



IALA POLICY ADVISORY PANEL

Report of the 41st session of the IALA Policy Advisory Panel (PAP)

3 - 5 February 2021

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Policy Advisory Panel (PAP)
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Executive Summary**

The 41st session of PAP was held virtually for the first time over three sessions on 3 - 5 February 2021.

The PAP was updated on the latest decisions made at Council 72.

The current Work Programme and cross-committee cooperation on various subjects were discussed.

The PAP noted that Ms Annick Girardin, Minister for Maritime Affairs of France, has signed the Convention on the International Organization for Marine Aids to Navigation on 27 January 2021 on behalf of the French Republic. The Convention is now open for signature by interested States during the next 12 months.

The PAP agreed to establish a proposed MASS group that will report to PAP, and that the Secretariat finalizes the terms of reference for the group. PAP also agreed that the Netherlands should provide the chair and Singapore the vice chair.

The PAP were also updated on many items including:

- IALA's input to MSC103 regarding the update of IMSAS
- The future of DGNSS
- IALA S-200 development
- Maritime Resource Name (MRN)
- Arrangements for the upcoming virtual committees
- The introduction of the new IALA Style Guide

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Report of the 41st Session of the IALA

Policy Advisory Panel

GENERAL

The 41st meeting of the Policy Advisory Panel (PAP) was held on 3 – 5 February 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 welcomed all members to PAP41 and provided an update on the highlights of IALA activities since the last PAP meeting. He stated:

“Notwithstanding the COVID-19 pandemic restrictions IALA and the World-Wide Academy are on track with their respective work programmes and planned activities.

Each of the four Committees and the Legal Advisory Panel will meet remotely once again, during March and April, in accordance with established procedures. These innovative working arrangements proved remarkably effective for the meetings in the latter part of last year. In total, 546 attendees from 35 countries and sister organisations logged on, and 139 participants attended for the first time. An updated version of the arrangements will be discussed later on the agenda.

This success is a great tribute to the flexibility of the committee, panel and working group chairs, vice-chairs and I would thank all of you for your tremendous efforts and work in the well known spirit of IALA.

The launch of webinars to air and discuss technical and practical issues related to the provision of marine aids to navigation has also proved very popular. They will therefore be continued into the future, post-pandemic. Thank you also for supporting this initiative.

Face-to-face meetings remain IALA’s preferred mode of operation. I therefore hope it will be possible for the Council to hold its mid-year session in Rio de Janeiro where Brazil traditionally will provide Councillors with an update on the preparations for the 20th IALA Conference in 2022. This will also be the venue for the 14th General Assembly, which we need to prepare for.

The Industrial Members’ Committee, which conducted its Mid-Term Assembly online last October, has decided to develop a Code of Conduct, in consultation with the Secretariat. The draft document will be presented at the General Assembly.

The Secretariat is planning for the Committee and Panel meetings to take place physically at the IALA Headquarters during the second half of this year in a new hybrid version. However, everything – especially long term planning - is of course uncertain for the moment, and we have to follow the health situation very carefully.

All information on the postponed 2020 IALA Symposium is available from the official website. After our Steering Group meeting last week, the Netherlands Ministry of Infrastructure and Water Management and the Secretariat have been finalizing the details of the reconstituted programme together with the online registration arrangements.

I am pleased to report that Ms Annick Girardin, Minister for Maritime Affairs of France, signed the Convention on the International Organization for Marine Aids to Navigation on 27 January 2021 on behalf of the French Republic. The Convention is now open for signature by interested States during the next 12 months. Thereafter, it will be open for accession by any State that is a member of the United Nations. I am confident of speedy progress as many of the 50 States who agreed to adopt the Convention at the Diplomatic

Conference held in Kuala Lumpur in February 2020 indicated their readiness to sign it. The text is now also ready in the six official languages of the UN and will soon be posted on the web site.”

1.1.2 Welcome from the Deputy Secretary-General

The Deputy Secretary-General welcomed all members to the 41st meeting of the PAP. He then welcomed the enhanced use of MS Teams for the PAP meeting which gave improved functionality to Members including filesharing, chat and collaboration tools. He went on to assert that further utilisation of the Teams platform is an ambition that the Secretariat have for future committee meetings.

1.2 Approval of agenda

The agenda (input paper PAP41-1.2.1) was approved. The approved agenda is provided in ANNEX A.

1.3 Apologies and introductions

No apologies were received.

2. REVIEW OF ACTION ITEMS FROM LAST MEETING

2.1 Review of action items from PAP40

Input paper PAP41-2.1 refers.

The list of action items was reviewed from PAP40. PAP noted that most actions were completed; however a number were still ongoing but yet to be completed. In particular the action on portrayal was outstanding and VTS and ARM chairs agreed to progress this work item at the next committee sessions.

Action item(s):

The Secretariat to follow the work of committees on the portrayal topic and provide input to the next PAP for further discussion.

3. REVIEW OF INPUT PAPERS

3.1 Review of input papers to PAP41

Members noted the input paper list (PAP41-3.1.1). A list of input papers is provided in ANNEX C.

4. REPORTS FROM OTHER BODIES

4.1 IALA

4.1.1 IALA Council

The 72nd session of the IALA Council was held virtually from 8 to 10 December 2020 by videoconference. Technical Operations Manager, Minsu Jeon highlighted the approved documents and the PAP noted that there were several documents returned to the committees for further consideration.

General Discussion highlighted that:

- As part of the submission to Council any details such as the urgent need for a document may be emphasised.
- The need for the Council report to reflect the rationale for decisions such as returning submissions back to committees for further consideration.
- There is a need to gain consensus between committees on work items that involve more than one prior to submission to Council.
- Chairs may attend Council if they wish by approaching the Secretary-General.

4.2 IMO

Input document(s) PAP41-4.2.1 refers.

Minsu Jeon reported that whilst many IMO meetings were postponed to the end of the year, MSC 102 went ahead. MSC 102 has approved the new resolution on VTS guideline A.857(20), and this would now be submitted to the IMO Assembly December 2021.

IALA input to HTW 7 on Vessel Traffic Service training for deck officers (VTS48-10.5.1.1) has been deferred to the next HTW.

In addition, the PAP noted a proposal for a new output on amendments to SOLAS chapter V and development and revision of relevant IMO instruments to introduce VHF Data Exchange System (VDES) by Japan, Norway and Singapore.

It was also noted that the US had made a submission regarding GNSS interference and were seeking a resolution on this matter.

4.3 IHO

4.3.1 Technical coordination meeting

Minsu Jeon reported that the 4th IHO and IALA technical coordination meeting was held on 14 Oct 2020, and discussed topics including S-100 and S-200 updates, MRN document ed.2 and the postponement of the IALA / IHO joint workshop. The next meeting is scheduled for March 2021.

4.4 ITU

Input document(s) PAP41-4.4.1 and 4.4.1.1 refers.

Hideki Noguchi, Chair of the ENAV Committee, reported that the ITU-R WP5B at its November 2021 meeting, issued a liaison statement to IALA, IMO and CIRM regarding the revision of ITU-R M.1371-5 “Technical characteristics for an automatic identification system using time division multiple access in the VHF maritime mobile frequency band” (input document PAP41-4.4.1.1).

Most of the proposed revision items such as navigational status, autonomous maritime radio devices, ship type are considered as mainly operational issues remitted to ARM and VTS Committee, though some items are considered as technical issues remitted to ENAV. It requires a cross-Committee work in order to liaise back to ITU-R WP 5B.

Noting that the spring session of committees are scheduled for ENAV27, 1 - 26 March, VTS50, 10 - 31 March and ARM13, 13 - 28 April, and the deadline for ITU submission of the liaison is 26 April 2021. Therefore, the PAP agreed the following timeframe to respond to the ITU:

- ENAV27 and VTS50 consider the matter in parallel and submit their findings to ARM13;
- In coordination with the Chairs of ENAV And VTS, ARM13 finalises the liaison note to ITU and submits the liaison note as an output from ARM for Council approval by correspondence and submission to the ITU by the 26 April.

The PAP also noted that the IMO NCSR 8 will consider the same liaison statement from ITU. This is scheduled to be handled at an intersessional meeting of the Communication Working Group of NCSR that is responsible for ITU matters 7 - 13 April. It is therefore difficult to inform the NCSR 8 of the IALA’s viewpoint with a formal submission. When asked by NCSR 8 on this matter, the Secretariat is expected to verbally answer the situation as appropriate.

Action item:

That the ENAV, VTS and ARM committees to liaise and coordinate a response regarding the revision of ITU-R M.1371-5 “Technical characteristics for an automatic identification system using time division multiple access in the VHF maritime mobile frequency band” to Council in order to provide a submission to the ITU by 26 April 2021.

4.5 Other (PIANC, CIRM, IMPA, & IHMA etc.)

The PAP noted developments in other organizations, including the IHMA where a new African Harbour Masters branch has been established and the IEC with whom the committees have been liaising under the coordination of Jorge Arroyo, thanks were extended to him for this vital work. Jorge Arroyo went on to report that there will be a IEC committee draft ready for voting in the near future. Work on a Standard was advanced at the IEC particularly regarding AIS MAtON symbology and ASM application specific messaging.

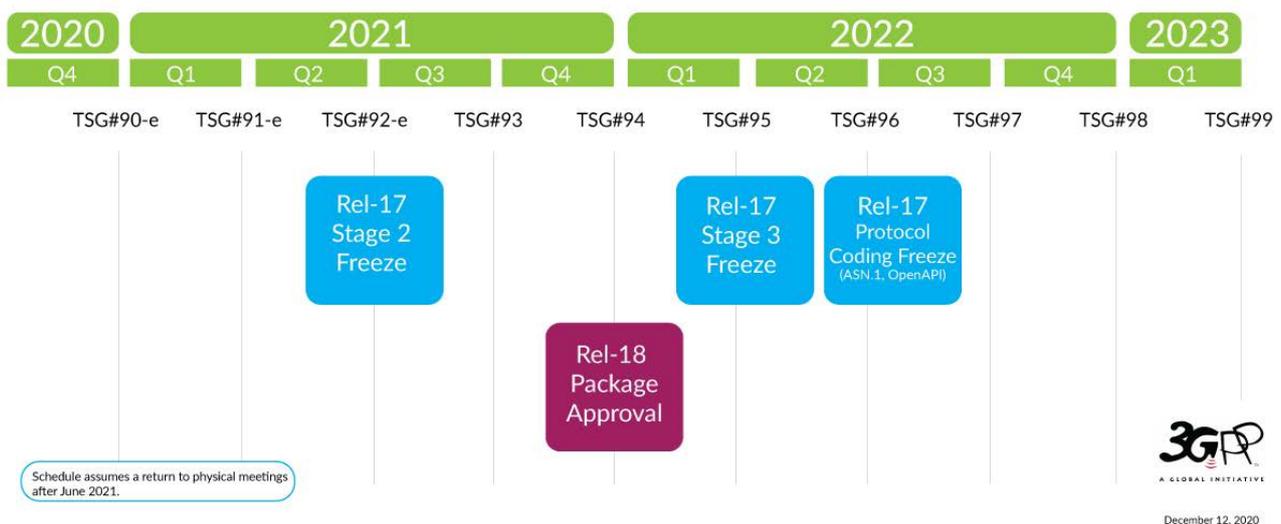
4.5.1 Digital@Sea

The Secretary-General reported that Digital@Sea International was postponed this January, but Digital@Sea events will take place in the summer in the Republic of Korea and then the US later on in the year. A steering committee will be convened on the 16 February for a webinar to discuss what Digital@Sea’s aims and objectives are. Digital@Sea has a broad scope and will consider all issues relating to digital matters in the maritime sector including for instance MASS issues.

4.5.2 3GPP

Minsu Jeon presented a timetable of 3GPP developments, and this principally included the next release of the technology no.17. Developments include:

- The ability of unmanned cars will talk to each other without a base station.
- 5G URLLC – relating to latency.
- NTN-non terrestrial network for maritime, air and vessels.



IALA plan to submit the following draft documents to 3GPP for feedback:

- Recommendation on Use of International Mobile Telecommunications (IMT) by Marine Aids to Navigation Authorities
- Guideline on integration and use of International Mobile Telecommunications (IMT) technologies by Marine Aids to Navigation Authorities

The ENAV Committee will continue to coordinate with 3GPP and inform IMO/ITU Expert Group meeting on the technology.

It was recalled that there was a presentation at the IALA Conference in Incheon by the Korean delegation that committee may wish to note.

5. COORDINATION

5.1 Progress reports

5.1.1 ENAV

The 26th meeting of the ENAV Committee was held for first time in virtually from 29 September to 23 October 2020.

There were 136 participants from 28 countries and four Sister organisations, 9 for the first time. There were four observers.

There was continued progress on the 2018 – 2020 Work Programme with the following items completed:

- The completion of a new Guideline on Web Services-based S-100 Data Exchange,
- The completion of a new Guideline on VDES R-Mode,
- A Liaison Note to all Committees on the work on Cyber Security within IALA,
- A Liaison Note to IEC MT5 on IEC62288,

5.1.2 VTS

The 49th meeting of the VTS Committee was held from 21 September to 15 October 2020 virtually.

172 Participants from 34 countries, four Sister organisations participated in VTS49. 67 participants attended for the first time.

The meeting was carried out in accordance with the Virtual Committee Arrangements online. Approximately 63 meetings were arranged.

- Key outputs completed included:
- Revision of Guideline G1089 - Provision of a VTS
- Revision of Recommendation R0119 on the Implementation of Vessel Traffic Services
- Revision of Guideline on Establishment of Vessel Traffic Services
- Revision and split of IALA Recommendation R0103 (V-103)
- Associated Guideline to R0103
- IALA Recommendation on Marine Aids to Navigation and VTS Awareness for Navigators

The following liaison notes were prepared:

- Liaison Note on S-212 Referencing to other S-100 Product Specifications

Thirteen intersessional groups continue to progress work between VTS Committee sessions, including a group progressing the IMSAS Manual work item.

5.1.3 ENG

ENG12 was held virtually which worked well. The Dashboard was well received and was of assistance to all members who quickly worked out how to use it to their benefit.

128 participants which is a record attendance from 31 countries with 35 new attendees (27%)

The Committee completed the following:

- Standards 1020 and 1030 were reviewed for their relevant references to recommendations and these were submitted to the Secretariat.
- Two recommendations on Terrestrial Radionavigation services and GNSS augmentation were submitted to Council, the Terrestrial Radionavigation services recommendation was approved and the GNSS Augmentation recommendation was returned with further comment for ENG to consider.

- One revised Guideline on Effective Intensity (G1135) was submitted to Council which was approved.
- Four Liaison notes to external bodies were submitted via Council
- Five Liaison notes to IALA committees sent out.

The workplan was progressed though there will be some carry over into the 2022-26 work plan due to the virtual working arrangements.

The 2022-26 work plan is being developed and is in a draft form out for comment and additions with the various WG chairs.

The working arrangements with Task Groups worked well. There was much discussion about the duration of the Committee and the overall view was that 3 weeks was too short to allow work and silent approval, therefore 4 weeks has been allocated for ENG13.

Succession planning: ENG has vacancies in the chair of WG2 and the ENG Chairman will leave the role on 2022. It is not so straightforward to engage and encourage people to take on these roles remotely though the Chair will look to start discussions on this with the Secretariat soon.

5.1.4 ARM

The 12th Session of the ARM Committee was held virtually from 28 September to 22 October 2020 with Phil Day as Chair and Dave Lewald as Vice-Chair. The Secretary for the meeting was Thomas Southall.

110 Participants from 32 countries and two Sister organisations participated in ARM12. 28 participants attended for the first time.

Key outputs completed included:

- Revised Recommendation R1016 Mobile Marine Aid to Navigation (MAtoN)
- Guideline on the use of Mobile AtoN
- Guideline on the development of a description of a maritime service in the context of e-Navigation plus annex
- Guideline G1143 Unique Identifiers for Maritime Resources
- Recommendation on Marine Aids to Navigation and VTS Awareness for Mariners
- The following liaison notes were prepared:
 - Liaison Note to IHO NIPWG on “Marine Navigational Services Product Specification – Vision outline”
 - Liaison note regarding revision of MBS R1001
 - Liaison Note to ENG regarding Recommendation E-110 Rhythmic Characters of Lights on AtoN

The PAP noted that the Liaison Note sent to the IHO was received positively and IALA looks forward to receiving an input from them for ARM13.

The priorities for ARM is now the completion of the MBS and the review of the relevant Standards.

5.1.5 IMC

The IMC has produced a Code of Conduct which has been welcomed as a positive stride forward.

The PAP noted that the WWA had developed a module on procurement. The Chair re-iterated the invitation to IMC Members to provide input to this module.

5.1.6 LAP

The 21st session of the Legal Advisory Panel was held virtually from 13 to 15 October 2020.

The following items were progressed:

- LAP reviewed the text of the Council Decision on Transitional Arrangements from the Kuala Lumpur Convention to be sent to Council 72 for consideration.
- LAP reviewed the Basic Documents to be sent to Council72 for consideration.
- LAP considered the input paper from ARM on the revision of IMSAS Manual 2014 Annex 3 and made a minor editorial change.
- LAP considered the input paper from ARM about IALA Regions at the Poles and issued advice to be considered by the ARM committee.

5.1.7 WWA

Due to the pandemic all travelling is currently stopped. The whole suite of courses are being developed to be for delivery online with some ready in mid-March including the IALA risk management toolbox and AtoN Manager Master course. The IMC are encouraged to put forward Members to evaluate the newly developed procurement course.

Follow up micro seminars have been arranged for countries that the Academy have conducted technical missions. Academy webinars have also been successfully delivered and is proving quite popular.

5.2 S1010 AtoN Planning and Requirements

5.2.1 IMSAS

Minsu Jeon briefed the PAP on the background to IMSAS and it was noted that the update of IMSAS was delayed due to the pandemic. In liaison with the IMO Secretariat, it was established that input on IMSAS should be submitted to MSC 103 which was to be held in May 2021.

Acknowledging that the VTS and ARM committees have worked very hard to produce the draft, and following minor editorial amendments, the PAP agreed to task the Secretariat to finalize the document *PAP41-8.2 MSC103 IMSAS manual update by IALA* to Council for approval and then submit it to IMO MSC 103. Of particular note that PAP agreed to amend the reference to the old VTS resolution, delete reference to IHO part and align the structure of the VTS and AtoN sections.

Action item:

That the **Secretariat** make minor amendments to output document *PAP41-8.2 IMSAS manual update by IALA* and then forward the draft to Council for approval and submission to IMO MSC 103.

5.3 S1020 AtoN Design and Delivery

5.3.1 Tsunami monitoring

Minsu Jeon introduced the work of a UN regional body called ESNB. This body has invited IALA to contribute to their work on Tsunami monitoring. ESNB is considering:

- High accuracy GPS;
- GNSS data with ships;
- Radar and laser sea surface height; and
- Dedicated ocean floor cable-based observation.

The Secretariat will prepare an input paper regarding this matter for ENG13.

Action item:

*The **Secretariat** is requested to prepare an input paper on ESNB work to ENG 13 for further discussion.*

5.4 S1030 Radionavigation Services

5.4.1 Future of DGNSS

The PAP noted that a new DGNSS station has been established in Norway for use in MASS trials. The UK GLA will cease transmitting in March 2022 and whilst Australia have already stopped.

Discussion highlighted that there is a strong link between the Worlde-Wide Radio Navigation Plan and MASS. The ENG Chair informed the PAP that the Worlde-Wide Radio Navigation Plan will be updated in the next Work Programme and take MASS into consideration.

Jaime Alvarez then briefed the PAP about the IEC Standardisation for SBAS maritime receivers. He recalled the observations of the DGNSS Workshop in its report on the standardisation of the source of GNSS integrity needs. During the WS, it was also recommended for authorities to remain DGNSS station operational until other options are fully operational, standardised and ready for ship equipage.

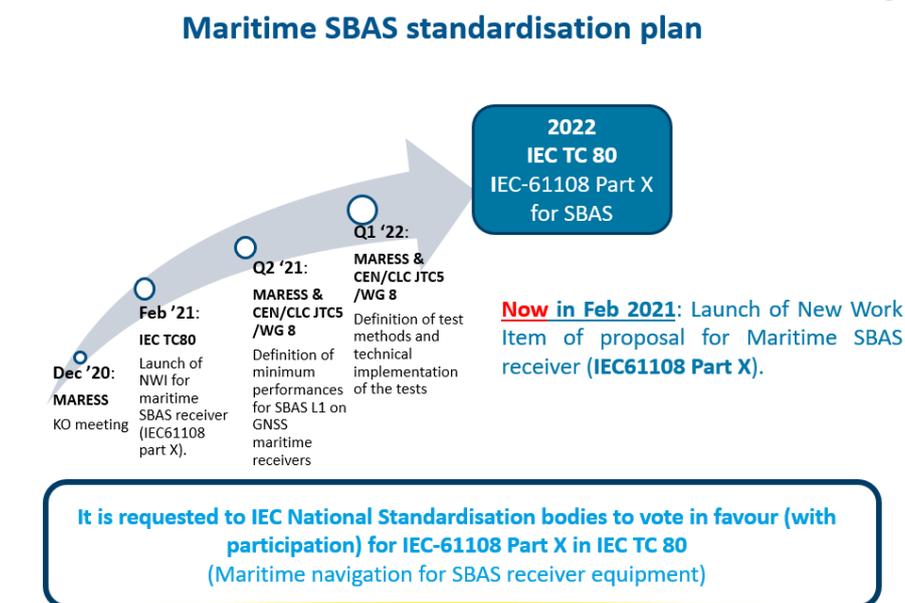
The final purpose of the process in IEC is to produce a new standard in the IEC 61108 series that will focus on SBAS L1 receivers for maritime applications; in the same way as the IEC 61108-4:2004 specifies the minimum operational and performance requirements, methods of testing and required test results relative to the shipborne DGPS and DGLONASS maritime radio beacon receiver equipment.

The process to provide in IEC the required documentation for launching the standardisation is focused in two workflows:

On one side, the MARESS project (including IALA members as Cerema and ESSP) will develop material and content to be an input in the standard IEC-61108.

On the other side, CEN, the European Standardisation Committee through its Technical Committee 5 dedicated to Space has created the Working Group 8 of SBAS Maritime performance for maritime applications that will use MARESS outputs to present the final draft of IEC-61108 Part X for SBAS to IEC TC80.

Below standardisation plan presents the steps and milestones:



The New Work Item (NWI) for maritime SBAS receiver will be launched on February 2021 starting the process on IEC TC80. It is requested to the IEC Standardisation bodies listed in this [link](#) to vote in favour with participation. The work produced in the ENG Committee WG3 defining the SBAS Maritime Service (G1152) could be therefore concluded with the standardisation of the maritime ship receiver.

5.5 S1040 Vessel Traffic Services

5.5.1 Ship reporting guideline

The PAP recalled that input paper 5.5.1.1 had been returned from Council 72 to the committees. The VTS and ARM chairs have liaised with each other and will progress the work jointly at the upcoming committee meetings. A presentation will be given to VTS50 by the ARM committee to provide the background to the work on this item so far.

5.6 S1050 Training and Certification

5.6.1 Distance learning

The World-Wide Academy has reviewed the current distance learning offering and will be delivered more often on a 10 - 12 week cycle. The time of completion has been reduced and there is a change in the delivery of the risk courses to be more modular. A new course on procurement has also been created and delivered.

5.7 S1060 Digital Communication Technologies

No matters arising.

5.8 S1070 Information Services

5.8.1 IALA S-200 development

Minsu Jeon updated the PAP on matters related to S-200 development, summarising the cross-committee work that has taken place.

5.8.2 Maritime Resource Name (MRN)

The PAP noted that ARM is working on MRNs in conjunction with the Secretariat. The MRN Guideline edition no.2 has been updated and approved by Council 72. The Secretariat is currently assigning MRN numbers to all publications and documents.

5.9 Committee work programme and structure

5.9.1 Committee Work Programme 2018-2022 and 2022-2026

The Secretariat is monitoring the progress of submissions for the future Work Programme. The PAP agreed to send a reminder to the committees for ideas for the future work programme using the *Drivers and Trends* document for inspiration.

Action item:

The Secretariat is requested to send the Council approved Work Programme 2018-2022 to all committees.

The Secretariat is requested to send a reminder to all committees for input on task items for the Work Programme 2022-2026.

5.9.2 Future committee structure

There were no matters arising, it was therefore agreed to defer this discussion to PAP42.

Action item:

That Members submit input on the matter of future committee structure to PAP42.

5.9.3 Upcoming events

5.9.3.1 Heritage seminar

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

5.9.3.2 Workshop on AtoN engineering

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

5.9.3.3 Workshop on Marine AtoN in the autonomous world

There is a Steering Committee arranged for the week beginning 8 February 2021 with the event taking place in May 2021. It was agreed by the PAP that although most events are to be delivered virtually it is still reasonable to charge a fee for events held using this method.

5.9.3.4 A joint IHO IALA Workshop on S-100/200 and portrayal

Due to the global pandemic this event is currently postponed until further notice. The Secretariat will liaise with IHO and arrange a Steering Committee as soon as is practicable.

5.9.3.5 Workshop on cybersecurity

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

5.10 Operations/Administration

5.10.1 IALA Dictionary

The Secretariat is endeavouring to invigorate the use of the Dictionary. Efforts to do this include the use of MRN and publishing the dictionary in other languages such as Spanish and French.

5.10.2 Communications

The PAP noted that the webinars that have been delivered during the global pandemic have been a success. The webinar series have included specific technical topics and new IALA documents.

5.10.3 Committee reports

The PAP recalled the changes that were made to reports following PAP40 and noted that the feedback from the committees had been positive regarding them. A wider review is planned to take place at the end of the current work programme.

5.10.4 Virtual committees

The PAP noted that minor changes to would be made to the dashboards and *Virtual Committee Working Arrangements*. The Secretariat are introducing a new calendar and table plug-in to the dashboards that will help participants filter and navigate. The PAP agreed that the *Virtual Committee Working Arrangements* would be amended with the following changes:

- Editorials to improve readability;
- Recognize that IALA has no set time window for meetings and task group leaders should consider the membership of their task group when scheduling meeting;
- That the Committee Chair, Working Group Chair and Task Group Leader would be the group to decide if a document goes forward for silent approval and handle comments when they are received; and
- That the Committee Chairs would have discretion over the period of silent approval but that this would be a minimum of 3 days.

5.10.5 IALA Style Guide

Thomas Southall informed members regarding the new IALA Style Guide. Although version 1 is now available it is a living document and will be regularly reviewed. The PAP welcomed the document and complimented this initiative.

5.11 Other

5.11.1 IALA AtoN Questionnaire

The Secretariat distributed the IALA questionnaire in 2019 and received 23 answers. It is expected that a minimum of 30 answers would be a good number for decent analysis. All members are still welcome to participate in this questionnaire (minsujeon@iala-aism.org).

5.11.2 IALA VTS Manual and procedures for update

The VTS Manual is now ready for publication and the VTS Chair thanked the Secretariat and the Editor, Neil Trainor for their hard work in finalizing the publication. The PAP noted input paper PAP41-5.11.2.1 and PAP41-5.11.2.1.1 regarding the procedure for updating the Manual. The VTS Committee and Secretariat will now adopt the procedure as laid out in the input paper.

5.11.3 IALA NAVGUIDE

Minsu Jeon briefed the work of NAVGUIDE version 2022 which is on track as planned. The Secretariat is planning to report on the status of its development at PAP42.

5.11.4 IALA VTS-ENAV Symposium

Maarten Berrevoets joined the meeting and Members noted the latest update from the Steering Committee of the IALA VTS-ENAV Symposium. The programme is now set and the Netherlands will send out invitations explaining to the speakers how to record their presentations. The event will be a hybrid event including virtual and live presentations and further publicity will follow. Registration for the event will be open soon.

There will also be a World-Wide Academy fringe session on VTS training on a separate platform to the Symposium. The Academy will liaise with the VTS Committee on the event.

6. STRATEGY AND POLICY

6.1 Strategic goals and policies

6.1.1 Drivers and trends

The PAP noted developments made by the Secretariat following comments from Council 72 (input paper PAP41-6.1.1.1). Developments to the document focused upon climate change, risk management and business continuity. Members reported that the US Coast Guard have taken climate change into consideration when assessing risk to Marine Aids to Navigation. The PAP suggested that the inclusion of a pandemic maybe appropriate when the document discusses natural disasters. It was agreed that the committees have a wealth of expertise in extreme weather, business continuity and sustainability and these topics will be taken into consideration when submitting tasks for the next Work Programme.

Action item:

*That the **Secretariat** propose to Council that pandemic situations should be mentioned in the Drivers and Trends document.*

6.1.2 Cross-committee coordination

Minsu Jeon presented input paper PAP41-6.1.2.1 on cross-committee coordination. He reiterated that this provided an overview of all communications and liaisons on task items from the Work Programme and stated that the Secretariat would update the document and submit them to the other committees.

Action item:

*That the **Secretariat** submits an updated input paper PAP41-6.1.2.1 on cross-committee coordination to all committees.*

6.1.3 IALA Position on the Development of AtoN Services

The Chair recalled input paper PAP41-6.1.3 *IALA Position on the Development of AtoN Services*. He then invited all Members and their committees to review it and provide input for the Secretariat to then update the document on topics such as MASS and DGNSS.

Action item:

*That the **Secretariat** submits the IALA Position on the Development of AtoN Services to all committees.*

*That **Members** and their committees review input paper PAP41-6.1.3 IALA Position on the Development of AtoN Services and provide input for the Secretariat to then update the document.*

6.1.4 Revision of IALA Standards

The PAP noted the timeline and process for updating the IALA Standards. The Secretariat thanked the committees for their work so far and will submit the comments received and resubmit the drafts to all committees. Recalling the schedule of the LAP it was noted that there may be a need for the Legal Advisory Panel to meet inter-sessionally in the future on this matter.

Action item:

*That the **Secretariat** submits the consolidated version of draft IALA Standards to all committees and LAP for second review.*

6.1.5 IALA's involvement in MASS

IALA Members from the Netherlands and Singapore joined the meeting to present their input to PAP (input paper 6.1.5.1). Captain Segar (Singapore) described the development of MASS around the world. Singapore has completed MASS trials and recalled that the 69th and 70th IALA Council meetings have discussed the fast development of MASS in the maritime domain and agreed that IALA should prepare for the introduction of MASS. The Netherlands had provided an input paper (C71-8.5.1) to Council 71 with a summary of the adaptation of MASS in IMO.

To integrate new and advancing MASS technologies into the regulatory framework, IMO have created a framework for MASS developments for the purpose of a scoping exercise on regulations (MSC 100 - 2018). Equally, evolving MASS technologies will impact the works of IALA. To develop regulatory framework for MASS and MASS-related infrastructure on the relevant Marine Aids to Navigation including VTS, the presenters mentioned it was necessary to consider MASS operations from the technological level, as well as the regulatory level. As MASS infrastructure spans across various IALA committees, it was proposed that an inter-committee taskforce be formed to coordinate the work across committees, as well as align the committee outputs presented to the IALA Council.

On behalf of the Netherlands, Harman van Dorser briefed PAP Members on the international collaboration and regulatory developments surrounding MASS. Recalling the input to Council 71, he described the Netherlands vision of the future which encompassed three elements - digital situational awareness, interacting objects and human behaviour aided by decision support tools. It was re-iterated that Marine Aids to Navigation development regarding MASS should be coordinated by IALA by the creation of a MASS taskforce. It was proposed that this taskforce would be coordinated by PAP. The presenters stated that it was their belief that IALA is the only organization that can drive this particular matter forward.

The presentations were positively received by PAP Members. The Secretary-General thanked the Netherlands and Singapore for their important input and described MASS as the core business of IALA in the future and a key driver going forward. The committees will progress their tasks on developing guidance at their next sessions between March and April 2021. It was acknowledged that many developments related to MASS had already been progressed such as VDES and S-100 / S-200.

Minsu Jeon re-affirmed that IALA will play a key role in the development of MASS. He introduced the Secretariat's input and proposal of terms of reference including deliverables for such a group to PAP (PAP41-6.1.5.2). Following discussions, the PAP agreed to establish the proposed group that will report to PAP, and that the Secretariat finalizes the terms of reference for the group and possible inclusion of additional clarifications such as deadlines for deliverables. It was considered that the committees should be represented by one nominated participant each. PAP also agreed that the Netherlands should provide the chair and Singapore the vice chair.

Action item:

*That the **Secretariat** finalizes the terms of reference for the proposed group that will coordinate IALA's work on MASS.*

*That the **Secretariat** make arrangements for the PAP to establish the proposed group coordinating IALA's work on MASS with a chair appointed from the Netherlands and a vice-chair from Singapore.*

6.1.6 Amendment to the 'ToR and Rules of Procedure for Committees'

The PAP considered a proposal to amend the 'ToR and Rules of Procedure for Committees'. It was noted that the aims of this amendment are:

- To acknowledge the evident desire from the membership to progress certain work items inter-sessionally.
- The removal of unnecessary obstacles and requirements in order to enable inter-sessional work to take place.
- To be a high level amendment leaving the details of operational specifics to be determined at the committee, PAP and LAP level.

- To enable an operational overview of inter-sessional work for Committee/Panel management and Secretariat.

General discussion highlighted that:

- there is a need to encompass cross-committee work within the amendment.
- that task groups place within the committee structure should be recognized within 'ToR and Rules of Procedure for Committees'.

Following this discussion it was proposed that Members provide input to PAP42 in order to finalize the amendment.

Action item:

*That **Members** provide input on the proposed amendment to the 'ToR and Rules of Procedure for Committees' in order that the text can be agreed at PAP42.*

6.2 Challenges and opportunities

6.2.1 COVID-19 response

Minsu Jeon reported to the PAP that following the last meeting IALA had presented a series of webinars entitled AtoN During Covid. The following presentations were given:

- Presentation by Chris Procter, CEO of Sealite Pty Ltd

An industrial members perspective on managing the continuity of product supply through the COVID-19 pandemic. Describing first-hand experience, Chris will talk about the challenges many businesses continue to face in operating in this unique environment and measures that can be taken to survive and thrive.

- Presentation by Liu Wei, Chief manager of Wu song VTS center (Shang hai, China),

Recommendations for VTS Response to COVID-19 Pandemic

Ships sailing among various ports around the world have the risks of carrying COVID-19. As a link between the ship and the shore, VTS can take full use of the advantages of fast access to ship and shore information and real-time ship dynamics, and play an active role in assisting ports to cope with COVID-19 pandemic.

- Presentation by R. David Lewald, navigation systems and aids to navigation specialist for the U.S. Coast Guard

A Discussion Regarding Impact of COVID-19 to the U.S. Coast Guard Aids to Navigation Program.

The U.S. Coast Guard presentation reviews the early actions taken by leadership and will review the various metrics used to assess the impacts of COVID to the provision of Aids to Navigation (AtoN). While the Pandemic appears to be far from over, it is envisioned that through dialogue among IALA membership regarding action taken and lessons learned can be shared to the benefit of all.

All webinars are available on IALA's YouTube Channel which can be found [here](#)

6.3 The IGO project

The Secretary-General reported that Ms Annick Girardin, Minister for Maritime Affairs of France, has signed the Convention on the International Organization for Marine Aids to Navigation on 27 January 2021 on behalf of the French Republic. The Convention is now open for signature by interested States during the next 12 months. Thereafter, it will be open for accession by any State that is a member of the United Nations. He stated that he is confident of speedy progress as many of the 50 States who agreed to adopt the Convention at the Diplomatic Conference held in Kuala Lumpur in February 2020 indicated their readiness to sign it. The text is now also ready in the six official languages of the UN and will soon be posted on the web site.

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 for 8 – 10 September 2021. IALA will continue to monitor the situation and update Members of any changes to the schedule.

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 E.
- 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.



41st Meeting of the IALA Policy Advisory Panel (PAP41)

The 41st meeting of the Policy Advisory Panel will be held on 3 – 5 February 2021, virtually. The timings of the meeting are:

Wednesday	03/02/2021	1000 - 1200 UTC
Thursday	04/02/2021	1000 - 1200 UTC
Friday	05/02/2021	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 work programmes for the committees for the period 2018-2022.

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 PAP40	TS Note
3	Review of input papers		
	3.1	Review of input papers to PAP41	TS Note
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	
	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

5.2	S1010 AtoN Planning and Requirements		
5.2.1	IMSAS	MJ	Discuss
5.3	S1020 AtoN Design and Delivery		
5.3.1	Tsunami monitoring	MJ	Discuss
5.4	S1030 Radionavigation Services		
5.4.1	Future of DGNSS	MJ	Discuss
5.5	S1040 Vessel Traffic Services		
5.5.1	Ship reporting guideline	MS, PD	Discuss
5.6	S1050 Training and Certification		
5.6.1	Distance learning	OFE	Note
5.7	S1060 Digital Communication Technologies		
5.8	S1070 Information Services		
5.8.1	IALA S-200 development	MJ	Note
5.8.2	Maritime Resource Name (MRN)	MJ	Discuss
5.9	Committee work programme and structure		
5.9.1	Committee Work Programme 2018-2022 and 2022-2026	MJ	Review
5.9.2	Future committee structure	MJ	Discuss
5.9.3	Upcoming events		
5.3.9.1.	Heritage seminar	SM	Discuss
5.3.9.2.	Workshop on AtoN engineering	SM	Discuss
5.3.9.3.	Workshop on Marine AtoN in the autonomous world	HN	Discuss
5.3.9.4.	Workshop on S-100/200	PD	Discuss
5.3.9.5.	Workshop on cybersecurity	PD	Discuss
5.10	Operations/Administration		
5.10.1	IALA Dictionary	MJ	Discuss
5.10.2	Communications	AG	Discuss
5.10.3	Committee reports	TS	Discuss
5.10.4	Virtual committees	TS	Discuss
5.10.5	IALA Style Guide	TS	Note
5.11	Other		
5.11.1	IALA AtoN Questionnaire	MJ	Discuss
5.11.2	IALA VTS Manual and procedures for update	MS	Note
5.11.3	IALA NAVGUIDE	MJ	Note
5.11.4	IALA VTS-ENAV Symposium	OFE	Note

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
6.1.6	Amendment to the 'ToR and Rules of Procedure for Committees'	TS	Discuss
6.2	Challenges and opportunities		
6.2.1	COVID-19 response	MJ	Discuss
6.3	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 E **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
IALA VTS-ENAV Symposium	Host	Maarten Berrevoets maarten.berrevoets@minienm.nl
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
PAP41-	1.2.1	Provisional Agenda	IALA Secretariat
PAP41-	2.1.1	Action items from PAP40	IALA Secretariat
PAP41-	3.0	Input paper template	IALA Secretariat
PAP41-	3.1.1	List of Input Papers	IALA Secretariat
PAP41-	4.1.1.1	Final report Council 72	Council 72
PAP41-	4.2.1	Report Of The Maritime Safety Committee on its 102nd Session (Secretariat) (MSC 102-24)	IMO
PAP41-	4.4.1	Cross-committee work on ITU matters	ENAV Chair
PAP41-	4.4.1.1	Liaison to IMO IALA CIRM on revision Rec ITU-R M1371-5	ENAV Chair
PAP41-	4.5.1.1	ENUW AP 2020	IALA Secretariat
PAP41-	5.5.1.1	Draft Guideline on Ship Reporting from a shore-based perspective (C72-11.2.6)	C72
PAP41-	5.9.1.1	Committee Work Programme for 2018-2022 (C72-11.1.2)	C72
PAP41-	5.10.4.1	Current IALA Virtual Committee Working Arrangements	IALA Secretariat
PAP41-	5.10.5.1	IALA Style Guide Ed 1.0 January 2021	IALA Secretariat
PAP41-	5.10.5.2	Rxxxx Template for IALA Recommendation Ed 1.0 January 2021	IALA Secretariat
PAP41-	5.10.5.3	Gxxxx Template for IALA Guidelines Ed 1.0 January 2021	IALA Secretariat
PAP41-	5.11.2.1	Framework for Updating the VTS Manual	VTS49
PAP41-	5.11.2.1.1	Annex - Framework for Updating the VTS Manual	VTS49
PAP41-	6.1.1.1	Updated Draft Current Drivers and Trends Ed1.3 Post C72	IALA Secretariat
PAP41-	6.1.2.1	Cross-committee Work PAP41	IALA Secretariat
PAP41-	6.1.5.1	Impact of MASS on Marine AtoN	Netherlands and Singapore
PAP41-	6.1.5.2	Impact of MASS - Secretariat Paper	IALA Secretariat
PAP41-	6.1.6.1	Proposed amendment to the ToR and Rules of Procedure for Committees	IALA Secretariat

ANNEX D

LIST OF OUTPUT PAPERS

Meeting	Agenda Item	OUTPUT PAPERS
PAP41-	8.1	Report of PAP41
PAP41	8.2	MSC103 IMSAS manual update by IALA

ANNEX E ACTION ITEMS

1. That the **ENAV, VTS and ARM committees** to liaise and coordinate a response regarding the revision of ITU-R M.1371-5 “Technical characteristics for an automatic identification system using time division multiple access in the VHF maritime mobile frequency band” to Council in order to provide a submission to the ITU by 26 April 2021. 8
2. That **Members** submit input on the matter of future committee structure to PAP42. 14
3. That **Members** and their committees review input paper PAP41-6.1.3 IALA Position on the Development of AtoN Services and provide input for the Secretariat to then update the document. 16
4. That **Members** provide input on the proposed amendment to the 'ToR and Rules of Procedure for Committees' in order that the text can be agreed at PAP42. 18
5. The **Secretariat** to follow the work of committees on the portrayal topic and provide input to the next PAP for further discussion. 7
6. The **Secretariat** is requested to prepare an input paper on ESNB work to ENG 13 for further discussion. 12
7. The **Secretariat** is requested to send the Council approved Work Programme 20218-2022 to all committees. 14
8. The **Secretariat** is requested to send a reminder to all committees for input on task items for the Work Programme 2022-2026. 14
9. That the **Secretariat** propose to Council that pandemic situations should be mentioned in the Drivers and Trends document. 16
10. That the **Secretariat** submits an updated input paper PAP41-6.1.2.1 on cross-committee coordination to all committees. 16
11. That the **Secretariat** submits the IALA Position on the Development of AtoN Services to all committees. 16
12. That the **Secretariat** submits the consolidated version of draft IALA Standards to all committees and LAP for second review. 16
13. That the **Secretariat** finalizes the terms of reference for the proposed group that will coordinate IALA’s work on MASS. 17
14. That the **Secretariat** make arrangements for the PAP to establish the proposed group coordinating IALA’s work on MASS with a chair appointed from the Netherlands and a vice-chair from Singapore. 17



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