



IALA POLICY ADVISORY PANEL

REPORT OF THE 42ND SESSION OF THE IALA POLICY ADVISORY PANEL (PAP)

8 - 10 September 2021

EXECUTIVE SUMMARY

The 42nd session of PAP was held virtually over three sessions held between 8 - 10 September 2021.

Key outcomes included:

- The current and future work programmes and proposals for better cross-committee cooperation were discussed. It was agreed that a further PAP session on this topic will be convened in November 2022.
- Consideration of a maritime ICT proposal from the Republic Of Korea.
- The IMO have adopted IALAs input on the IMSAS manual.
- IALA has a new domain in the IHO Portrayal Register.

The PAP were also updated on many items including:

- The status of the IGO process.
- The progress of the MASS Task Force.
- The test standards of maritime receivers.
- Various current projects such as questionnaires, the NAVGUIDE and communications.
- Updates to the new IALA Style Guide and course.



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Report of the 42nd Session of the IALA

Policy Advisory Panel

GENERAL

The 42nd session of the Policy Advisory Panel (PAP) was held on 8 – 10 September 2021 virtually, 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 and expressed his hopes that the next session will be held in person. Francis reported that the IGO project was progressing well with 14 signatures and 3 ratifications by National Members. He looked forward to the discussions on the introduction of the proposed IMO VTS resolution and IALA's 'signature document' the revision of the MBS.

1.1.2. WELCOME FROM THE DEPUTY SECRETARY-GENERAL

The Deputy Secretary-General welcomed all members to the 42nd session of the PAP. He highlighted how positive it was that the Secretariat are now back in the office.

1.2. APPROVAL OF AGENDA

The revised agenda (input paper PAP42-1.2.1) was approved. The approved agenda is provided in ANNEX A.

1.3. APOLOGIES AND INTRODUCTIONS

No apologies were received. The participant list is provided in ANNEX B.

2. REVIEW OF ACTION ITEMS FROM LAST MEETING

2.1. REVIEW OF ACTION ITEMS FROM PAP41 AND EOPAP MAY 2021

The list of action items was reviewed from PAP41 and EOPAP May 2021. PAP noted that most actions were completed; however a number were still ongoing such as the discussions regarding the *Drivers and Trends* document, which is to be discussed in Council, and the Standards due to be submitted to LAP in due course.

3. REVIEW OF INPUT PAPERS

3.1. REVIEW OF INPUT PAPERS TO PAP42

Members noted the input paper list (PAP42-3.1.1). A list of input papers is provided in ANNEX C.

4. REPORTS FROM OTHER BODIES

4.1. IALA

4.1.1. IALA COUNCIL

The 73rd session of the IALA Council was held virtually from 8 to 10 June 2021 by videoconference. Technical Operations Manager, Minsu Jeon, highlighted the approved documents and the PAP noted that there was one document returned to the VTS Committee for further consideration.

General Discussion highlighted that:

- Current drivers and trends document will be reviewed at the 74th session.
- Committee work programmes have been extended to 2018 – 2023 and 2023 – 2027 respectively.
- Webinars on virtual aids to navigation will be held in the next couple of months.
- Cape Byron Lighthouse was proclaimed as the *Lighthouse of the Year 2021*.
- A proposal for an ENG workshop on ERPS was approved to take place virtually in November 2021.

4.2. IMO

Minsu Jeon reported that IMO NCSR8 and IMO MSC 103 have been held since the last PAP session. Highlights that the PAP noted were:

NCSR 8

- The revision of Recommendation ITU-R M.1371-5
- Recognition of the Japanese regional navigation satellite system QZSS as a component of the WWRNS
- Use of public broadband communication and technical standardization for public mobile networks in the context of maritime safety
- Progress on standards development by IEC (NCSR 8/13)
- Report on the monitoring of ECDIS issues by IHO (NCSR 8/13/1)

MSC 103

- IALA submitted the following documents to MSC:
 - MSC 103/20/5 Opening for signature of the Convention on the International Organization for Marine Aids to Navigation (France and IALA)
 - MSC 103/20/9 IMO Member State Audit Scheme (IALA)
- MASS Regulatory Scoping Exercise
- VDES – a proposal for the amendment of SOLAS chapters 4 and 5 was agreed.

4.3. IHO

4.3.1. TECHNICAL COORDINATION MEETING

Minsu Jeon reported that the 5th Session of the IHO IALA Technical Cooperation meeting was held virtually on 27 April 2021 topics including S-100, S-200 updates, GI registry, S-127, S-131, S-124 and S-125. The joint workshop was originally meant to be held in 2020 but due to the COVID situation, the group agreed to postpone the event one more year to 2022. The host, Norway, is still in favour of hosting this event physically and the group underlined that the programme needs to be refined in due course.

IALA WWA will examine the possibility of hosting a kind of training event on S-100/200 and IHO agreed to support the event depending on the time of the event. The next meeting is scheduled for March 2022

The PAP acknowledged how useful and important the joint IHO and IALA meetings have been in progressing committee work.

IHO HSSC has approved an IALA domain to be created in the portrayal register. This will enable IALA to make symbology proposals formally.

4.4. ITU

Minsu Jeon reported that the maritime group of WP5B continued working on the revision of Recommendation ITU-R M.2092-0. It is expected that the preliminary draft revision of Recommendation ITU-R M.2092-0 will be adopted by WP5B and approved by Study Group 5 at the next meeting in November 2021 as there were no technical questions raised anymore. Members of IALA are encouraged to actively support the revision of Rec. ITU-R M.2092 through their national representation at ITU WP 5B.

It was also noted that G1139 maybe updated according to the development at ITU.

A joint IALA/IEC WG Meeting on VDES will be held September 14th 2021, 10:00 to 15:00 UTC and details can be found on the website - <https://events.iala-aism.org/iala-events/iala-iec-wg-on-vdes/>

WP 5B also continued working on the revision of Recommendation ITU-R M.1371-5. WP 5B is of the view that close direct coordination between IALA, CIRM and IMO would assist IMO as the competent body for navigation-related aspects. A reply liaison statement has been received by IALA (input paper 4.4.1.1) proposing a direct coordination between IALA, CIRM and IMO on the revision of Recommendation ITU-R M.1371-5 and is an input to all committees.

The ENAV Committee will consider the liaison statement and provide input on the issues to the next IMO/ITU joint expert group meeting November 1st to 5th 2021. It is expected that the revision of Recommendation ITU-R M.1371-5 will be addressed during that meeting.

Action item:

That the Secretariat attends the next IMO/ITU joint expert group meeting November 1st to 5th 2021.

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

4.5.1. DIGITAL@SEA

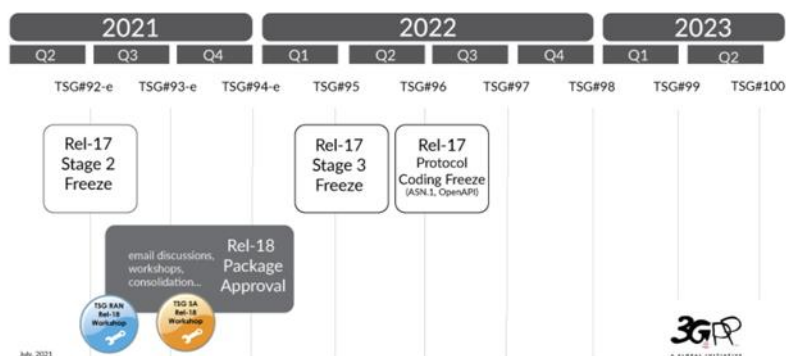
The PAP noted the report of the Digital@Sea Webinar (PAP-4.5.1). Digital@Sea International was postponed to early 2023, Digital@Sea America will be held in January 2022. The Digital@Sea Asia-Pacific is currently underway in parallel to PAP41.

4.5.2. 3GPP

Minsu Jeon presented a timetable of 3GPP developments, and this principally included the next release of the technology no.17 and work on no.18. The main updates are summarized as:

- Release 17
 - 5G URLLC
 - Sidelink for unmanned car
 - NTN-non terrestrial network for maritime, air and vessels
- Release 18
 - Enhancements to Proximity Services
 - Vehicle Mounted Relay (VMR)
 - Enhancements to 5G over satellite
 - Multi-connectivities

The schedule for these updates is captured in the diagram below:



The Secretariat continue to liaise with 3GPP and have invited a representative to join the ENAV Committee where they are proposing to develop the following documents:

- IALA Recommendation on Use of International Mobile Telecommunications (IMT) by AtoN Authorities
- IALA Guideline on integration and use of International Mobile Telecommunications (IMT) technologies by AtoN authorities

The ENAV Committee may also send an input to NCSR9 in June 2022 on IALA 3GPP developments.

5. COORDINATION

5.1. PROGRESS REPORTS

5.1.1. ENAV

The 27th meeting of the ENAV Committee was held virtually from 1 to 26 March 2021; chaired by Hideki Noguchi and vice-chaired by Jorge Arroyo. The Secretary for the meeting was Jaime Alvarez.

There were 134 participant, 28 for the first time, from 33 countries and 8 organisations; and 3 observers.

Key highlights:

- Continued progress on the 2018 – 2022 Work Programme as noted in the ENAV Task Plan.
- Completed revisions to Standard 1060 and 1070 which will go to PAP for final review.
- Completed development of new Guideline on the evaluation of platforms for the provision of maritime services in the context of e-Navigation.
- Completed a liaison note on IMT for the Joint IMO/ITU expert group which the Secretariat will finalise in IMO template format.

Planned intersessional work was:

- ENAV WG2 have forwarded the draft Recommendation and Guideline on developments in MASS from a marine aids to navigation perspective as inputs to PAP and the MASS Task Group for further development as deemed appropriate.
- ENAV WG2 have forwarded the draft Recommendation and Guideline on developments in International Mobile Telecommunications (IMT) (formerly referred to as 3GPP) to Secretariat for further development as deemed appropriate.
- ENAV WG2 commenced a review of the maritime radio communications plan (MRCP). It was agreed that this document will become a manual within the IALA documentation structure.

5.1.2. VTS

The 50th meeting of the VTS Committee was held from 10 – 31 March 2021 virtually with Monica Sundklev as Chair and Dirk Eckhoff as Vice-Chair. The Secretary for the meeting was Thomas Southall.



170 Participants from 33 countries, five Sister organisations participated in VTS50. 41 participants attended for the first time.

Key outputs completed included:

- Guideline on Competencies for Planning and Implementing a VTS
- Revised G1132 on VTS Voice Communications and Phraseology
- G1017 on Assessment for Recognition of Prior Learning in VTS Training
- Revision of various VTS related IALA documentation - editorial alignment in preparation for the new VTS IMO resolution. There is a key focus of VTS51 in order to be ready for the introduction of the IMO resolution.
- G1141 on Operational Procedures for Delivering VTS
- VTS Manual 7.1 – updates

G1110 on Use of Decision Support Tools for VTS Personnel was sent back by Council and will be further developed at VTS51.

The following liaison notes were prepared:

- Liaison Note to ARM and ENAV on Cyber Security
- Liaison Note to ARM regarding ITU matters
- Liaison note to ARM regarding the revision of MBS
- Liaison note to ARM and Secretariat on Maritime Services
- Liaison Note to ARM regarding the Ship Reporting Guideline

The PAP noted with thanks the tremendous volume of intersessional work carried out by the VTS Committee. This work is welcomed but physical meetings remain the primary means of IALA work.

5.1.3. ENG

The 13th meeting of the ENG Committee (ENG13) was held virtually from 22 March to 19 April 2021.

The session was attended by 129 registered participants from 30 countries. 30 participants attended for the first time.

As with other committees, the virtual meeting system worked well and the work plan was progressed.

Key work areas of specific interest to PAP:

- R0101 Rhythmic Characters amended & presented to Council for approval
- An amalgamation of existing documents into a new guideline on Light – Terms of Measurement was started.
- Revision of guideline on Optical Performance.
- Guideline on Surface Colours & colour degradation approved & presented to Council
- Guideline on 3rd Party Quality Control progressed.
- Amalgamation of documents to produce one Guideline on AtoN in Extreme Environmental Conditions progressed
- Progressed Guideline on what constitutes a good marine solar PV panel
- Progressed Guideline on Radar Reflectors
- WWA courses reviewed

- Guideline on Telemetry under review
- Guideline on resilient PNT progressed
- Guideline on the proposed R-Mode technology progressed.
- Guideline on Enhanced Racon Positioning System (ERPS) progressed and Workshop on this topic planned
- Draft Recommendation on provision of GNSS Augmentation DGNSS sent to Council for approval
- Navguide chapters reviewed
- Heritage Lighthouse of the Year nominations proposed to Council
- Heritage section of the IALA website developed by the Secretariat following ENG request

The PAP noted that:

- AtoN Engineering Workshop in Sydney is postponed until further notice
- Heritage workshop planned to run immediately before the General Assembly in Rio in 2023
- ERPS workshop planned for November 2021

Presentations were given on the following topics:

- RTCM report
- SBAS
- Light measurement
- BeiDou remote control & monitoring of AtoN
- MASS & AtoN
- Four season Light Buoy for frozen ports

Simon Millyard, Chair of ENG, introduced a number of changes proposed to *Standard 1020 AtoN Design and Delivery*. These proposals were noted and will be taken into account with the review of the standards via the ENG Committee. Once the committees have provided their final comments at the upcoming sessions, the Secretariat will consolidate them and provide them as input to PAP43 for further discussion. The standards review timeline will be revised to reflect a six month extension to the deadline of this work item.

Following a request from RTCM, the ENG Chair asked if IALA wished to continue working with the organization on developing DGNSS standards. The PAP agreed that owing to a mixed picture of uptake and decommissioning of DGNSS stations, IALA should continue to provide its current guidance but ask industry if they would act on any new standards that were developed.

ENG are due to review the *World Radio Navigation Plan* and wished to clarify if this publication was still required. PAP reaffirmed the value of this document and the ENG Chair will continue the review.

Action item:

That the Secretariat further consolidate the comments on the standards review and input them as revised standards to all committees.

That the Secretariat review the timeline for standard review to reflect a six month extension to the deadline of this work item.

5.1.4. ARM

The 13th Session of the ARM Committee was held virtually from 13 to 28 April 2021 with Phil Day as Chair and Dave Lewald as Vice-Chair. The Secretary for the meeting was Thomas Southall.

94 Participants from 30 countries participated in ARM13. 26 participants attended for the first time.

Key outputs completed included:

- Revised R0143 Provision of Virtual Aids to Navigation (O-143)
- Revised G1081 Provision of Virtual Aids to Navigation
- Revised Guideline G1143 Unique Identifiers for Maritime Resources
- New Guideline on Ship Reporting from a shore-based perspective

The following liaison notes were prepared:

- Liaison note to PAP on MASS – draft ENAV Recommendation and Guideline
- Liaison note to ITU WP 5B TD 73 on Revision of Recommendation ITU-R M.1371-5
- Liaison note to ENG on 3rd party Quality Control
- Liaison note to Secretariat regarding the ITU and IEC on AIS Status Bits
- Liaison note to all committees on the final draft of the IALA MBS
- ARM comments on the revision of IALA standards to PAP

The ARM Chair highlighted the contributions made by Jorge Arroyo and Stefan Bober for assisting the Committee in finalizing Liaison note to ITU WP 5B TD 73 on Revision of Recommendation ITU-R M.1371-5. He added the need for as much time to be given when responding to time restricted issues such as these, in order that all participants can fully understand the technical concepts behind them.

It is hoped that the MBS will be finalized at ARM14 and the committee chairs were asked that all committees provide comments to assist the work.

5.1.5. IMC

IMC representative, Malcolm Nicholson, reported that preparations for the Conference was underway and on track. Discussion included of the current status of the main companies in the AtoN industry.

5.1.6. LAP

Nothing to report due to no LAP session convened since PAP41.

5.1.7. WWA

The World-Wide Academy has continued with its strategy of enlighten, educate and engage throughout the pandemic period. All of the model courses delivered by the Academy have been redeveloped and considerable development has taken place with respect to the distance learning technologies used. Capacity building operations have continued with both online activities as well as the resumption of face-to-face activities in the Lebanon and El Salvador with a gradual increase in missions expected during late 2021. The Academy continues to support the work of the technical committees and is pleased to provide input gained from education and training and capacity building missions.

6. STRATEGY AND POLICY

6.1. STRATEGIC GOALS AND POLICIES

6.1.1. DRIVERS AND TRENDS

The PAP Chair reported to the PAP that there will be a meeting of the Council Strategy Group to discuss the Drivers and Trends Document at the next session of the Council. Discussion concluded that following the publication of the concerning IPCC report on Climate Change which underlines the need for continued focus on the climate change crisis and sustainability. The PAP considered that there maybe a case for a review by the strategy group to ensure it remains high level and effective.

6.1.2. CROSS-COMMITTEE COORDINATION

Minsu Jeon presented input paper PAP42-6.1.2.1 on cross-committee coordination providing an overview of all communications and liaisons on task items from the Work Programme. Discussion also included the following items:

Proposal on Portrayal issues

Monica Sundklev, VTS Chair, introduced input paper *PAP42-6.1.2.2 Draft Proposal on Portrayal Issues*. In consultation with the ARM Chair the paper laid out that:

- Originally the responsibility for G1105 lied within ENAV Committee, but after the committee re-structure, ARM became responsible for G1105. However, the WP has not been changed accordingly.
- ARM focuses on aids to navigation portrayal specifications for chart contents and display aspects of ECDIS and VTS focuses on portrayal issues from the VTS on the shore-side.
- G1105 should be under VTS Committee responsibility.
- Future cooperation on portrayal issues should be made between ARM and VTS.

Following discussion the PAP agreed that:

- G1105 is a management document and more appropriately allocated to ARM as the lead committee. However, all committees are required to coordinate with each other when necessary to develop the document.
- That G1105 should be updated to address items such as product specifications being developed.
- The VTS Committee can proceed with their own VTS portrayal documents as they deem appropriate and can include information from G1105.

Proposal on updating cross-committee procedures

Monica Sundklev, VTS Chair, introduced an input paper on cross-committee procedures (input paper PAP42-6.1.2.3). PAP agreed that the proposed way forward within the paper was positive and that a face to face meeting to discuss them further would be beneficial, however, an online EOPAP would be more appropriate in November over two days. The proposals (abridged) were as follows:

- PAP should discuss and agree on a way forward for relevant cross-committee tasks.
- PAP should, preferably before the work period starts, review the work programme in detail in order to mark committee task lead and if any cross-committee coordination is relevant.
- PAP should consider moving “PAP Cross-Committee Coordination” from PAP agenda item “6. Strategy and Policy” to “5. Coordination”.
- PAP should consider renaming the infographic sheet on cross-committee coordination, to cross-committee communications.
- PAP should consider including a section on cross-committee work in IALA Basic Document (Rules and Procedures – Terms of Reference Committees).

Action item:

That the Secretariat arrange an additional PAP in November to discuss cross-committee facilitation.

That the Secretariat submits input papers PAP42-6.1.2.3, 6.1.2.3.1 and 6.1.2.3.2 to the proposed PAP in November 2021.

6.1.3. IALA POSITION ON THE DEVELOPMENT OF AtoN SERVICES

The Chair recalled the *IALA Position on the Development of AtoN Services* document. The PAP agreed to the changes to the section regarding radio navigation services as laid out in input paper PAP42-4.1.1.2 from the ENG Committee.

The PAP agreed that the section 5.1.1 on Satellite Positioning and Timing should include back-up PNT but should be careful when highlighting specific technologies that may be no longer widely used.

6.1.4. REVISION OF IALA STANDARDS

The PAP noted the revised timeline and process for updating the IALA Standards. Minsu Jeon highlighted the changes so far and the PAP agreed that these updated standards would be forwarded to LAP and all committees.

Action item:

That the Secretariat forwards updated versions of the standards to LAP and all committees.

6.1.5. IALA'S INVOLVEMENT IN MASS

The PAP noted the contents of input paper PAP42-6.1.5.3. Maarten Berrovetts, Chair of the MASS Task Force (MTF) reported to the PAP the proceedings of the previous the MASS TF meeting held in August 2021. Presentations were given by the Port of Rotterdam and MPA Singapore on MASS related topics. At the MTF it was agreed that representatives of the various committees would circulate details of the various task items that they are currently working on. The MTF Chair hoped that IALA members from areas of the world where MASS is being developed, specifically Korea and China will contribute to the work of the Task Force in the future. The next meeting is expected to be arranged in either November or December 2021.

Monica Sundklev, VTS Chair, asked if the report, before being sent to the committees and uploaded on the IALA web page, could include a brief introductory section on the purpose of the MASS Task Force together with the expected deliverables as committee participants may not be aware of the purpose the MTF. Also the participants of the meeting should be included for transparency on who has participated in the work.

Discussion highlighted that:

- MASS should be considered in all tasks listed in the work programme.
- The MTF now has its own Dashboard on the IALA website.
- That it is important that the MTF has transparent and clear administrative procedures.

Action item:

That committee chairs request committee representatives to the MASS Task Force provide an overview of their own committees' work on MASS.

6.2. CHALLENGES AND OPPORTUNITIES

No matters arising.

6.3. S1010 ATON PLANNING AND REQUIREMENTS

6.3.1. IMSAS

Minsu Jeon briefed the PAP on the background to IMSAS. Input was provided to IMO but there was no time to discuss the matter however the IMO Secretariat have assured IALA that the IMSAS auditors will begin to use IALA's input this year.

6.4. S1020 ATON DESIGN AND DELIVERY

6.4.1. TSUNAMI MONITORING

Minsu Jeon reported that there was no progress by the UN regional body called ESNB working on this item. ENG will begin their work on this item during the next work programme.

6.5. S1030 RADIONAVIGATION SERVICES

6.5.1. TEST STANDARDS OF MARITIME RECEIVERS

Jaime Alvarez, IALA Secretariat, briefed the PAP regarding the current standardization activities progressing in IEC that the technical committees are monitoring and contributing to as part of their program:

- Publication of new IEC 61108-7 standard for SBAS L1 receiver equipment for harbour entrances/approaches and coastal waters.

Related to the work done in ENG related to the task 3.4.3 on Augmentation Services (through the R1022, G1129, G1152)

The MARESS project is developing a new standard in the IEC 61108 series that will focus on SBAS L1 receivers for maritime applications. Named:

“DRAFT INTERNATIONAL STANDARD IEC 61108-7, Maritime navigation and radiocommunication equipment and systems – Global navigation satellite systems (GNSS) – Part 7: Satellite Bases Augmentation System (SBAS) L1 – Receiver equipment – Performance standards, methods of testing and required test results”.

On the other side, CEN, the European Standardisation Committee through its Technical Committee 5 dedicated to Space created the Working Group 8 of SBAS Maritime performance for maritime applications. This working group is using MARESS outputs to present the final draft of IEC-61108 Part 7 for SBAS to IEC Technical Committee 80 where in this worldwide organisation, the standard will be approved by state members. The target deadline for this milestone is mid-2023.

The next milestones are:

- CEN/CLC JT5 WG8 meeting on 21st September, afternoon, in Paris or virtually depending on the COVID-19 status. For this meeting, it is expected to present the current status of the MARESS project and discuss the comments and open points of the draft proposed.
- Kick-Off meeting for IEC TC80 61108-7 CD on 07.10.2021 (TBC), prior the plenary for IEC TC 80 which is planned from 12th to 14th of October 2021.
 - Development of a VHF Data exchange system (VDES) test standard

IALA ENAV WG3 and IEC TC 80 WG15 agreed to hold joint meetings to progress the work towards a description of requirements for VDES suitable for inclusion in an IEC test standard. Such IEC standard will specify technical requirements, methods of test and required test results for equipment implementing the functions of the VDES as defined in ITU-R M.2092. The meeting will be held virtually next September 14th, 2021 - 10:00 to 15:00 UTC. The meeting requires registration for attendance at IALA (Isabelle.bracq@iala-aism.org and virginia.marshall@iala-aism.org).

6.6. S1040 VESSEL TRAFFIC SERVICES

6.6.1. INTRODUCTION OF NEW IMO RESOLUTION

Monica Sundklev introduced input paper PAP42-6.6.1.1 which is an information paper going to all committees regarding the introduction of the new IMO resolution regarding VTS following IMO General Assembly in December 2021. IALA documentation relating to VTS is currently being revised to be inline with the new resolution when it is published in early 2022.

6.7. S1050 TRAINING AND CERTIFICATION

6.7.1. DISTANCE LEARNING

Please refer to agenda item 5.1.7.

6.8. S1060 DIGITAL COMMUNICATION TECHNOLOGIES

No matters arising.

6.9. S1070 INFORMATION SERVICES

6.9.1. IALA S-200 DEVELOPMENT

Minsu Jeon updated the PAP on matters related to S-200 development, summarizing the committee work that has taken place so far. It was acknowledged that there are some matters, such as definitions, that must be harmonized with IHO.

The PAP welcomed the news that IALA has a new domain in the IHO Portrayal Register which means that when committees have revision proposals to the current symbols on the chart it can be done officially through the process defined in the registry.

6.9.2. MARITIME RESOURCE NAME (MRN)

The PAP noted that the Secretariat is working on populating the MRN registry. The Secretariat is currently assigning MRN numbers to all publications and documents. The concept of an MRN Register – a name server that provides location information at the request of devices is being developed by the Secretariat.

Dave Lewald, ARM Vice-chair, updated the PAP on assigning waterways with MRNs within the US.

6.9.3. MARITIME SERVICES

Minsu Jeon summarized the activities of each committee under maritime services.

Following discussion, the PAP agreed that VTS should be merged into one service under MS1. This would give rise to an opportunity for MS2 and MS3 to possibly be reserved for other areas such as AtoN and PNT instead of placing them as MS17 and 18, as is currently proposed.

The proposed IALA Guideline on Maritime Services is currently being developed in the ARM Committee. Concerns were raised regarding the draft addressing maritime services that are not within IALA's remit and it was agreed to delete them. The ARM Committee welcomes any comments from other committees to develop this Guideline.

6.9.4. MARITIME ICT PROPOSAL FROM REPUBLIC OF KOREA INC. PRESENTATION

The Republic of Korea put forward a draft input paper (PAP42-6.9.4.1.1) to the IMO in order to establish an IMO correspondence group to develop the terms of reference for a future IMO/IALA working group, for when IALA becomes an IGO, to facilitate discussion on new technologies focusing upon maritime information communication technologies.

The PAP thanked Republic of Korea for their innovative proposal. There was agreement within PAP that there is a need for this important work on maritime information communication technologies and in order that the core action from the input paper is not lost, there was general agreement that IALA should consider how to progress these important issues in the short to medium future. Concerns were raised about the proposed inclusion of the new, and not yet established IGO as it was felt that it would not be possible for the current IALA to act in any way on behalf of the new IGO in the long term.

6.10. COMMITTEE WORK PROGRAMME AND STRUCTURE

6.10.1. COMMITTEE WORK PROGRAMME 2018 - 2023 AND 2023 - 2027

The Secretariat is monitoring the progress of submissions for the future Work Programme. The PAP agreed to send proposals for the next Committee Work Programme 2023 – 2027 to the Secretariat in order that a draft work programme can be input to the PAP.

Action item:

That committee chairs provide their committee's proposals for the Work Programme 2023 – 2027 to the Secretariat in order that a draft work programme can be input to the PAP.

6.10.2. FUTURE COMMITTEE STRUCTURE

The internal structure of the committees are at the chairs' discretion therefore members were asked if they have any changes to consider then they were encouraged to raise them at subsequent PAP sessions.

Action item:

That committee chairs submit input to PAP on any possible changes to the future committee internal structure.

6.10.3. UPCOMING EVENTS

The PAP agreed the provisional dates for the first half 2022 committee meetings. VTS and ENG chairs agreed to swap in order to give more room for the introduction of the IMO resolution on VTS and a prior commitment to running an AtoN training course.

6.10.3.1. Workshop on ERPS

The workshop on Enhanced Radar Positioning System (ERPS) will be held virtually from 29 November to 1 December 2021.

6.10.3.2. Workshop on AtoN engineering

Due to the global pandemic this event is currently postponed until further notice.

6.10.3.3. Workshop on S-100/200

The workshop on S-100/200 is due to take place in June 2022 and will be held face-to-face.

6.10.3.4. Workshop on cybersecurity

The workshop on cybersecurity is due to take place in November 2021 virtually.

6.11. OPERATIONS/ADMINISTRATION

6.11.1. IALA DICTIONARY

The PAP noted that ARM is working on various definitions that are expected to be added post-ARM14.

6.11.2. COMMUNICATIONS

Communications officer Audrey Guinault introduced the improvements that have been made to the website since the last session of PAP. Effort was made to make the website more attractive and user friendly, the menu and the homepage have been updated, dedicated websites have been created for events as well as a Heritage and Culture website.

The webinars are now well established and successful. The average number of participants per event is 100. The number of Youtube views ranges from 55 to 1070. The e-Bulletin has been updated to be a little longer with a few more articles and one extra banner for industrial members to advertise their products as the printed edition of the *Bulletin* was stopped.

6.11.3. COMMITTEE FACILITATION

The PAP noted that minor changes to the dashboards have been made to improve usability. In addition a new tool has been added that makes it possible for IALA members to search more easily for specific words with all IALA documentation.

6.11.4. IALA STYLE GUIDE

Thomas Southall thanked members and their committee participants for their feedback on the *IALA Styleguide* and explained that version 1.3 has now been uploaded to the website. He went on to explain that there was now a small introductory course that accompanies the Guide and urged all members including the Secretariat to undertake it as soon as possible. The course can be found [here](#).

Members asked the Secretariat to consider the inclusion advice on how to refer to an individual in reports and templates for reports and liaison notes.

Action item:

That the Secretariat consider the inclusion of advice on how to refer to individuals in reports and templates for reports and liaison notes.

6.12. OTHER

6.12.1. IALA AToN AND VTS QUESTIONNAIRE

The PAP noted that the Secretariat is looking at ways to improve the delivery of IALA's questionnaire and members will be updated on this matter in due course.

6.12.2. IALA NAVGUIDE

Minsu Jeon briefed the work of NAVGUIDE version 2022 which is on track as planned. South Africa have offered to carry out the design of the publication.

6.13. THE IGO PROJECT

The Secretary-General reported that the project is going very well with good support from the Government of France. Currently fourteen States have signed and 3 of them have ratified already. The next challenge is to draft The General Regulations of the new organization that will be agreed by the first General Assembly of the new IGO. In order to do this there will be a number of conferences in 2022 to draft the proposed General Regulations.

7. ANY OTHER BUSINESS

No matters arising.

8. REPORT OF THE MEETING

The final report was approved by correspondence.

9. DATE AND VENUE OF NEXT MEETING

The next meeting is planned to take place in November at a date to be agreed.

10. CLOSING OF MEETING

Omar Frits Eriksson thanked all participants for their cooperation and urged all to stay safe and healthy.

11. 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



42nd Meeting of the IALA Policy Advisory Panel (PAP42)

The 42nd meeting of the Policy Advisory Panel will be held on 8 – 10 September 2021, as a hybrid meeting. The timings of the meeting are:

Wednesday 08/09/2021 1000 - 1200 UTC

Thursday 09/09/2021 1000 - 1200 UTC

Friday 10/09/2021 1000 - 1200 UTC

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.

Provisional Agenda

Day One

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 from PAP41	TS	Note
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3 Review of input papers

3.1	Review of input papers to PAP42	TS	Note
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4 Reports from other bodies

4.1	IALA		
4.1.1	IALA Council	MJ	Note
4.2	IMO	MJ	Note
4.3	IHO		
4.3.1	Technical coordination meeting	MJ	Note
4.4	ITU	MJ	Discuss
4.5	Other (PIANC, CIRM, IMPA, & IHMA etc.)	MJ	Note
4.5.1	Digital@Sea	MJ	Note
4.5.2	3GPP	MJ	Note

5 Coordination

5.1	Progress reports		
5.1.1	ENAV	HN	Note
5.1.2	VTs	MS	Note
5.1.3	ENG	SM	Note
5.1.4	ARM	PD	Note



5.1.5	IMC	MN	Note
5.1.6	LAP	CS	Note
5.1.7	WWA	OFE	Note

Day Two

6 Strategy and Policy

6.1	Strategic goals and policies		
6.1.1	Drivers and trends	OFE	Discuss
6.1.2	Cross-committee coordination	All	Discuss
6.1.3	IALA Position on the Development of AtoN Services	OFE	Discuss
6.1.4	Revision of IALA Standards	MJ	Discuss
6.1.5	IALA's involvement in MASS	MJ	Discuss
6.2	Challenges and opportunities		
6.3	S1010 AtoN Planning and Requirements		
6.3.1	IMSAS	MJ	Discuss
6.4	S1020 AtoN Design and Delivery		
6.4.1	Tsunami monitoring	MJ	Discuss
6.5	S1030 Radionavigation Services		
6.5.1	Test standards of maritime receivers	JA	Discuss
6.6	S1040 Vessel Traffic Services		
6.6.1	Introduction of new IMO Resolution	MS	Note
6.7	S1050 Training and Certification		
6.7.1	Distance learning	OFE	Note
6.8	S1060 Digital Communication Technologies		
6.9	S1070 Information Services		
6.9.1	IALA S-200 development	MJ	Note
6.9.2	Maritime Resource Name (MRN)	MJ	Discuss
6.9.3	Maritime Services	MJ	Discuss
6.9.4	Maritime ICT Proposal from Republic of Korea inc. presentation	MJ	Discuss
6.10	Committee work programme and structure		
6.10.1	Committee Work Programme 2018 - 2023 and 2023 - 2027	MJ	Review
6.10.2	Future committee structure	MJ	Discuss
6.10.3	Upcoming events		
6.3.10.1.	Workshop on ERPS	SM	Discuss
6.3.10.2.	Workshop on AtoN engineering	SM	Discuss
6.3.10.3.	Workshop on S-100/200	PD	Discuss
6.3.10.4.	Workshop on cybersecurity	PD	Discuss
6.11	Operations/Administration		
6.11.1	IALA Dictionary	MJ	Discuss
6.11.2	Communications	AG	Discuss
6.11.3	Committee facilitation	TS	Discuss
6.11.4	IALA Style Guide	TS	Note
6.12	Other		
6.12.1	IALA AtoN Questionnaire	MJ	Discuss
6.12.2	IALA NAVGUIDE	MJ	Note
6.13	The IGO project	FZ	Note

7 Any other business

8 Report of the meeting

9 Date and venue of next meeting

10 Closing of meeting



ANNEX B LIST OF PARTICIPANTS

ARM Committee	Chair	Phil Day phild@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

ANNEX C LIST OF INPUT PAPERS

Meeting	Agenda Item	Input Paper Number and Title	Source
PAP42-	1.2.1	Provisional Agenda rev.2.0	IALA Secretariat
PAP42-	2.1.1	Action items from PAP41	IALA Secretariat
PAP42-	3.0	Input paper template	IALA Secretariat
PAP42-	3.1.1	Input Paper List	IALA Secretariat
PAP42-	3.1.1	List of Input Papers	IALA Secretariat
PAP42-	4.1.1.1	Final report Council 73	Council 73
PAP42-	4.1.1.2	IALA Position Document on the Development of Marine AtoN Services 2019 - WG3 review - closing	ENG13
PAP42-	4.3.1.1	Report IHO IALA Technical 5th Coordination Meeting final	IALA Secretariat
PAP42-	4.4.1	IALA Report of ITU-R WP5B meeting 10 to 21 May 2021	Stefan Bober
PAP42-	4.4.1.1	R19-WP5B-C-0355!N39!MSW-E - Reply liaison statement to IALA+CIRM on rev ITU-R M1371-5	ITU
PAP42-	4.5.1	Report of the D@S webinar (without attachments)	IALA Secretariat
PAP42-	4.5.1.1	DMA Digital@sea	IALA Secretariat
PAP42-	4.5.1.2	Sunbae Hong Digital@Sea	IALA Secretariat
PAP42-	4.5.1.3	RTCM report	IALA Secretariat
PAP42-	4.5.1.4	Digital@Sea list of participants	IALA Secretariat
PAP42-	5.1.3.2	Liaison note PAP re RTCM questions - closing (ENG13-12.3.7)	ENG13
PAP42-	5.1.3.3	Input paper change from Legacy to Culture (ENG13-12.4.1)	ENG13
PAP42-	5.1.4.1	Liaison note to all committees on the final draft revision of MBS R1001 (ARM13-11.2.5)	ARM13
PAP42-	5.1.4.1.1	draft WP The IALA Maritime Buoyage System (ARM13-11.2.5.1)	ARM13
PAP42-	5.1.4.1.2	Marine aids to navigation-SAMPLE	ARM13
PAP42-	6.1.2.1	Cross-committee Work PAP42	IALA Secretariat
PAP42-	6.1.2.2	Draft Proposal on Portrayal issues	VTS Chair / Vice-chair
PAP42-	6.1.2.2.1	Attachment - VTS51-7.3.1 Input - Comment on Portrayal and Proposals for Next Work Programme	VTS Chair / Vice-chair
PAP42-	6.1.2.3	Proposal on updating cross-committee procedures	VTS Chair / Vice-chair
PAP42-	6.1.2.3.1	Attachment 1 - Letter to VTS Committee Chair and WG1 Chair - Task 1.2.4	VTS Chair / Vice-chair
PAP42-	6.1.2.3.2	Attachment 2 - ARM13-8.4.1 WP ARM Maritime Service Guideline development V1.3 (ARM12-8.4.6)	VTS Chair / Vice-chair

Meeting	Agenda Item	Input Paper Number and Title	Source
PAP42-	6.1.4.1	Draft revision S1010 AtoN Planning and Service Requirements (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.4.2	Draft revision S1020 AtoN Design and Delivery (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.4.3	Draft revision S1030 Radionavigation Services (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.4.4	Draft revision S1040 Vessel Traffic Services (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.4.5	Draft revision S1050 Training and Certification (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.4.6	Draft revision S1060 Digital Communication Technologies (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.4.7	Draft revision S1070 Information Services (for review 2nd half 2021)	IALA Secretariat
PAP42-	6.1.5.1	Input paper on the report of IALA WS on MASS	ENAV Chair
PAP42-	6.1.5.1.1	Report on the IALA Workshop on marine AtoN in the autonomous world_FINAL (1)	ENAV Chair
PAP42-	6.1.5.2	Draft MASS Rec-WG2 review (ENAV27-12.2.1)	ENAV27
PAP42-	6.1.5.2.1	Draft MASS Rec-WG2 review (ENAV27-12.2.1)	ENAV27
PAP42-	6.1.5.3	MASS Task Force Findings	Mass Task Force
PAP42-	6.5.2	Draft revision S1030 Radionavigation Services - WG3 - closing (ENG13-3.1.0.3)	ENG13
PAP42-	6.6.1.1	INF - VTS Update - Revision to IMO Resolution A857(20)	VTS Chair and TG
PAP42-	6.6.1.1.1	Draft IMO Resolution & Draft Guideline G1089	VTS Chair and TG
PAP42-	6.8.1	Draft revision S1060 Digital Communication Technologies (ENAV27-12.0.1)	ENAV27
PAP42-	6.9.4.1	Maritime ICT proposal from Republic of Korea	IALA Secretariat / RoK
PAP42-	6.9.4.1.1	Draft Proposal to IMO	IALA Secretariat / RoK
PAP42-	6.9.5	Draft revision S1070 Information Services_ver 0.1_29012021 (ENAV27-12.0.2)	ENAV27
PAP42-	6.10.1.1	Committee Work Programme for 2018-2023 (C73-10.1.2.1)	Council 73
PAP42-	6.10.1.2	ENAV WG2-Proposed tasks for IALA Work Term 2022-2026 (ENAV27-12.2.8)	ENAV27
PAP42-	6.10.1.3	Proposal for the Work Programme 2022-2026 for IALA ENAV WG1 – Digital Information System (ENAV27-12.1.4)	ENAV27
PAP42-	6.10.3.0	Proposed meeting dates 2022	IALA Secretariat



Meeting	Agenda Item	Input Paper Number and Title	Source
PAP42-	6.11.4.1	IALA Style Guide July 2021 Ed1.3	IALA Secretariat
PAP42-	6.12.2.1	NAVGUIDE 2018 Chapter 7&8 review by ENG13 for silent approval	ENG13
PAP42-	7.1	Technical documents Catalogue August 2021 (online)	IALA Secretariat

ANNEX D LIST OF OUTPUT PAPERS

Meeting	Agenda Item	OUTPUT PAPERS
PAP42-	8.1	Report of PAP42

ANNEX E ACTION ITEMS

<i>That committee chairs provide their committee's proposals for the Work Programme 2023 – 2027 to the Secretariat in order that a draft work programme can be input to the PAP.</i>	<i>16</i>
<i>That committee chairs submit input to PAP on any possible changes to the future committee internal structure.</i>	<i>16</i>
<i>That the Secretariat attends the next IMO/ITU joint expert group meeting November 1st to 5th 2021...</i>	<i>7</i>
<i>That the Secretariat further consolidate the comments on the standards review and input them as revised standards to all committees.....</i>	<i>10</i>
<i>That the Secretariat review the timeline for standard review to reflect a six month extension to the deadline of this work item.</i>	<i>10</i>
<i>That the Secretariat arrange an additional PAP in November to discuss cross-committee facilitation. .</i>	<i>12</i>
<i>That the Secretariat submits input papers PAP42-6.1.2.3, 6.1.2.3.1 and 6.1.2.3.2 to the proposed PAP in November 2021.</i>	<i>12</i>
<i>That the Secretariat forwards updated versions of the standards to LAP and all committees.....</i>	<i>13</i>
<i>That committee chairs request committee representatives to the MASS Task Force provide an overview of their own committees' work on MASS.</i>	<i>13</i>
<i>That the Secretariat consider the inclusion of advice on how to refer to individuals in reports and templates for reports and liaison notes.</i>	<i>17</i>

