



IALA POLICY ADVISORY PANEL

REPORT OF THE 49TH SESSION OF THE IALA POLICY ADVISORY PANEL (PAP)

7 - 9 March 2023



EXECUTIVE SUMMARY

The 49th session of PAP was held in person between 7 – 9 March 2023.

Key outcomes included:

- The draft 2023 - 2027 Work Programme.
- A draft input to IMO regarding IALAs activities regarding MASS.
- A draft proposal on an IALA workshop on MASS.
- A proposal for changing the name of the ENAV Committee to the Digital Technology (DTec) Committee

The PAP was also updated on many items including:

- IALAs involvement in the review of the STCW Code
- The AIS document review
- S-200 development
- Maritime Resource Name (MRN)



CONTENTS

| | |
|--|-----------|
| 1. INTRODUCTION | 5 |
| 1.1. Welcome by Secretary-General and Deputy Secretary-General | 5 |
| 1.1.1. Welcome by the Secretary-General..... | 5 |
| 1.1.2. Welcome from the Deputy Secretary-General | 5 |
| 1.2. Approval of agenda..... | 5 |
| 1.3. Apologies and introductions..... | 5 |
| 2. REVIEW OF ACTION ITEMS | 5 |
| 2.1. Review of action items | 5 |
| 3. REVIEW OF INPUT PAPERS..... | 6 |
| 3.1. Review of input papers | 6 |
| 4. REPORTS FROM OTHER BODIES | 6 |
| 4.1. IALA..... | 6 |
| 4.1.1. IALA Council..... | 6 |
| 4.2. IMO | 6 |
| 4.3. IHO | 7 |
| 4.4. ITU..... | 7 |
| 4.5. Digital@Sea..... | 8 |
| 4.6. 3GPP..... | 8 |
| 4.7. ISO..... | 9 |
| 4.8. Other (PIANC, CIRM, IMPA, & IHMA etc.) | 9 |
| 5. PROGRESS REPORTS..... | 10 |
| 5.1. ENAV | 10 |
| 5.2. VTS | 11 |
| 5.3. ENG | 11 |
| 5.4. ARM | 11 |
| 5.5. IMC..... | 11 |
| 5.6. LAP | 11 |
| 5.7. WWA..... | 11 |
| 6. STRATEGY AND POLICY | 11 |
| 6.1. IALA's involvement in MASS | 11 |
| 6.2. AIS documentation review | 12 |
| 6.3. Cyber security | 12 |
| 6.4. S1010 AtoN Planning and Requirements..... | 13 |
| 6.5. S1020 AtoN Design and Delivery | 13 |
| 6.6. S1030 Radionavigation Services | 13 |
| 6.7. S1040 Vessel Traffic Services | 13 |
| 6.7.1. Future VTS | 13 |
| 6.7.2. Discussion Papers | 13 |



CONTENTS

| | | |
|------------|--|-----------|
| 6.8. | S1050 Training and Certification | 14 |
| 6.8.1. | Model courses for STCW | 14 |
| 6.9. | S1060 Digital Communication Technologies | 14 |
| 6.10. | S1070 Information Services | 14 |
| 6.10.1. | IALA S-200 development | 14 |
| 6.10.2. | Maritime Resource Name (MRN) | 14 |
| 6.10.3. | Maritime Services in the context of e-Navigation | 14 |
| 6.11. | IALA standards ed3.0 | 15 |
| 7. | COMMITTEE WORK PROGRAMME AND STRUCTURE | 15 |
| 7.1. | Future committee structure | 15 |
| 7.2. | Committee Work Programme 2018 - 2023 and 2023 – 2027 | 15 |
| 7.3. | Workshops and seminars | 16 |
| 7.3.1. | Workshop on Digital Communication Infrastructure..... | 16 |
| 7.4. | Upcoming events | 16 |
| 7.4.1. | Workshop on AtoN engineering | 16 |
| 7.4.2. | 2 nd Workshop on S-100/200 | 16 |
| 7.4.3. | Workshop on Sustainability | 16 |
| 7.4.4. | Heritage and Culture Seminar | 16 |
| 8. | PUBLICATIONS/OPERATIONS/ADMINISTRATION | 16 |
| 8.1. | IALA NAVGUIDE | 16 |
| 8.2. | IALA Dictionary and questionnaire..... | 16 |
| 8.3. | Communications | 16 |
| 8.4. | Committee facilitation | 17 |
| 8.5. | IALA Style Guide..... | 17 |
| 9. | THE IGO PROJECT | 17 |
| 10. | ANY OTHER BUSINESS | 17 |
| 11. | REPORT OF THE MEETING..... | 17 |
| 12. | DATE AND VENUE OF NEXT MEETING | 17 |
| 13. | CLOSING OF MEETING | 17 |
| 14. | LIST OF ANNEXES TO THE REPORT | 17 |



Report of the 49th Session of the IALA Policy Advisory Panel

GENERAL

The 49th session of the Policy Advisory Panel (PAP) was held on 7 – 9 March 2023 in person, with IALA Deputy Secretary-General Omar Frits Eriksson as Chair and Thomas Southall as Secretary.

1. INTRODUCTION

1.1. WELCOME BY SECRETARY-GENERAL AND DEPUTY SECRETARY-GENERAL

1.1.1. WELCOME BY THE SECRETARY-GENERAL

The Secretary-General, Francis Zachariae, welcomed PAP members to the meeting. He noted that this would be the last meeting of a subsidiary body for the 2018 – 2023 work programme and congratulated all for the significant results of the committees and panels over that period. This was all achieved under difficult circumstances related to the pandemic.

The Secretary-General then thanked NOGUCHI Hideki and the Japanese Coastguard for a successful workshop on digital maritime communications.

It was noted that the IGO project continues to progress steadily with 16 ratifications and the prospect of more in the coming weeks.

The Secretary-General looked forward to the Heritage seminar, WWA pre-conference event, Conference and General Assembly to mark the beginning of a new four-year work period. He concluded by highlighting the importance of the decisions that PAP make that assist the Council in shaping the future.

1.1.2. WELCOME FROM THE DEPUTY SECRETARY-GENERAL

The Deputy Secretary-General welcomed all members to the 49th session of the PAP.

1.2. APPROVAL OF AGENDA

The agenda (input paper PAP49-1.2.1) was approved. The approved agenda is provided in ANNEX A.

1.3. APOLOGIES AND INTRODUCTIONS

No apologies were received.

2. REVIEW OF ACTION ITEMS

2.1. REVIEW OF ACTION ITEMS

The PAP Secretary, Thomas Southall, highlighted to the following PAP actions as ongoing:

From PAP46:

That the Secretariat amends the structure of the IALA Position on the Development of AtoN Services document, make it comply with the Style Guide and finalize the changes as suggested by the PAP.

That the Secretariat makes a list of all IALA documents with calculations within them for members to use and submit the list to the LAP.

All other actions were reported as completed or superseded.



3. REVIEW OF INPUT PAPERS

3.1. REVIEW OF INPUT PAPERS

Members noted the input paper list (PAP49-3.1.1).

4. REPORTS FROM OTHER BODIES

4.1. IALA

4.1.1. IALA COUNCIL

Minsu Jeon, IALA Technical Operations Manager, reported the record-breaking results from Council 76, which saw 32 recommendations and guidelines approved. In addition, the Council approved the following documents for submission to the General Assembly:

- Draft Strategic Vision (C76-8.1.1.2)
- Amendment to the Constitution (C76-10.1.2.1)
- Revised R1001 Ed2.0 Maritime Buoyage System (C76-10.3.2).
- Revised Standards Ed2.0 S1010 to S1070 (C76-14.2.3.1 - C76-14.2.3.7)

The Council approved a proposal for the 2nd IHO IALA workshop on S-100/200 to be held in 2024 in Annapolis, USA.

In addition, the Council chose the Cap Spartel lighthouse in Morocco as the Heritage Lighthouse of the Year 2023, following their decision to modify the process of selecting the Lighthouse of the Year by moving the selection session from the latter half of the year to the former half.

4.2. IMO

Minsu Jeon reported relevant results from IMO meetings since the last PAP meeting starting with MSC106 and IMO ITU EG 18. At the 106th Session of MSC the MASS WG and CG met and discussed the draft MASS Code which is expected to be adopted in 2028. A joint MSC-LEG-FAL working group has been established to discuss MASS and will meet for the second time in April 2023. Other results from MSC106 included:

- Recognition of the BeiDou Message Service System for use in the GMDSS;
- Agreement for a new output to review of the appropriateness and effectiveness of SOLAS IV/5 (provision of radiocommunication service) for NCSR; and
- Approval of Resolution MSC.530(106) – Performance standards for electronic chart display and information systems (ECDIS).

The IMO ITU EG 18 agreed the draft IMO position on WRC-23 agenda item 10, which included a draft IMO position on digital VHF voice and draft IMO position on VDES R-Mode. IALA participant Michael Hoppe made a presentation to the group regarding R-Mode which was well received. The PAP noted IALA's position as laid out in IALA Circular Letter 2023/04 which encourages members to support this position at WRC-23.

Secondly the group considered matters related to the revision of recommendation ITU-R M.1371-5. They also noted IALA workshop on digital maritime communication.

Other matter included:

- Assignment of manufacturer IDs;
- Wireless power transmission;
- Use of Class D DSC VHF radios as coast stations;



- MMSI-encoding of EPIRBs carried on craft associated with a parent ship; and
- Personal Locating Beacon PLB-AIS.

At NCSR 10, to be held 10-19 May 2023, IALA have submitted a number of input papers, they are:

- NCSR 10-21 - Amendments to the Guidance to the Auditor's Manual for the IMO Member State Audit Scheme (IALA);
- NCSR 10-7 - Harmonization of identifiers using maritime resource names (IALA);
- NCSR 10-7-1 - Proposals for new and updated Maritime Services descriptions (IALA);
- NCSR 10-INF.2 - New revision of IALA Guideline G1117 on VHF Data Exchange System (VDES) Overview (IALA); and
- Information paper on the result of IALA MARCOM workshop, Japan, 2023.

IALA intends to provide a presentation introducing the MRN concept to IMO.

MSC 107, to be held 31 May to 9 June 2023, IALA will submit an information paper on IALA's activities on MASS.

The PAP noted the reports and requested that HTW be added to the reports and that IALA is represented at the meetings in order to contribute to the work on the revision of STCW, with the aim of including relevant AtoN elements within the Code.

Action item:

That the Secretariat arrange for representation at IMO meetings in order to contribute to the revision of the Maritime Services, STCW code, and other relevant tasks and subsequently report back to the upcoming PAP.

4.3. IHO

Minsu Jeon, reported that the collaboration with IHO is very healthy and regular. The two organisations collaborate in many forums on topics such as:

- Portrayal of AtoN features
- Terms and definitions of AtoN related issues
- IHO GI Registry
- S-124/125 Technical service
- S-125/201 Aids to Navigation information
- S-200 testbed and trials
- S-131 Marine Harbour infrastructure

The PAP noted that S-100 ECDIS will be legal to use after 1 January 2026 and from 1 January 2029 new systems must comply with the new IMO Resolution on ECDIS Performance Standards (MSC.530(106)).

4.4. ITU

The PAP noted Minsu Jeon's report that a number of topics were discussed at ITU-R WP5B Meeting, held on 14 to 25 November 2022, including:

- WRC-23, agenda item 1.11: WP 5B finalized the draft CPM text.
- ITU-R M.493-15 – "DSC system for use in the maritime mobile service"
- ITU-R M.541-10 – "Operational procedures for the use of DSC equipment in the maritime mobile service".

- ITU-R M.1371-5 – "Technical characteristics for an automatic identification system using time division multiple access in the VHF maritime mobile frequency band"
- ITU-R M.2010-1 – "Characteristics of a digital system, named Navigational Data for broadcasting maritime safety and security related information from shore-to-ship in the 500 kHz band".
- ITU-R M.2135-0 – "Technical characteristics of AMRD operating in the frequency band 156-162.05 MHz"
- Draft new Report ITU-R M.[LED EMI] – "Conditions for the protection of radio receivers installed onboard vessels against electromagnetic interference from LED lighting systems and other unintended sources"
- Draft new Report ITU-R M.[DIGITAL-VOICE] – "Digital voice communication in the VHF maritime band"

4.5. DIGITAL@SEA

Minsu Jeon reported that the dates for the upcoming Digital@Sea Conferences are:

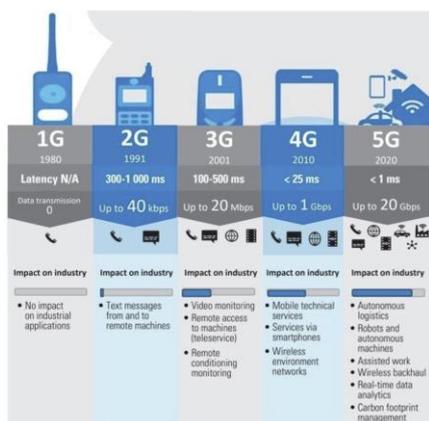
- Digital@Sea North-America on 18 - 19 April 2023 in Montreal, Canada
- Digital@Sea Asia Pacific and Capacity Building workshop on 12 - 15 September 2023 in Korea
- Digital@Sea International in 2024 in Copenhagen, Denmark

It is expected to have more news on Digital@Sea Clusters from Republic of Korea Ministry of Oceans and Fisheries in September 2023.

Dave Lewald, ARM Vice-chair reported that the program for the North American conference was set, and all were looking forward to an informative event.

4.6. 3GPP

The PAP noted that IALA maintains a strong relationship with 3GPP. 3GPP now regularly attends the ENAV Committee. Minsu Jeon reported on the progress of connectivity over the past 40 years, including the coming advance to 6G, as depicted in the diagram below:



6G Fully connected world
ITU-R WP5D IMT for 2030 and beyond (June 2023)
Vision and requirements

- Power consumption
- Space communication
- ??

3GPP is actively seeking suggestions from IALA as a maritime vertical for 5G and 6G use cases. Recognizing the importance of this opportunity, PAP agreed to initiate a new task for the 2023-2027 timeframe to contribute to the development of 3GPP mobile communication standards, focusing on the maritime sector especially Marine Aids to Navigation.

The task will entail formulating requirements for AtoN and reevaluating the current G1179 on Internet of Things. The main goal of this undertaking is to ensure that the maritime industry's distinct needs and perspectives are adequately incorporated into the 3GPP standards.



Action item:

That the Secretariat include a new task on “Contribute to the development of IMT-2030 by formulating user requirements for Marine AtoN” into the work programme 2023-2027.

4.7. ISO

The PAP noted that ISO is working on maritime related standards under the group ISO/TC8 Ships and marine technology. This group have been working on the following areas within the group:

- ISO/TC8/SC1 Maritime Safety
- ISO/TC8/SC2 Marine Environmental Protection
- ISO/TC8/SC3 Piping and Machinery
- ISO/TC8/SC4 Outfitting and Deck Machinery
- ISO/TC8/SC6 Navigation and Ship Operations
- ISO/TC8/SC7 Inland Navigation
- ISO/TC8/SC8 Ship design
- ISO/TC8/SC11 Intermodal and Short Sea Shipping
- ISO/TC8/SC12 Large yachts
- ISO/TC8/SC13 Marine technology
- ISO/TC8 Development of technical standards for administrative and operational data
- ISO/IEC JTC1 SC41 WG7 Maritime, underwater IoT and Digital Twin applications WG

Discussion highlighted that there did not seem to be an overlap on IALAs work and that of ISO and saw great advantages in being able to cite these standards in our work.

4.8. OTHER (PIANC, CIRM, IMPA, & IHMA ETC.)

Thomas Southall, Technical Officer, reported on the African Harbour Masters Committee (AHMC) Seminar, sponsored by IHMA which took place in Tanger 2 -3 March 2023. The AHMC has a wide membership in Africa and was therefore well attended. IALA’s presentation, centred around VTS, risk assessment, IALA documentation, the Academy and IALA's future, was extremely well received.

The IHO were represented by Luigi Sinapi, who was also very appreciative of our recent technical and capacity building collaboration, sends his regards. Industrial members in attendance were MSM, Elman, GISMAN, OSM and Mobilis.

Tom reported that there was a very interesting talk from DNV on a risk assessment tool which includes channel and shore side operations, the tool is called MARCS.

Mark Assaf Chief Human Resources Development, from the UN Conference on Trade and Development (UNCTAD) <https://tft.unctad.org/> also attended. This organization visits ports where the need is greatest and gives general maritime and port operations training. After a few discussions it seems there is fairly fertile ground for collaboration on training and capacity building.

PAP was also informed on changes of responsible persons within CIRM, Richard Doherty, and IMPA, Matthew Williams.

5. PROGRESS REPORTS

5.1. ENAV

NOGUCHI Hideki, Chair ENAV, reported that during the 30th meeting of the ENAV Committee it was decided to hold an extraordinary meeting of ENAV in the IALA HQ starting on the 30 January to keep the momentum on a number of very relevant matters in the scope of ENAV.

The extraordinary meeting was held from 30 January to 9 February 2023; chaired by Hideki Noguchi and vice-chaired by Jorge Arroyo. The Secretary for the meeting was Jaime Alvarez.

Key highlights:

- the ENAV Committee concluded a liaison note to both WRC-23 and the Conference Preparatory Meeting on the draft IALA Position on WRC-23 Agenda item 10 supporting the retention of agenda item 2.10 of Resolution 812 (WRC-19) containing the preliminary agenda for WRC-27. The intention is to consider improving the utilization of the VHF maritime frequencies in Appendix 18, in accordance with Resolution 363 (WRC-19), which may need to be considered and amended to:
 - providing a means to accommodate digital voice communications in the VHF maritime mobile band;
 - providing a radionavigation allocation in Article 5 of the Radio Regulations for VDES frequencies under Appendix 18 footnotes w) and z) for R-Mode to support resilient position, navigation and timing.
- the ENAV Committee concluded a liaison note to ENG committee on the New Technology Review Summary table. Based on the comments from the ENG Committee, the summary table has been reviewed and revised, specifically:
 - Inclusion of month and year for the commencement / completion of the review in addition to the ENAV meeting reference.
 - Addition of a comments column which includes text around the outcomes of the review.
 - Creation of a cover page for the summary table.
 - Liaison for LAP regarding a caveat to include with the summary table.
- the ENAV Committee concluded a liaison note to LAP to consider the Emerging Technologies - Candidate Technology Tracker and provide a suitable approach for a caveat to be included in the table. A possible position for such a caveat was proposed in the annex of the liaison note.

The ENAV Chair reported that one member of the ENAV Committee Management Team had asked that IALA changes from two physical meetings per year to one physical and one hybrid. The PAP unanimously agreed that based on the overall feedback of participants that IALA should continue to meet physically twice a year. In addition the PAP noted that there was negative feedback that specifically lamented the lack of attendance from working group chairs, it was reaffirmed that this must not happen in future.

Discussion also highlighted that if a committee did require an additional meeting to progress their work then it was within the chair's power to convene one as long as the specified notice of twelve months in advance is given to members.

The liaison note to PAP from ENAV, PAP49-5.1.1 *LN to all Committees and PAP on New Technology Review (ENAV30-13.2.3)* was discussed. The paper was noted by PAP and discussion highlighted the purpose and process that ENAV go through when identifying future technologies for potential use in AtoN provision. PAP also noted that the reviews were available on IALA File Share, but as that is a working area where every participant could (by mistake or purpose) change or delete any information in those documents, it was emphasized that the reviews be part of the output papers (e.g. working papers) so they are saved and can be traced back in good order.



5.2. VTS

Monica Sundklev, VTS Chair, reported that there had been intersessional meetings on MASS and VTS training. She also highlighted the well attended webinar that raised awareness of the recent release of Model Course C0103-1 and C0103-3. An intersessional meeting on VTS and S-200 will also be held in Ostend between 13 – 15 March 2023.

5.3. ENG

Simon Millyard, ENG Chair, reported that there had been no ENG meeting since PAP48 and therefore nothing to report.

5.4. ARM

Phil Day, ARM Chair, reported that there had been no meeting since PAP48. He highlighted that the ‘glossy’ version of the IALA MBS is currently being developed for distribution following approval at the General Assembly but it was noted that this would not be sent out until after Brazil. A webinar will be planned and copies sent out to organizations such as the IMO and IHO.

5.5. IMC

Malcolm Nicholson, IMC representative, reported that organization for the industrial members exhibition at conference is going well. It was noted that new *Code of Conduct* is a very good document for the Committee and that the ToRs for the IMC had been revised with only incremental changes.

General discussion highlighted that there had been a negative impact on the Racon market following the withdrawal of Tideland. However, following changes in the market it is believed that this has eased the situation. It was noted that the reduction of AtoN suppliers has had an impact on operational decisions, in terms of which measures were used. There is therefore a need to understand the market better to mitigate against operational impact due to either a reduction in providers or the impact on old technologies when new solutions are introduced. The PAP agreed that the industrial members must be engaged, potentially at the Conference exhibition, in order to understand any potential issues and trends that may affect the supply chain, price and availability.

5.6. LAP

Christina Schneider, LAP Chair, reported that there had been no LAP meeting since PAP48 and therefore nothing to report. The LAP Chair encourages National Members to send representatives to the Panel in the future.

5.7. WWA

The Dean of the Academy, Omar Frits-Eriksson, reported that the Academies work was now in full progress following the arrival of Latifa Oumouzoune. He then detailed the training activities that were planned for the near future, which can be found [here](#).

The Dean invited VTS accredited training providers to inform IALA of their training activities so that they could be published on the website.

6. STRATEGY AND POLICY

6.1. IALA'S INVOLVEMENT IN MASS

The leadership team of the MASS Task Force (MTF) attended the meeting to report to the PAP the results of the MTF meeting the previous day. They reported that the draft of the input paper to IMO on IALAs work on MASS and a draft workshop proposal had both been progressed.

The draft workshop goals are:

- Develop a set of validated scenarios for the development of MASS and their impact on Marine Aids to Navigation over the next 5, 10, 15, or 20 years, taking into account the needs and expectations of different stakeholders.
- Identify potential challenges and opportunities for the development of MASS, and develop strategies for addressing these challenges and capitalizing on these opportunities.
- Foster collaboration and information sharing among representatives and stakeholders from shipowners, ports and infrastructure, manufacturers, VTS Competent authorities / service providers, pilots, IHO, and other relevant stakeholders.

The workshop proposal will be submitted to Council for approval. Once the proposal is approved the timing of the workshop will be determined at a later date.

The draft input to IMO MSC 107 on *IALA's contribution toward safe operation of MASS* was reviewed, amended and agreed. PAP noted input papers PAP49-6.1.1 *Liaison note to PAP, MTF and all committees on Implications of MASS* from a VTS Perspective and the annex containing the Discussion Paper on the same subject (PAP49-6.1.1.1) and that the preparations of guidance for VTS providers will begin at VTS54. There requested that a description of the ongoing work by the VTS Committee on the implications of MASS from a VTS perspective is included in the proposed input paper to MSC107 to facilitate consideration of shore-based requirements for managing ship traffic. This was agreed and included in output document PAP49-6.1.2 and it will now be submitted to Council for approval before being sent to IMO.

It was also agreed that the first objective of the task is to address AtoN provision in a MASS world, however, there was also agreement that following this work IALA could create an overarching guideline that would assist coastal States with general MASS issues.

Action item:

That the Secretariat obtain approval from the Council for the outcomes of the MASS workshop, and then submit them to the IMO NCSR and ITU.

That the Secretariat submit the draft input to IMO MSC 107 on IALA's contribution toward safe operation of MASS to Council for approval and when approved, send the document as input to IMO MSC 107.

6.2. AIS DOCUMENTATION REVIEW

The PAP noted PAP49-6.2.1 and 6.2.1.1 liaison note and annex to PAP from ARM on the approach to the AIS document review. PAP noted that the annex included revoked documents but also missed newly approved AIS documents, e.g. within the responsibility of the VTS Committee. Questions also arose on having too broad and large AIS documents where e.g. aids to navigation management and VTS management may not give the same guidance. As this may be determined at a later stage, PAP agreed that the ARM Committee would start coordinating with other committees (and external bodies) to streamline the AIS guidance and bring it up to date. The proposal was endorsed by PAP and will be added to all the committees' task plans with ARM as the lead committee.

Action item:

That the ARM Committee coordinates the review of AIS documentation, that is included in the next work programme, and that the task is added to all committees' task plans.

6.3. CYBER SECURITY

The PAP noted PAP49-6.3.1 liaison note from ARM to PAP on cyber security. Discussion concluded that the PAP endorsed the requests in the liaison note, it is agreed that:

- The committee management teams are requested to explicitly ask the author(s) if cyber security is relevant for the product and if a chapter or paragraph on the topic should be included.

- The committee management teams when reviewing or revising IALA Standards, Recommendations or Guidelines, consider including a chapter or paragraph on the topic of cyber security and call in the assistance from ARM, or an (external) subject matter expert if needed.
- The IALA secretariat is requested to consider updating IALA templates to include standard topics (chapter/paragraph names), including a chapter or paragraph on cyber security/resilience, as a reminder for users of the template.
- The IALA Secretariat determine if output documents from committees may benefit from an (additional) review on cyber security.

Action items:

That the committee management teams are requested to explicitly ask the author(s) if cyber security is relevant for the product and if a chapter or paragraph on the topic should be included.

That the committee management teams when reviewing or revising IALA Standards, Recommendations or Guidelines, consider including a chapter or paragraph on the topic of cyber security and call in the assistance from ARM, or an (external) subject matter expert if needed.

That the IALA secretariat is requested to consider updating IALA templates to include standard topics (chapter/paragraph names), including a chapter or paragraph on cyber security/resilience, as a reminder for users of the template.

That the IALA Secretariat determine if output documents from committees may benefit from an (additional) review on cyber security.

6.4. S1010 ATON PLANNING AND REQUIREMENTS

Nothing to report.

6.5. S1020 ATON DESIGN AND DELIVERY

Nothing to report.

6.6. S1030 RADIONAVIGATION SERVICES

Nothing to report.

6.7. S1040 VESSEL TRAFFIC SERVICES

6.7.1. FUTURE VTS

The PAP noted and thanked the VTS Committee for PAP49-6.7.1.1 *Future VTS LN from VTS to Council FWD to PAP* and annex 6.7.1.2. The VTS Chair encouraged any comment on the paper to be sent as input to the VTS Committee.

6.7.2. DISCUSSION PAPERS

The VTS Chair introduced PAP49-6.7.2 *Input on VTS Discussion Papers* and described that the discussion paper had assisted the VTS Committee in achieving a common understanding of the concerned topics before any work on developing a recommendation or a guideline began. The status of discussion papers within IALA had been questioned at Council 76. Following discussion, it was agreed that as discussion papers are being frequently used internationally and are furthermore supported by both the IALA Constitution and the General Regulations, PAP agreed that discussion papers may be used by the committees for internal developments, but should not be published or sent to Council or if there is need to send outside of the Association to any external body without the approval of Council. It was also agreed that discussion papers must be clearly marked as such to avoid any confusion and an explanation of them could be included in an appropriate document.

Action item:

That the Secretariat considers including an explanatory text of a discussion paper into the IALA Style Guide or any other appropriate guidance.

6.8. S1050 TRAINING AND CERTIFICATION

6.8.1. MODEL COURSES FOR STCW

The PAP considered the need for IALA to be involved in the review and development of STCW with the aim of including relevant aids to navigation elements. It was agreed that IALA should attend IMO HTW to be involved in the work of revising and developing model courses to be used in STCW training. Minsu Jeon highlighted the areas of STCW where AtoN is included in the STCW Code and IMO model courses. See action under section 4.2.

6.9. S1060 DIGITAL COMMUNICATION TECHNOLOGIES

Nothing to report.

6.10. S1070 INFORMATION SERVICES

6.10.1. IALA S-200 DEVELOPMENT

Minsu Jeon provided the background to S-200 product specifications and IALAs role within this work.

The division within IALA of S-200 was noted as below:

| Domain | PS | Title | Developing Committee | Version |
|-------------|-------|------------------------------------|----------------------|---------|
| AtoN | S-201 | AtoN information | ARM | 1.1.0 |
| | S-125 | Maritime Navigational Service | NIPWG (ARM) | |
| Positioning | S-240 | DGNSS almanac | ENG | 1.0.0 |
| | S-245 | eLoran ASF | ENG | 1.0.0 |
| | S-246 | eLoran almanac | ENG | 1.0.0 |
| | S-247 | eLoran reference stations | ENG | 1.0.0 |
| Comms. | S-230 | Application Specific Message (ASM) | ENAV | Planned |
| VTS | S-210 | Inter VTS exchange | VTS | Started |
| | S-211 | Port Call Message | IPCDMC | 1.0.0 |
| | S-212 | VTS digital information service | VTS | 0.6.5 |

The PAP also noted that there would be a field test on S-124/125 service scenario between IHO-Singapore Lab and IALA in April 2023 (Singapore, Canada, Korea).

Minsu Jeon also encouraged members to examine various S-201 test beds that can be found online.

6.10.2. MARITIME RESOURCE NAME (MRN)

Minsu Jeon reminded the PAP that IALA had submitted a paper to NCSR on the principles that surround MRNs and there will also be a presentation on the subject at the next NCSR meeting.

6.10.3. MARITIME SERVICES IN THE CONTEXT OF E-NAVIGATION

Minsu Jeon reported that IALA paper NCSR 9/7/2 *Development of Maritime Services descriptions* was noted at IMO and that a new input paper NCSR 10/7/1 *Proposals for new and updated Maritime Services*



descriptions (MS on VTS and MS on AtoN including PNT) will be discussed at the next meeting. The PAP acknowledged that paper NCSR 10/7/1 would need support from National members. Support would be sought in the form of a circular letter.

Action item:

That the Secretariat sends a circular letter to National members seeking support for NCSR 10/7/1 Proposals for new and updated Maritime Services descriptions at NCSR.

6.11. IALA STANDARDS ED3.0

Minsu Jeon suggested to the PAP that while version 2.0 didn't undergo significant modifications, a complete review and update of the standards from the ground up would be necessary for version 3.0. The review should commence by assessing the scope of the standards as soon as possible to ensure their efficacy. The Secretariat will prepare an input paper for the upcoming PAP meeting. The PAP recognized that proposing such changes during the 1st General Assembly of the IGO would not be advisable, but they could be presented during the 2nd assembly after the new organization has stabilized.

Action item:

That the Secretariat draft and present an input regarding the IALA Standards Ed3.0 at the upcoming PAP meeting.

7. COMMITTEE WORK PROGRAMME AND STRUCTURE

7.1. FUTURE COMMITTEE STRUCTURE

The ENAV Chair introduced PAP49-7.1.1 *Change of name for the ENAV Committee*. This paper made proposals for new names for the ENAV Committee. After discussion it was agreed that it would be proposed to the Council to rename ENAV to the Digital Technology (DTec) Committee. Other than this change it was agreed to keep the current committee structure. The internal structure of a committee is a matter for each committee management team to determine.

Action item:

That the Secretariat prepare an input paper proposing that the ENAV Committee changes its name to the Digital Technology (DTec) Committee.

7.2. COMMITTEE WORK PROGRAMME 2018 - 2023 AND 2023 – 2027

Minsu Jeon informed the PAP of a project to integrate the Work Programme, committee Task Plans, Task Registers and Traffic Lights. This would ease the administrative burden on the management documents of the committee and ensure consistency between them. The concept will be developed further and be discussed at future PAPs. In the meantime, the committees will continue to utilise the individual management documents that are currently in use.

The PAP then discussed the draft 2023 – 2027 Work Programme contained in PAP49-7.2.1. Amendments were made and agreed by all members. The proposals from Chilean Maritime Signalling Service contained in PAP49-7.2.2 were discussed and there were comments on one proposal whether there were any experts in the committees as regards handling explosives. The proposals should be evaluated further within the relevant committee. The Secretariat in conjunction with the committee chairs were tasked to make editorial changes to improve the draft WP, now contained in output document PAP49-7.2.3, and then submit to the Council for approval.

Discussion also highlighted that there may be a potential need to distinguish guidelines into either technical or operational categories in the future.

Action items:



That the Secretariat in conjunction with the committee chairs to make editorial changes to improve the draft 2023 – 2027 Work Programme contained in output document PAP49-7.2.3.

That the Secretariat submit the draft 2023 – 2027 Work Programme as agreed by PAP to the Council for approval.

7.3. WORKSHOPS AND SEMINARS

7.3.1. WORKSHOP ON DIGITAL COMMUNICATION INFRASTRUCTURE

The PAP noted that the report was available on the website on the workshop on digital maritime communication which was held in Tokyo, Japan, 20 to 24 February 2023.

7.4. UPCOMING EVENTS

7.4.1. WORKSHOP ON ATO N ENGINEERING

The workshop on AtoN engineering will take place in Sydney on 14 - 18 October 2024 with the ENG Committee convening the week after also in Australia. The output from this workshop will be the review and updating of all WWA model courses within the ENG remit.

7.4.2. 2ND WORKSHOP ON S-100/200

The Council have approved a proposal for the 2nd IHO IALA workshop on S-100/200 to be held in 2024 in Annapolis, USA.

7.4.3. WORKSHOP ON SUSTAINABILITY

The workshop on sustainability is planned to take place in October 2025 at IALA HQ unless a host nation offers an alternative venue.

7.4.4. HERITAGE AND CULTURE SEMINAR

The PAP noted that this seminar would be held in the two days preceding the IALA Conference in Brazil next year.

8. PUBLICATIONS/OPERATIONS/ADMINISTRATION

8.1. IALA NAVGUIDE

Minsu Jeon reported that there had been minor structural changes to the draft NAVGUIDE, as a result he will circulate the draft out of session and ask for comment.

Action item:

That the Secretariat circulate the draft NAVGUIDE amongst PAP members and ask for comment.

8.2. IALA DICTIONARY AND QUESTIONNAIRE

The PAP discussed the IALA dictionary and questionnaire, and it was noted that in order to progress these work items that terms and definitions would have to be harmonized with IHO in order that IALA can talk with the IHO GI Registry.

8.3. COMMUNICATIONS

It was reported that Audrey Guinault, who is responsible for communications, is progressing with the reforms that she presented at the last session PAP to increase IALAs presence and professionalism in this area.



8.4. COMMITTEE FACILITATION

The PAP noted the survey results from the last committee session. It was noted that there was a preference for physical meetings and an expectation that the committee management team should be present. The Headquarters equipment offering will continue to be reviewed and improved by the Secretariat.

8.5. IALA STYLE GUIDE

There was no new developments to report on this item but it is envisaged that there will be an update to the document before the next PAP meeting.

9. THE IGO PROJECT

See section 1.1.1 Welcome by the Secretary-General.

10. ANY OTHER BUSINESS

IALA event dates will need to be agreed in principle for the first half of 2024. A draft containing proposed meeting dates will be circulated and agreed upon out of session.

Action item:

That the Secretariat circulate a draft proposal for first half 2024 meeting dates to PAP members.

11. REPORT OF THE MEETING

The final report was approved by correspondence.

12. DATE AND VENUE OF NEXT MEETING

PAP50 will be held 5 – 7 September 2023.

13. CLOSING OF MEETING

The Chair thanked all participants for their cooperation and their great work in the committees.

The Secretary-General noted that it was Simon Millyard's, ENG Chair and Phil Day's, ARM Chair, last meeting as chairs. He thanked them both for the skill and diplomacy with which they had served IALA, its members and their committees so gracefully over their tenure. They were both presenting with a gift as a sign of IALAs warm appreciation.

14. LIST OF ANNEXES TO THE REPORT

- 1 Agenda
A copy of the agenda is at ANNEX A.
- 2 Participants
A list of participants is at ANNEX B.
- 3 Input papers
A list of input papers is at ANNEX C.
- 4 Output papers
A list of output papers is at ANNEX D.
- 5 Action items
A list of action items is at ANNEX E.



ANNEX A AGENDA



49th Meeting of the IALA Policy Advisory Panel (PAP49)

The 49th meeting of the Policy Advisory Panel will be held on 07 – 09 March 2023 at IALA HQ. The timings of the meeting are:

Tuesday 07/03/2023 10:00 – 17:00 CEST

Wednesday 08/03/2023 09:00 – 17:00 CEST

Thursday 09/03/2023 09:00 – 17:00 CEST

The objectives of the panel are to:

- Formulate advice for the IALA Council and Secretariat;
- Coordinate the work of the IALA committees to achieve the goals of the Strategic Vision; and
- Monitor and develop work programmes for the committees.

Agenda

1 Introduction

| | | | |
|-----|---|---------|---------|
| 1.1 | Welcome by Secretary-General and Deputy Secretary-General | FZ, OFE | |
| 1.2 | Approval of agenda | OFE | Approve |
| 1.3 | Apologies and introductions | OFE | Note |

2 Review of action items from last meeting

| | | | |
|-----|------------------------|----|------|
| 2.1 | Review of action items | TS | Note |
|-----|------------------------|----|------|

3 Review of input papers

| | | | |
|-----|------------------------|----|------|
| 3.1 | Review of input papers | TS | Note |
|-----|------------------------|----|------|

4 Reports from other bodies

| | | | |
|-------|--|----|------|
| 4.1 | IALA | | |
| 4.1.1 | IALA Council 76 | MJ | Note |
| 4.2 | IMO | MJ | Note |
| 4.3 | IHO | MJ | Note |
| 4.4 | ITU | MJ | Note |
| 4.5 | Digital@Sea initiative | MJ | Note |
| 4.6 | 3GPP | MJ | Note |
| 4.7 | ISO | MJ | Note |
| 4.8 | Other (PIANC, CIRM, IMPA, & IHMA etc.) | | |

5 Progress reports

| | | | |
|-----|------|-----|------|
| 5.1 | ENAV | HN | Note |
| 5.2 | VTS | MS | Note |
| 5.3 | ENG | SM | Note |
| 5.4 | ARM | PD | Note |
| 5.5 | IMC | MN | Note |
| 5.6 | LAP | CS | Note |
| 5.7 | WWA | OFE | Note |

6 Strategy and Policy

| | | | |
|-----|----------------------------|----|---------|
| 6.1 | IALA's involvement in MASS | MJ | Discuss |
| 6.2 | ALS document review | PD | Discuss |
| 6.3 | Cyber security | PD | Discuss |



| | | | |
|---------------------------|--|----|---------|
| 6.4 | S1010 AtoN Planning and Requirements | | |
| 6.5 | S1020 AtoN Design and Delivery | | |
| 6.6 | S1030 Radionavigation Services | | |
| 6.7 | S1040 Vessel Traffic Services | | |
| 6.7.1 | Future VTS | MS | Note |
| 6.8 | S1050 Training and Certification | | |
| 6.8.1 | Model courses for STCW | PD | Discuss |
| 6.9 | S1060 Digital Communication Technologies | | |
| 6.10 | S1070 Information Services | | |
| 6.10.1 | IALA S-200 development | MJ | Discuss |
| 6.10.2 | Maritime Resource Name (MRN) | MJ | Discuss |
| 6.10.3 | Maritime Services in the context of e-Navigation | MJ | Discuss |
| 6.11 | IALA Standards ed3.0 | MJ | Discuss |
| 7 | Committee work programme and structure | | |
| 7.1 | Future committee structure and names | MJ | Approve |
| 7.2 | Committee Work Programme 2023 - 2027 | MJ | Approve |
| 7.3 | Workshops and seminars | | |
| 7.3.1 | Workshop on Digital Communication Infrastructure | HN | Note |
| 7.4 | Upcoming events | | |
| 7.4.1 | Workshop on AtoN engineering | SM | Discuss |
| 7.4.2 | 2 nd Workshop on S-100/200 | PD | Discuss |
| 7.4.3 | Workshop on Sustainability | SM | Discuss |
| 7.4.4 | Heritage Seminar | SM | Discuss |
| 8 | Publications/Operations/Administration | | |
| 8.1 | IALA NAVGUIDE | MJ | Discuss |
| 8.2 | IALA Dictionary and questionnaire | MJ | Discuss |
| 8.3 | Communications | AG | Discuss |
| 8.4 | Committee facilitation and feedback from survey | TS | Discuss |
| 8.5 | IALA Style Guide | TS | Note |
| 9 | The IGO project | FZ | Note |
| 10 | IALA conference and symposium update | AG | Note |
| 11 | Any other business | | |
| 12 | Report of the meeting | | |
| 13 | Date and venue of next meeting | | |
| Closing of meeting | | | |



ANNEX B LIST OF PARTICIPANTS

| | | |
|-------------------------------------|------------|---|
| ARM Committee | Chair | Phil Day phil.day@nlb.org.uk |
| | Vice-chair | R. David Lewald robert.d.lewald@uscg.mil |
| ENAV Committee | Chair | NOGUCHI Hideki hideki.noguchi@gmail.com |
| | Vice-chair | Jorge Arroyo Jorge.Arroyo@uscg.mil |
| ENG Committee | Chair | Simon Millyard simon.millyard@thls.org |
| | Vice-chair | Michel Cousquer Michel.Cousquer@cerema.fr |
| VTS Committee | Chair | Monica Sundklev monica.sundklev@transportstyrelsen.se |
| | Vice-chair | Dirk Eckhoff dirk.eckhoff@wsv.bund.de |
| LAP | Chair | Christina Schneider Christina.Schneider@wsv.bund.de |
| IMC | | Malcolm Nicholson m.nicholson@sealite.com |
| Secretary-General | | Francis Zachariae francis.zachariae@iala-aism.org |
| Deputy Secretary-General | | Omar Frits Eriksson omar.eriksson@iala-aism.org |
| Technical Operations Manager | | Minsu Jeon minsujeon@iala-aism.org |
| Technical Officer | | Thomas Southall tom.southall@iala-aism.org |
| Communications Officer | | Audrey Guinault audrey.guinault@iala-aism.org |



ANNEX D LIST OF INPUT PAPERS

| Meeting | Agenda Item | Input Paper Title | Source |
|---------|-------------|---|------------------|
| PAP49- | 1.2.1 | Provisional Agenda | IALA Secretariat |
| PAP49- | 2.1.1 | Action items | IALA Secretariat |
| PAP49- | 3.1.1 | Input paper list | IALA Secretariat |
| PAP49- | 5.1.1 | LN to all Committees and PAP on New Technology Review (ENAV30-13.2.3) | ENAV30 |
| PAP49- | 6.1.1 | Liaison note to PAP, MTF and all committees on MASS (VTS53-12.2.6) | VTS53 |
| PAP49- | 6.1.1.1 | Discussion paper - Implications of MASS from a VTS Perspective (VTS53-12.2.6.1) | VTS53 |
| PAP49- | 6.2.1 | LN to PAP on the way forward with AIS documentation (ARM16-11.2.5) | ARM16 |
| PAP49- | 6.2.1.1 | Annex IALA AIS related documents (ARM16-11.2.5.1) | ARM16 |
| PAP49- | 6.3.1 | LN from ARM to PAP Cyber Security (ARM16-11.3.3) | ARM16 |
| PAP49- | 6.7.1.1 | Future VTS LN from VTS to Council FWD to PAP (VTS53-12.2.7) | Council |
| PAP49- | 6.7.1.1.1 | Attachment - Future VTS Discussion Paper (VTS53-12.2.7.1) | Council |
| PAP49- | 6.7.2 | Input on VTS Discussion Papers (VTS Chair) | VTS Chair |
| PAP49- | 7.1.1 | Change of name for the ENAV Committee | ENAV Chair |
| PAP49- | 7.1.2 | Future committee structure and names | Secretariat |
| PAP49- | 7.2.1 | IALA committee work programme 2023-2027 | Secretariat |
| PAP49- | 7.2.2 | Work Programme Proposals from Chile | Chile |
| PAP49- | 8.4.1 | Survey Monkey ARM16 | Secretariat |
| PAP49- | 8.4.2 | Survey Monkey ENAV30 | Secretariat |
| PAP49- | 8.4.3 | Survey Monkey ENG16 | Secretariat |
| PAP49- | 8.4.4 | Survey Monkey VTS53 | Secretariat |



ANNEX E LIST OF OUTPUT PAPERS

| Meeting | Agenda Item | OUTPUT PAPERS |
|---------|-------------|--|
| PAP49- | 12.1 | Report of PAP47 |
| PAP49- | 6.1.2 | Draft input to IMO MSC 107 on <i>IALA's contribution toward safe operation of MASS</i> |
| PAP49- | 7.2.3 | Draft 2023 – 2027 Work Programme post-PAP |



ANNEX F ACTION ITEMS

- That the ARM Committee coordinates the review of AIS documentation, that is included in the next work programme, and that the task is added to all committees' task plans..... 12*
- That the committee management teams are requested to explicitly ask the author(s) if cyber security is relevant for the product and if a chapter or paragraph on the topic should be included. 13*
- That the committee management teams when reviewing or revising IALA Standards, Recommendations or Guidelines, consider including a chapter or paragraph on the topic of cyber security and call in the assistance from ARM, or an (external) subject matter expert if needed. .. 13*
- That the Secretariat in conjunction with the committee chairs to make editorial changes to improve the draft 2023 – 2027 Work Programme contained in output document PAP49-7.2.3..... 16*
- That the Secretariat arrange for representation at IMO meetings in order to contribute to the revision of the Maritime Services, STCW code, and other relevant tasks and subsequently report back to the upcoming PAP..... 7*
- That the Secretariat include a new task on “Contribute to the development of IMT-2030 by formulating user requirements for Marine AtoN”into the work programme 2023-2027..... 9*
- That the Secretariat obtain approval from the Council for the outcomes of the MASS workshop, and then submit them to the IMO NCSR and ITU..... 12*
- That the Secretariat submit the draft input to IMO MSC 107 on IALA’s contribution toward safe operation of MASS to Council for approval and when approved, send the document as input to IMO MSC 107. 12*
- That the IALA secretariat is requested to consider updating IALA templates to include standard topics (chapter/paragraph names), including a chapter or paragraph on cyber security/resilience, as a reminder for users of the template. 13*
- That the IALA Secretariat determine if output documents from committees may benefit from an (additional) review on cyber security. 13*
- That the Secretariat considers including an explanatory text of a discussion paper into the IALA Style Guide or any other appropriate guidance. 14*
- That the Secretariat sends a circular letter to National members seeking support for NCSR 10/7/1 Proposals for new and updated Maritime Services descriptions at NCSR..... 15*
- That the Secretariat draft and present an input regarding the IALA Standards Ed3.0 at the upcoming PAP meeting. 15*
- That the Secretariat prepare an input paper proposing that the ENAV Committee changes its name to the Digital Technology (DTec) Committee..... 15*
- That the Secretariat submit the draft 2023 – 2027 Work Programme as agreed by PAP to the Council for approval..... 16*
- That the Secretariat circulate the draft NAVGUIDE amongst PAP members and ask for comment. 16*
- There was no new developments to report on this item but it is envisaged that there will be an update to the document before the next PAP meeting. 17*
- That the Secretariat circulate a draft proposal for first half 2024 meeting dates to PAP members..... 17*

