN) in product specifications. | 3.1 | JP | ~~VTC01/24~~On Going |
| 4 | Task groups to provide use cases for Complex Pick Reports to RM & Chair Team | 3.1 | Task Group Leads | ~~VTC01/24~~On Going |
| 5 | NIPWG invited to review the new S-128 data model. | 9.5.1 | All | ~~End of Dec 2023~~On Going |
| 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~~On Going |
| 9 | Agenda Item on DCWG at the 3rd dedicated monthly S-128 VTC. | 9.5.2 | JW/HC | 3rd S-128 VTC19th Dec 2024COMPLETED |
| 11 | S-131PT to work with JSC to start testing the API and GUI. | 9.6.1 | S-131PT & JSC | ~~VTC01/24~~VTC02/24 |
| 12 | S-131PT to contact BvS for API testing. | 9.6.1 | S-131PT & BvS | ~~VTC01/24~~VTC02/24 |
| 15 | BSH work to be included in NIPWG report to HSSC. | 9.4.2 | Chair Team & PS | HSSC16 May 2024COMPLETED |
| **NIPWG VTC-01 (2024)** |
| 1 | NIPWG to review andprovide comments on the proposed Work Plan 2024-2025. | 2.2 | All | 31st March 2024COMPLETED |
| 2 | S-131PT to review paper S-101PT12-06.9 & 9A Structures Over Navigable Water and provide comment if required. | 3.1 | S-131PT | 31st March 2024 |
| 3 | S-101PT to share comments on Association Roles from SevenCs to NIPWG for review. | 3.1 | TR | 31st March 2024COMPLETED |
| 4 | Revised version of the feature catalogue to be shared with NIPWG once testing has been completed. | 9.5.1 | S-128PT | 13th March 2024COMPLETED |
| 5 | VTC to discuss outstanding items within IHMA Guide for Nautical Data. | 9.6.2 | BvS, SR, DL, JP, MK, JSC, SJ, RM, RB, MJ, JS, DZ, SE | 31st March 2024COMPLETED |
| 6 | NIPWG to review the S-100WG paper and supply comments as per the S-100WG letter 1/2024. | 4 | All | 15th March 2024COMPLETED |
| 7 | NIPWG to review comments drafted by the Chair team and to provide comments. | 5.1 | All | 15th March 2024COMPLETED |
| 8 | Task Groups to review S-123’s ‘Key performance indicators’, HSSC16-04.2A and the WEND bulletin report and provide input to Chair Team | 5.2 | All | As Soon As Possible |
| 9 | Impact study to be passed to the S-128 TG for final review | 9.5.2 | All | 15th March 2024COMPLETED |
| 10 | ENDS TG to provide NIPWG two options and a recommendation for HSSC. | 7 | ENDS TG | April 8th 2024COMPLETED |
| 11 | Task Group leads to provide RM status and plans for adding data quality material to each product specification. | 8 | Task Group Leads | 8th March 2024COMPLETED |
| 12 | NIPWG invited to review proposed changes to S-123 PS and to provide feedback to S-123TG. | 9.2.1 | All | 26th April 2024.COMPLETED |
| **NIPWG VTC-02 (2024)** |
| 1 | Chair Team to send reminder to Task Groups for items that need discussion (NIPWG VTC01(2023) Agenda Item 12) | 2.1 | Chair Team | 5th July 2024 |
| 2 | China MSA to submit proposed list changes to NIPWG Chair team. | 6.5.2 | YZ | 28th June 2024COMPLETED |
| 3 | Chair team to review proposed changed and distribute to S-128PT and NIPWG. | 6.5.2 | Chair Team | 2nd July 2024COMPLETED |
| 4 | Review resolution 5/2002 and to draft the amended resolution. | 4 | MK | HSSC17(2025) |
| 5 | Chair Team and Task Group Leads VTC on S-12X timelines. | 4.1 | Chair Team/Task Group Leads | 9th July 2024COMPLETED |
| 6 | Agenda Item at NIPWG11 on the draft S-12X timelines. | 4.1 | Chair Team | NIPWG11 |
| 7 | NIPWG Members to review IHO circular letter 28/24 and encourage response within their respected organisations. | 7 | All | 31st August 2024 |

**Annex B: NIPWG List of Decisions & Action Items Arising from HSSC-16**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **AGENDA****ITEM** | **SUBJECT** | **ACTION****No.** | **ACTIONS****(in bold, action by)** | **TARGET****DATE/EVENT** | **STATUS****(at 30 May 2024)** |
| **5. Reports by HSSC Working Groups and Project Teams** |
| **5.1 S-100 (S-100WG)** |
| 5.1A | S-100 ECDIS Dual Fuel | HSSC16/32 | **HSSC** noted the work in progress by the **S-100WG** supported by **NIPWG**, **TWCWG** and **WENDWG** to prepare amendments to the current version of the Dual Fuel Concept for S-100 ECDIS.**HSSC Chair/S-100WG Chair** to finalize the proposed amendments for submission to **Council**. | **15 July for C-8** |  |
| **5.3** **Nautical Information Provision (NIPWG)** |
| 5.3A | S-100 System Architecture, IMO’s Maritime Services | HSSC16/57(former HSSC15/36, 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-17** | In progress with Canadian Coast Guard and IALA. See Annex B of Doc. HSSC16-05.3A. |
| 5.3A | Maritime Services, e-navigation | HSSC16/58(former HSSC 15/37, …, 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 | Maritime Services, SOLAS, ENDS | HSSC16/59 | To illustrate the ENDS definition and the relationship between S-100 products and IMO Maritime Services and SOLAS Regulations, **HSSC** adopted the ENDS Tree Diagram proposed by **NIPWG** (Annex F) in general.**HSSC Chair** to submit an amendment to the S-100 Roadmap accordingly (Annex 2 or even Annex1 of the Roadmap) | **C-8 (15 July)** | Decision |
| 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** | Now, part of Action HSSC15/36 aboveComplete |
| 5.3A | S-12x | HSSC16/60 | **HSSC** noted the progress made on S-122 – *Marine Protected Areas*, with a focus on navigational aspects as a priority, and the outsourcing for alignment with S-100 Ed. 5.2.0. Progress and plans for other S-12x PS under the remit of NIPWG were also noted. |  |  |
| 5.3A | S-128 | HSSC16/61 | In the case of S-128 – *Catalogue of Nautical Products* (which belongs to the S-100 critical framework in support of Phase I), **HSSC** noted the good progress in the development of Ed.2.0.0. |  |  |
| 5.3A | S-131 | HSSC16/62 | **HSSC** noted the progress made on S-131 – *Marine Harbour Infrastructure*, and the tests in progress (Singapore, Norway, etc.). |  |  |
| 5.3A | S-131 | HSSC16/63 | Regarding the proposed *Guidelines for Harmonized Communication and Electronic Exchange of Nautical Data for Port Calls*, **HSSC** commended **IHMA** and **NIPWG** for the work done so far.**HSSC** noted **HSSC Chair**/**IHO Secretariat** in liaison with **the NIPWG Chair** to contact **IHMA** to discuss a way forward for the process of the Guideline document as pointed out in the report and requested a progress report at the next HSSC meeting. | **July 2024 / HSSC-17** | Decision |
| 5.3A | IHO Resolution | HSSC16/64 | Regarding the proposed change to IHO Resolution 5/2002 to include NP3, HSSC recommended to put this proposal on stand-by, to refine it if appropriate when S-12x PS raise Ed.2.0.0 and to cumulate all changes related to S-100 concept with A-4 as a possible target date for global approval (see also Proposal 8.e/ from the ICE PT and Decision HSSC16/14 above). **HSSC** noted the comment from the US regarding IHO Resolution 5/2002 paragraph 3, changing from slavishly to more appropriate wording. **NIPWG Chair** to submit the revision to reflect this comment at the next HSSC meeting. | **HSSC-17****HSSC-17** |  |
| **7. Decisions of other bodies affecting HSSC** |
| **7.1 IRCC (incl. MSDIWG)** |
| 7.1C7.1F7.1G | S-124, real-time S-100 products, e-Navigation | HSSC16/96 | **HSSC** thanked **Germany** for raising the awareness of the IHO on data dissemination issues and the open questions related to e-navigation affecting potential S-100 “real-time” products (S-124, but also S-101, S-104, S-111, S-102, S-129, S-411, S-412..), as well as the presentation of procedures in force between IMO and ITU.**HSSC** tasked **NIPWG (lead)/S-100WG** in liaison with **WWNWS** to consider the open questions raised by **Germany** on this matter and to recommend a way forward at their next meeting and invited **Germany** to consider the possibility of inviting additional experts (IMO, ITU…) present at this meeting.**HSSC Chair** and **NIPWG Chair** to consider liaising on this issue prior to the Council meeting, if appropriate. | **NIPWG-11****(Poland), then HSSC-17****1 October 2024** |  |

**Annex C: Agenda**

|  |  |  |  |
| --- | --- | --- | --- |
| **Agenda Item** | **Topic** | **Presenter** | **Item Time** |
| **1.0** | **Welcome** | Chair | 00:05 |
| **2.0** | **Review of Action Items** |  |  |
| **2.1** | **Review of NIPWG action items** | James Weston | 00:30 |
| **3.0** | **Review of other Working Group reports** |  |  |
| **3.1** | **Update on IMO Expert Group on Data Harmonization (EGDH)** | Stefan Engström | 00:05 |
| **4.0** | **HSSC 16 outcomes** | Eivind Mong | 00:15 |
| **4.1** | **Review of the S-12x timelines** | Eivind Mong | 00:15 |
| **5.0** | **The Necessity for S-100 Based Digital Sailing Directions Input paper by ChartWorld Group (Teledyne)** | Konstantin Ivanov | 00:20 |
| **6.0** | **Product Specification updates** |  |  |
| **6.1** | **S-122 – Marine Protected Areas** |  |  |
| 6.1.1 | Task Group update | Jonathan Pritchard | 00:05 |
| **6.2** | **S-123 – Marine Radio Services** |  |  |
| 6.2.1 | Task Group update | Shwu-Jing Chang | 00:05 |
| **6.3** | **S-125 – Marine Aids to Navigation** |  |  |
| 6.3.1 | Development update | Dr Sewoong Oh | 00:05 |
| **6.4** | **S-127 – Marine Traffic Management** |  |  |
| 6.4.1 | Task Group update | Ed Kuwalek | 00:05 |
| **6.5** | **S-128 – Catalogue of Nautical Products** |  |  |
| 6.5.1 | S-128 Test Bed update | SeongHee Park | 00:15 |
| 6.5.2 | Proposal for Correcting Errors and Omissions in S-128 1.2.0 Version | Yilu Zhong | 00:10 |
| **6.6** | **S-131 – Marine Harbour Infrastructure** |  |  |
| 6.6.1 | Project update | Sarah Rahr | 00:10 |
| **7.0** | **Next meetings** | Chair | 00:05 |
| **7.1** | NIPWG 11: 24th to 27th September 2024. Gdynia, Poland | Piotr Pasztelan | 00:05 |
| **7.2** | Next VTC: XX Dec 2024 |  |  |
| **7.3** | 2nd IALA-IHO S-100 Workshop, 9th to 13th September 2024, Annapolis, USA | Dave Lewald | 00:05 |

**Annex D: List of Attendees**

|  |
| --- |
| **Registered Attendees** |
| **Name** | **Country** | **Organization / Company** | **Y/N** |
| **IHO MEMBER STATES** |
| Alper CELEBI | Australia | Australian Hydrographic Office | Y |
| Vitor ROMANO | Brazil | DIRETORIA DE HIDROGRAFIA E NAVEGAÇÃO (DHN, Directorate of Hydrography and Navigation | Y |
| Eivind MONG | Canada | Canadian Coast Guard - Chair | Y |
| Yilu ZHONG | China | MARITIME SAFETY ADMINISTRATION (MSA) | Y |
| Yue JIANG | China | MARITIME SAFETY ADMINISTRATION (MSA) | Y |
| Yuxiao LYU | China | MARITIME SAFETY ADMINISTRATION (MSA) | Y |
| Jen Søe CHRISTIANSEN | Denmark | Danish Geodata Agency/Geodatastyrelsen (GST) | Y |
| Roderick BERA | France | Service Hydrographique et Oceanographique de la Marine (SHOM) | Y |
| Philipp SCHWEDAS | Germany | Bundesamt für Seeschifffaahrt & Hydrographie (BSH) | Y |
| Elena ARMANINO | Italy | Istituto Idrografico Della Marina | Y |
| Herman Schouten van der Velden  | Netherlands | Hydrographic Service - Royal Netherlands Navy (NLHO) | Y |
| Matilde Skæveland SKÅR | Norway | Norwegian Hydrographic Service | Y |
| John Morten KLINGSHEIM | Norway | Norwegian Coastal Administration | Y |
| Piotr PASZTELAN | Poland | Hydrographic Office of the Polish Navy | Y |
| Konrad ANDULA | Poland | Hydrographic Office of the Polish Navy |  |
| Caroline JOHANSSON | Sweden | SJOFARTSVERKET (SWEDISH MARITIME ADMINISTRATION)  | Y |
| Christopher GILL | UK | UK Hydrographic Office | N |
| James WESTON | UK | UK Hydrographic Office (UKHO) - Secretary | Y |
| Marcy KLIMEK | UK | UK Hydrographic Office (UKHO) | Y |
| Michael KUSHLA | USA | National Geospatial-Intelligence Agency (NGA) | N |
| Amilynn ADAMS | USA | United States Coast Guard (USCG) | Y |
| David LEWALD | USA | US Coast Guard | Y |
| **INDUSTRY & TECHNICAL EXPERTS** |
| Ben VAN SCHERPENZEEL  |  | International Harbour Masters Association (IHMA) | Y |
| Raphael MALYANKAR |   | Portolan Sciences | Y |
| Ed KUWALEK |   | IIC Technologies | Y |
| Svein SKJAEVELAND |   | PRIMAR | Y |
| Hugh ASTLE |   | Teledyne Geospatial | Y |
| Yves GUILLAM |   | International Hydrographic Office (IHO) | Y |
| SeongHee Park |   | Korea Research Institute of Ships & Ocean Engineering (KRISO) | Y |
| Shwu-Jing CHANG |   | National Taiwan Ocean University (NTOU) | Y |
| FriedhelmMOGGERT-KÄGELER |  | SevenCs | Y |
| Konstantin IVANOV |  | Chartworld | Y |
|  |  |  |  |
| **Non Registered Attendees** |
| **Name** | **Country** | **Organization / Company** | **Y/N** |
| **IHO MEMBER STATES** |
| Robin JEFFERIES | Canada | Canadian Coast Guard | Y |
| Iji KIM | Germany | Bundesamt für Seeschifffaahrt & Hydrographie (BSH) | Y |
| Stefan ENGSTRÖM | Finland | Finnish Transport Agency Hydrographic Office | Y |
| Tony van Maren | Netherlands | Hydrographic Service - Royal Netherlands Navy (NLHO) | Y |
| Tetsuichiro YABUKI | Japan | Japan Coast Guard (JCG) | Y |
| Unknown | India | Indian Naval Hydrographic Office | Y |
| **INDUSTRY & TECHNICAL EXPERTS** |
| Virgil ZETTERLIND |   | Anthropocene Institute | Y |
| Stelios CONTARINIS |  | HARTIS Integrated Nautical Services Ltd | Y |
| Jonathan PRITCHARD |   | IIC Technologies | Y |

**Annex E: Time Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Agenda Item** | **Topic** | **Presenter** | **Item Time** |
| **1.0** | **Welcome** | Chair | 00:05 |
| **2.0** | **Review of Action Items** |  |  |
| **2.1** | **Review of NIPWG action items** | James Weston | 00:30 |
| **3.0** | **Review of other Working Group reports** |  |  |
| **3.1** | **Update on IMO Expert Group on Data Harmonization (EGDH)** | Stefan Engström | 00:05 |
| **6.5** | **S-128 – Catalogue of Nautical Products** |  |  |
| 6.5.1 | S-128 Test Bed update | SeongHee Park | 00:15 |
| 6.5.2 | Proposal for Correcting Errors and Omissions in S-128 1.2.0 Version | Yilu Zhong | 00:10 |
| **4.0** | **HSSC 16 outcomes** | Eivind Mong | 00:15 |
| **4.1** | **Review of the S-12x timelines** | Eivind Mong | 00:15 |
| **6.5** | **S-128 – Catalogue of Nautical Products** |  |  |
| 6.5.1 | S-128 Test Bed update | SeongHee Park | 00:15 |
| 6.5.2 | Proposal for Correcting Errors and Omissions in S-128 1.2.0 Version | Yilu Zhong | 00:10 |
| **5.0** | **The Necessity for S-100 Based Digital Sailing Directions Input paper by ChartWorld Group (Teledyne)** | Konstantin Ivanov | 00:20 |
| **6.0** | **Product Specification updates** |  |  |
| **6.1** | **S-122 – Marine Protected Areas** |  |  |
| 6.1.1 | Task Group update | Jonathan Pritchard | 00:05 |
| **6.2** | **S-123 – Marine Radio Services** |  |  |
| 6.2.1 | Task Group update | Shwu-Jing Chang | 00:05 |
| **6.4** | **S-127 – Marine Traffic Management** |  |  |
| 6.4.1 | Task Group update | Ed Kuwalek | 00:05 |
| **7.0** | **Next meetings** | Chair | 00:05 |
| **7.1** | NIPWG 11: 24th to 27th September 2024. Gdynia, Poland | Piotr Pasztelan | 00:05 |
| **7.2** | Next VTC: XX Dec 2024 |  |  |
| **7.3** | 2nd IALA-IHO S-100 Workshop, 9th to 13th September 2024, Annapolis, USA | Dave Lewald | 00:05 |