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

**7th June 2022 – VTC, Worldwide**

1. **Opening and administrative arrangements**
   1. **Welcome and opening remarks**

* Chair opened the NIPWG VTC and by welcoming new and returning members

1. **Introductions**

* All.

1. **Adopting Agenda**

* All agreed.

1. **Updated on outstanding action items**

* See annex B
* HSSC 5.3 notes:
  + 14/46: EGDH, coming up with a lot of terms which overlap/duplicate what IHO has in dictionary/registry; need to work more closely with them
  + 14/48: Timeline requested by end of June (strict deadline) (Dr Seewoong Oh)
  + 14/50: Need to come up with a plan for how to do this
  + 14/51: S-128 approved to go to edition 1
    - Make a human readable, then human/machine readable, catalogue
    - All, please start testing
    - **SS:** Primar had its strategic and financial working group meeting; positive outcome and are considering testing S-128 – need to deliver a full project proposal by sept 2022, to start testing early 2023. **SS** needs ability to source input/consultation/discussion from working group members to best prepare a project proposal.

1. **S-123 – Marine Radio Services – Task group update**

Update from S-123 Task Group – Bridget Gagné

* **BG:** S-123 presentation (*Available on webpage*)
* **HP:** Area A3 is specific to each service provider, not a global coverage.
* **RM:** Should potentially remove ‘(in practice this means Inmarsat…)’

**ACTION.** All NIPWG members requested to comment on what types of communication have not yet been covered by the S-123 enumerations (can be found on presentation). All

1. **S-131 – Marine Harbour Infrastructure – Project update**

Update on S-131 Project submission to IHO Lab – Charline Giffard / Chair

* **BvS:** Would be beneficial to include original avanti ports
* **EM:** Discuss with Charline if more ports would like to be included
* **S-JC:** Initial participating ports: Port of Rotterdam, Port of Montreal, Port of Halifax, Port of Stavanger, Port of Singapore, Port of Kristiansand, and some ports on the Island of Taiwan.

1. **S-131 – Marine Harbour Infrastructure – Product specification update**

Update on S-131 Project Specification – Raphael Malyankar

* **RM:** S-131 Update presentation (*Available on webpage)*
* **EM: May** need another task group meeting to discuss definitions, as these link with IMO compendium etc.

**ACTION.** Feedback requested by Raphael. All

**ACTION.** Product spec/original model team (Raphael, Ben, …) meeting to be planned in soon. Outcome of meeting to be reported back to NIPWG Chair team.

1. **S-125 – Marine Aids to Navigation (AtoN)**

Product specification update – Sewoong Oh (KRISO)

* **SO:** Presentation *(available on webpage)*

**ACTION.** The actual intent for S-125 needs to be specifically highlighted and presented to HSSC as part of outstanding HSSC actions placed on NIPWG.

1. **S-128 – Catalogue of Nautical Products**

Product specification update – Izzy Kim/KHOA

* **IK:** Presentation *(available on webpage:)*
* **EM:** Importance of S-128 has gone from Medium to V. High. ECDIS won’t be able to manage S-100 products without it
* **YG:** S-128 is a key component for the S-100 development. No additional guidelines given for WEND principle yet. Thanks to the ed.1, with support from industry partners, during the testing phase, we appear to be on the right track.
* **IK:** New scope and definition can be completed by end of following week, if those who are interested makes themselves known then they can be added.

**ACTION.** Initial VTC to be planned in for August. Anyone interested in participating in S-128 task group please contact Izzy Kim **by 17th June**. All

1. **Review outstanding NIPWG actions**

* Successfully reviewed. Completed actions removed.

1. **Any other business**
   1. Cooperation with IMO FAL committee

* **EM:** Key component will be harmonizing definitions. IHO also have definitions and time stamps etc. but they must all work together.
* **MF**: Looked into Datasets, and datasets already available for S-131. Were waiting for final submission.
* Next expert group meeting Oct 24-28, in person. 9-5 in IMO HQs. Deadlines for submission is 7th October 2022.
* **EM:** All of NIPWG members will be kept informed.

**ACTION.** Follow up with a submission to progress previous proposal given to expert groups. Cooperate with Martina (Q3 2022). Chair Team

1. **Next meetings**
   1. **NIPWG9 – Brazil Update**

* **GP**: No additional information from that sent out originally. VTC will also be hosted by Brazil HO.
* Reminder! In-person registration by **13th June 2022**.

**Meeting ends: 13:05 UTC**

**Table of names & initials:**

|  |  |
| --- | --- |
| SS | Svein SKJAEVELAND |
| BG | Bridget GAGNÉ |
| HP | Hannu PEIPONEN |
| RM | Raphael MALYANKAR |
| BvS | Ben van Scherpenzeel |
| EM | Eivind MONG |
| S-JC | Shwu-Jing CHANG |
| SO | Sewoong OH |
| IK | Iji (Izzy) KIM |
| YG | Yves GUILLAM |
| MF | Martina FONTANERT |
| GP | Guilherme PONTES |

**Table of Acronyms:**

|  |  |
| --- | --- |
| EGDH | Expert Group on Data Harmonization |
| HSSC | Hydrographic Services and Standards Committee |
| OGC | Open Geospatial Consortium |
| WEND | Worldwide ENC Database |
| FAL | Facilitation Committee |

**Annex A: List of Action Items**

|  |  |  |
| --- | --- | --- |
| **Action Item** | **Assigned** | **Status** |
| **VTC 04/21** | | |
| Action Item 01 - Draft document for S-100 System Architecture for IMO Maritime Service. | Chair, RM, YLF, MS, HP, MK will assist | In progress |
| Action Item 02 - Initiate contact with relevant HSSC WGs and IHMA to review. | Chair and CGL | In progress |
| Action Item 04 - Provide a paper describing how S-201, S-124 and S-125 may work together. | Chair, Vice Chair, DL and possibly CGL | In progress (Mar 30) |
| Action Item 09 - Task group to draft a NIPWG view on the classification of products by 31 Dec 2021. | YLF (lead), HP, RM, Chair, JP, IK, CGL | In progress  By NIPWG 9; Sep 2022 |
| Action Item 11 - Model transferred to Portolan Sciences and version 1.0.0 of PS would be ready by Spring of 2022 taking into consideration of when S-100 Ver 5.0.0 is published. | RM | In progress  Target Q3 2022 |
| **VTC 01/22** | | |
| Action Item 02 - S-126. Make task group official. Those who show interest to set-up additional meeting where leader can be assigned. | JC, CGF, JP MS, JS, BS + UKHO (JM to identify who) | In Progress  Chair will organize meeting |
| Action Item 03 - S-127. Invite group to provide data samples of bridges and locks, which have communication requirements for safe passage either under the bridge or through the lock. | All | In Progress |
| **VTC 02/22** | | |
| Action Item 01 - S-123. All NIPWG members requested to comment on what types of communication have not yet been covered by the S-123 enumerations (can be found on presentation) by **31st July 2022** | All |  |
| Action item 02 - S-131. Feedback requested by Raphael. | All |  |
| Action item 03 - S-131. Product spec/original model team (Raphael, Ben, …) meeting to be planned in soon. Outcome of meeting to be reported back to the NIPWG Chair Team. | Chair team |  |
| Action item 04 - S-125. The actual intent for S-125 needs to be specifically highlighted. |  |  |
| Action item 05 - S-128. Initial VTC to be planned in for August. Anyone interested in participating in S-128 task group please contact Izzy Kim **by 17th June 2022**. | All |  |
| Action item 06 - Follow up with a submission to progress previous proposal given to expert groups. Cooperate with Martina (Q3 2022). | Chair team |  |
| Action item 07 - If planning to attend NIPWG-9 in person, please register by **June 13th 2022**. | All |  |

**Annex B: NIPWG List of Decisions & Action Items Arising from HSSC-14**

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| --- | --- | --- | --- | --- | --- |
| **5.3** **Nautical Information Provision (NIPWG)** | | | | | |
| 5.3A | S-100 System Architecture, IMO’s Maritime Services | HSSC14/44  (former 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-15** | In progress with Canadian Coast Guard. |
| 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** |  |
| 5.3A | Maritime Services, e-navigation | HSSC14/46  (former 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** |  |
| 5.3A | Scale Dependent (SD)/Scale Independent (SI) | HSSC14/47  (former 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-15** | In progress |
| 5.3A | S-125 | HSSC14/48 | **HSSC** approved the name change for S-125 from “*Navigational Services*” to “*Marine Aids to Navigation (AtoN)”*.  **IHO Secretariat** to change the name on the IHO website accordingly, and leave the content as is.  **HSSC** tasked **NIPWG** in liaison with IALA to provide a timeline for the development of S-125. | **End of June 2022** | Decision |
| 5.3A | S-100 Whole Picture | HSSC14/49  (former 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-15** | In progress |
| 5.3A | S-12x (S-122, S-123, …) | 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. 5.0.0 and the remaining challenges (Portrayal, etc.). | **HSSC-15** |  |
| 5.3B | S-128 | HSSC14/51 | **HSSC** approved the S-128 draft Edition 1.0.0 dated 11 March 2022- *Catalogue of Nautical Products*for implementation and testing.  **NIPWG** to provide amendments to the executive summary of the scope of S-128 for the Registry and the website (S-100 Products Specifications) to the **IHO Secretariat**, when appropriate.  **IHO Secretariat** to issue an IHO CL informing the IHO MS on the publication of Ed.1.0.0 of S-128 and encouraging stakeholders (**Industry partners, RENCs**) on behalf of HSSC to establish S-128 testbeds and share experiences with **NIPWG**. | **End of June 2022** | Decision |
| 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** |  |
| 7.1B | S-124 | HSSC14/53 | **HSSC** noted the progress made by the S-124PT under the WWNWS-SC in the development of S-124.  **HSSC** agreed on the way forward (candidate Ed.1.0.0 to be directly submitted by the WWNWS-SC to HSSC for approval by correspondence). | **November 2022 /HSSC-15** | Decision |
| **7.7 OGC** | | | | | |
| HSSC14/96 | **HSSC** thanked **OGC** for their comprehensive update report and highlights on pilot projects related to IHO/HSSC work items. |  | Decision |  |  |
| HSSC14/97 | **HSSC** invited **OGC** to consider the possibility of reporting on S-122 implementation experimentation (pilot projects) and IGIF Roadmap in Baltic and North Sea to **NIPWG** and **WENDWG** at their next meetings. | **NIPWG-9 / WENDWG-13** |  |  |  |

**Annex C: Agenda**

*Draft agenda v.2*

1. Welcome
2. Introductions
3. Adopting the agenda
4. HSSC 14 actions
5. S-123 task group update
6. S-131 project update
7. S-131 product specification update
8. S-125 product specification update
9. S-128 product specification update
10. Review outstanding NIPWG actions
11. Any other business
    1. Cooperation with IMO FAL committee
12. NIPWG 9 update (F2F sign up reminder)

**Annex D: List of those Registered**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Country** | **Organization / Company** | **Y/N** |
| Guilherme PONTES | Brazil | Directorate of Hydrography & Navigation | Y |
| Charline GIFFARD | Canada | Canadian Hydrographic Service (CHS) | N |
| Eivind MONG | Canada | Canadian Hydrographic Service (CHS) - Chair | Y |
| Bridget GAGNÉ | Canada | Canadian Hydrographic Service (CHS) | Y |
| Jakob CHRISTENSEN | Denmark | Danish Geodata Agency/Geodatastyrelsen (GST) | Y |
| Jen Søe CHRISTIANSEN | Denmark | Danish Geodata Agency/Geodatastyrelsen (GST) | Y |
| Stefan ENGSTRÖM | Finland | Finnish Transport Agency Hydrographic Office | Y |
| Yves LE FRANC | France | Service Hydrographique et Oceanographique de la Marine (SHOM) | N |
| Coralie MONPERT | 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 (IIDM) | Y |
| Matilde SKÅR | Norway | Norwegian Hydrographic Service | Y |
| Iji (Izzy) KIM | Republic of Korea | Korean Hydrographic Oceanographic Agency (KHOA) | Y |
| Miguel Angel  LOBEIRAS DE LA CRUZ | Spain | Instituto Hidrografico de la Marine | Y |
| Ben VAN SCHERPENZEEL | The Netherlands | Port of Rotterdam / International Harbour Master Association | Y |
| Jo MARKS | UK | UK Hydrographic Office (UKHO) | Y |
| Laura HALL-KING | UK | UK Hydrographic Office (UKHO) - Secretary | Y |
| Michael KUSHLA | USA | National Geospatial-Intelligence Agency (NGA) | Y |
| Shwu-Jing CHANG | Taiwan | National Taiwan Ocean University (NTOU) | Y |
| Svein SKJAEVELAND | Norway | PRIMAR | Y |
| Raphael MALYANKAR | USA | Portolan Sciences | Y |
| Hugh ASTLE | Canada | Teledyne CARIS | Y |
| Yves GUILLAM | Monaco | International Hydrographic Office (IHO) | Y |
| Seewong OH | Republic of Korea | Korean Research Institute of Ships & Ocean Engineering (KRISO) | Y |
| Alper CELEBI | Australia | Australian Hydrographic Office | Y |
| Hannu PEIPONEN | Finland | International Electrotechnical Commission (IEC) | Y |
| Yann CORLAY | France | GEOMOD | Y |
| Jonathan PRITCHARD | UK | IIC Technologies | Y |
| Martina FONTANET |  | International Maritime Organization (IMO) | Y |