IALA POLICY ADVISORY PANEL

Report of the 38th session of the IALA Policy Advisory Panel (PAP)

11 - 13 September 2019

13 September 2019

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Executive Summary

The 38th session of PAP was held at IALA Headquarters from 11 to 13 September 2019.

The meeting was updated on the latest decisions made at Council that have an impact on the work of the Committees.

The progress made in the revision of IMO Resolution A.857(20) on Vessel Traffic Services was noted as nearing completion with a submission to IMO planned for early 2020.

The work on the IALA Position Paper on Marine Aids to Navigation was completed and will be forwarded to Council.

Consideration was given to the update and release of the IALA NAVGUIDE, VTS Manual and Questionnaires.

Discussions around the WWA looking further into VTS training and accreditation system. A VTS strategy was to be discussed at the Academy board.

The Chair of the ENAV committee introduced a new working group concerning the identification and assessment of technologies through a process of initial review.

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Report of the 38th Session of the IALA Policy Advisory Panel

GENERAL

The 38th meeting of the Policy Advisory Panel (PAP) was held from 11 to 13 September 2019 at IALA Headquarters, with IALA Deputy Secretary-General Omar Frits Eriksson as Chair and IALA Technical Officer Thomas Southall as Secretary.

1. INTRODUCTION

1.1 Administration and Safety Briefing

The safety briefing was given by Thomas Southall.

1.2 Welcome by the Secretary-General and Deputy Secretary-General

Secretary-General Francis Zachariae reported on the numerous developments that had taken place since the last PAP meeting:

- **Secretariat staff –** the staff are now all permanent and it is hoped that the membership now feels the benefits of this arrangement.
- **Membership –** membership is growing at a very positive pace and has increased to 303. This is seen to be as a result of the professional work carried out by the Committees and the World-Wide Academy and also the work carried out by the IMC to provide added value to Industrial Members. A recruitment campaign is soon to be launched that will focus upon new national members, particularly from Africa, and industrial members.
- **The IGO project** – a successful 3rd Preparatory Conference was held earlier in March in Istanbul. The progress made at this meeting has paved the way for a Diplomatic Conference held in Malaysia to be scheduled 25–28 February 2020 with an IALA World-Wide Academy Seminar on the Safety of Navigation on the 24 February.
- **Council 69 –** the Council had a successful meeting with many new members very active. A strategic workshop was held that identified eight trends that influence IALA's work.
- **Revision of the IMO Guidelines on VTS –** The work conducted by the VTS Committee correspondence group on the review of A.857(20) was praised for its pro-activity, in particular, the leadership of Neil Trainor (AMSA) on this task was highlighted as instrumental to the progress of the task. The seminar held on this subject at IALA HQ in June was deemed to be a success and the Committee are on-track to submit the draft resolution to IMO NCSR 7 from VTS 47.
- **World Marine Aids to Navigation (WAtoN) Day –** the first WAtoN day was held in July. It was a tremendous success with a huge participation from many members around the world. A particular highlight was the presentation of the first Lighthouse of the Year, presented to Cordouan Lighthouse in France.
- **Industrial Members Committee (IMC) –** the committee met in Rio De Janeiro, Brazil in April to commence the planning of the conference. Members expressed that they were very content with the facilities for the conference that they were shown. The IMC also worked on a document that set out the value that membership to IALA gives them.

Secretary-General Francis Zachariae concluded by adding that he had facilitated a United Nations meeting on Tsunami warnings and reported that there was an appetite for more measures relating to this area.

Deputy Secretary-General Omar Frits Eriksson welcomed members to PAP and expressed that he believed that the Panel was achieving its objectives in terms of coordination and guidance on policy.

1.3 Approval of Agenda

The agenda (input paper PAP38-1.3.1) was approved. The approved Agenda is provided in ANNEX A.

1.4 Apologies and Introductions

Phil Day the Chair of the ARM Committee submitted apologies for the meeting.

2. REVIEW OF ACTION ITEMS FROM THE LAST MEETING

2.1 Review of Action Items from PAP 37

Input paper PAP38-2.1.1 refers.

The list of action items was reviewed from PAP 37. All action items were completed except for 6, 16 and 17 which relate to the Committee websites and these items will be completed before spring 2020.

Action item 5 relating to the establishment of an inter-committee task force for writing product specifications and the process for how Committees can provide the necessary information to this task force will also be progressed going forward.

3. REVIEW OF INPUT PAPERS TO PAP38

Members noted the input paper list to PAP38.

4. REPORTS FROM OTHER BODIES

4.1 IALA

4.1.1 IALA Council

Input paper PAP38-4.1.1.1 refers.

Members received a report from Council 69 from Minsu Jeon, Technical Operations Manager. The 69th session of the IALA Council was held onboard SS Rotterdam in Rotterdam, The Netherlands. Issues discussed at Council 69 included a strategy workshop, the future of DGNSS and the impact of MASS on VTS.

A Council strategy workshop, chaired by the Councillor for Germany, Christian Forst, was held on Monday 17 June. The purpose of the workshop was to create a joint picture of possible future maritime trends and global developments which are most likely to have an impact on IALA and to identify how these may affect the association's priorities, organization and activities. The global maritime trends identified are:

.1 Increased Digitalization, including big data and future communication;

.2 Development of autonomous, automated and unmanned vessels;

.3 Need for increased connectivity and interoperability;

.4 Cyber-crime vulnerability and cyber security;

.5 Changes in trade patterns due to global economic developments;

.6 Large cruise ships going to remote locations like the Arctic;

.7 Competing use of the oceans (Marine Spatial Planning); and

.8 Demand for efficiency in the transport chain.

The future of DGNSS was discussed as many authorities around the world were facing the need to refurbish their DGNSS/DGPS stations. The General Lighthouse Authority gave a detailed presentation on the results of a user consultation and options for the future, taking into account the development of SBAS. There was general support from Councillors for holding a workshop on the future of radiobeacon DGNSS and the Secretariat was tasked to develop a workshop proposal, in cooperation with the ARM and ENG Committees,

which has now been approved. The venue and date of the workshop was agreed to be the Northern Lighthouse Board (NLB) Headquarters in Edinburgh on the 27 – 31 January 2020 unless there is a significant need to change.

With regards to MASS, the Councillor for The Netherlands in cooperation with the Secretariat will prepare a paper on the impact(s) of MASS on VTS, for consideration by the Council Strategy Drafting Group at its next meeting.

All submission to Council 69 from the Committees were approved.

4.2 IMO

4.2.1 IMO Council

The 122nd session of the IMO Council was held from 15 to 19 July 2019 at IMO HQ London from 16th to 26th January 2019.

Agenda items of interest to IALA were:

- The Strategy, Planning And Reform of the IMO Council; and
- A revised overall IMO Member State Audit Scheme schedule.

4.2.2 IMO MSC

Input document PAP38-4.2.2.1 refers.

The 101st session of the IMO Maritime Safety Committee was held at IMO HQ in London from 5th to 14th June 2019.

IALA submitted two information papers to the meeting;

- MSC 101/23/11 Progress on the review of the Guidelines for Vessel Traffic Services (resolution A.857(20)); and
- MSC 101/INF.8 - World Marine Aids to Navigation Day.

The documents were presented at the plenary and supported by Brazil and Japan.

The Regulatory Scoping Exercise of MASS was progressed and the Committee agreed to continue the work at an Intersessional Working Group in September. A number of basic principles for interim guidelines for MASS trials were agreed to essentially emphasizing that the guidelines should set high level objectives, be generic, goal-based and functional.

Dave Lewald, Vice-Chair of the ARM Committee, reported that the Facilitation (FAL) Committee has a lot of work relating to IALA and the association should therefore be represented there.

Action item;

*The **IALA Secretariat** to follow the work of the IMO FAL Committee as there is work relating to IALA being discussed.*

4.2.3 IMO NCSR

The 7th session of the Sub-Committee on Navigation, Communications and Search and Rescue (NCSR) will be held at IMO Headquarters from Wednesday 15 to Friday 24 January 2020.

Input Deadline is 15 October for bulky documents and 12 November 2019 for non-bulky documents. It is expected that the Sub-Committee will consider a paper on the revision of the IMO Guidelines on VTS from the VTS Committee and possibly from the ENAV Committee on the AMRD issue.

4.3 IHO

4.3.1 Technical Coordination Meeting

Minsu Jeon, reported that the 3rd IHO IALA Technical coordination meeting will be held at IALA during ARM 10. IHO will be represented by Tony Pharao, Assistant Director. Many topics will be discussed, in particular:

- The charting requirements for new combinations of fixed and flashing lights E-110 (Ed 4);
- Currently in IHO publication INT 1 – Chart Symbols and Abbreviations, the IHO only show FFL and do not have FIso, FQ etc . The IHO has noticed that edition 4 of IALA E-110 changes the guidance previously included in edition 3 for FFL. To ensure consistency between IALA and IHO specifications they are considering adding these extra light categories to IHO product INT 1 so that they may be included on charts. Before IHO included them in the specifications they would like to confirm IALA's requirements at the meeting.
- Update on the GI Registry;
- S-100 - future editions;
- Update on relevant IHO Product Specifications;
- Discussion regarding proposal for S-125;
- Update on S-201 Test Bed;
- Update on S-211;
- Discussion regarding MRN;
- APPweb; and
- Mobile AtoN.

Action item;

*The **ENG Committee** to send a participant to attend IHO Technical Communication Meeting during ARM10.*

4.4 ITU

4.4.1 Autonomous Maritime Radio Devices / Mobile Aid to Navigation

PAP noted that, unfortunately, if the ITU working party denies the recommendation on AMRD then there will be no submission to the World Radio Conference as they will not be able to allocate a frequency for AMRD.

4.4.2 VDES & VDES R-Mode

PAP members were pleased to note that a successful workshop was being conducted on ranging mode (R-Mode) concurrently with the PAP38 meeting. The status of the work on VDES, in ITU terms, is that satellite frequencies must be allocated to it at the World Radio Conference 2019. VDES trials are currently being executed and planned with many members such as China.

It was noted that the work on R-mode and VDES falls between the ENG and ENAV committees and should be coordinated well between these two committees as this will be integral to the success of the work.

Action item;

*The **ENG and ENAV Committees** to coordinate their work on VDES and R-Mode.*

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

Members noted that there has been a positive and constructive meeting with CIRM to identify common areas of interest such as VDES, R-Mode, joint workshops/seminars and 3gpp.

However, there had been no coordination lately as regards PIANC and IHMA and Minsu Jeon requested support from the Committees.

4.5.1 e-Navigation Underway

Input document PAP38-4.5.1.1 refers.

The highlights of e-Navigation Underway 2019 Asia Pacific were introduced by Minsu Jeon. The PAP noted that Korea had launched a consolidated website for e-Navigation Underway events - https://www.e-navap.org/.

4.5.2 3GPP

The Deputy Secretary-General explained that 3rd Generation Partnership Project (3GPP) have approached IALA for input to describe the user needs for 5G. It was noted that more involvement and active participation is required in order for IALA members needs to be met and that this should be discussed further at the ENAV Committee.

5. COORDINATION

5.1 Progress reports

5.1.1 ENAV

Input documents PAP38-5.1.1.1, PAP38-5.1.1.2 and PAP38-5.1.1.2.1 refers.

Hideki Noguchi, Chair of the ENAV Committee, reported that the 23rd session of the ENAV Committee was held at the InterContinental Hotel, Singapore, between the 1 and 5 April 2019.

123 Participants from 27 countries and 3 Sister organisations participated in ENAV23, 30 for the first time. There were 6 observers.

Key outputs included:

The completion of the following revised Guidelines:

- Guideline G1139 on Technical Specification of VDES.

The Chair of ENAV introduced input papers PAP38-5.1.1.2 and PAP38-5.1.1.2.1 on the Identification and Assessment of Technologies liaison note and annex. Discussion concluded that:

- The proposed process will only deal with emerging technologies and there will be no endorsements – only assessments according to the proposed template;
- The process for selection of technologies to be reviewed was explained;
- It may be useful to re-review technologies periodically as they may have matured;
- The process adds rigour to IALAs work;
- The addition of a field to indicate which Committee the technology may be of use to;
- The results of these assessments should be submitted to PAP as the results are potentially cross-committee; and
- That the Working Group should assess LI-FI and VLC (Visible Light Communication) technologies.

Some concerns were raised at the meeting on what task(s) the proposed working group should refer to in the Work Programme for 2018-2022. Also IALA's role in assessing technologies were mentioned when such assessments may not take into account all the developments within a specific area.

Hideki Noguchi then introduced input document PAP38-5.1.1.1 A Lay-Persons Description of e-Navigation and members noted the document with no substantial comment.

5.1.2 VTS

Monica Sundklev, Chair of the VTS Committee, reported that the 46th Session of the VTS Committee was held at the Westin Chosun Hotel in Busan, the Republic of Korea between the 25 February and 1 March 2019. The meeting was hosted by the Korea Coast Guard who also arranged a technical tour and social programme.

101 participants from 25 countries, 3 Sister organisations and 4 observers participated in VTS46. Although the meeting was attended by a high number of participants, many of the participants (including chairs and vice-chairs of the working groups) normally attending the Committee meetings in Paris, were not able to attend when the meeting was held in Asia, which affected the efficiency of the Committee work.

Key outputs included:

- Guideline on promulgating the requirements of a VTS to mariners - The draft Guideline on Promulgating the Requirements of a VTS to Mariners, a VTS Users Guide Template (Task 1.2.3) was completed and forwarded to Council for approval.
- Revision of IMO Guidelines for Vessel Traffic Services – Based on the input from the Correspondence Group (Revision of IMO Guidelines for VTS) and advice from the IMO Secretariat, significant progress was made with regards to the revision of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services (Task 1.1.1).

2019 has seen two successful VTS events - VTS46 was preceded by a workshop on the Workshop on the Harmonization of VTS Voice Communication and a seminar on the revision of the IMO guidelines on VTS.

5.1.3 ENG

Input document PAP38-5.1.3.1 and PAP38-5.1.3.2 refers.

Simon Millyard, Chair of the ENG Committee, reported that the ninth meeting of the ENG Committee (ENG9) was held from 18 to 22 March 2019 in IALA HQ.

The session was attended by 76 participants from 22 countries, of which 48 were National members, 14 were Industrial members, 1 Honorary member, 13 were Associate members.

Key outputs included:

- A Guideline Application of Retroreflecting Material on Marine Aids to Navigation;
- A Guideline 1091 Bird fouling and deterrent; and
- IALALITE-IALABATT workshop proposal for 2021.

Members noted that the heritage forum is now Working Group 4 chaired by Peter Hill, Trinity House. World Marine Aids to Navigation Day was a success that included the first Lighthouse of the Year Award.

Input document PAP38-5.1.3.1 on ENG Working Group Terms of Reference was reviewed with no substantive comment.

Input document PAP38-5.1.3.2 on the draft Recommendation R1004 Ed1 on environmental management in the provision of marine aids to navigation was reviewed and members provided comments on the draft and proposed a new title of the Recommendation to read Sustainable management in the provision of marine AtoNs. Comments are provided in track changes in output document PAP38-5.1.3.3 Draft Recommendation R1004 Ed1 Sustainability Recommendation Post PAP Review (PAP38-5.1.3.2) and will be submitted to ENG10.

Action item;

*The **IALA Secretariat** to forward output document PAP38-5.1.3.3 Draft Recommendation R1004 Ed1 Sustainability Recommendation Post PAP Review (PAP38-5.1.3.2) ENG10 to take into account the panel's comments when finalizing the draft recommendation.*

5.1.4 ARM

Input papers PAP38-5.1.4.1 and PAP38-5.1.4.1.1 refers.

Dave Lewald, Vice-Chair of ARM reported that the 9th Session of the ARM Committee was held at IALA Headquarters from 1 to 5 April 2019.

The session was attended by 59 participants from 20 countries, of which 40 were National Members, 5 were Industrial Members, 11 were Associate Members, 2 were representing Sister Organizations and 1 was an observer.

Key outputs included:

- Guideline on Requirements and Traceability Ed.1.0
- Guideline on Unique Identifiers for Maritime Resources Ed.1.0

- Update to Guideline 1046 Response Plan for Marking New Wrecks Ed.2.0

The Committee updated the following Model Course:

- Update to Model Course L1.3 on Aids to Navigation manager training level 1 – use of the IALA risk management tools Ed.3.0

The Committee prepared the following workshop proposal:

- Workshop Proposal for a Joint IHO/IALA Workshop on S100/S200 Product Specification development and portrayal.

The ARMs committees work for 2018-2022 is on schedule to be completed. AT ARM9 Natasha McMahon of the Canadian Coast Guard has volunteered to fulfil the role of the NAVGUIDE representative for the committee.

The vice-chair introduced input paper PAP38-5.1.4.1 Guiding Principles for ongoing MAtoN work and members duly noted the document with no further comment.

The recommendation relating to this work will be amended to reflect the guiding principles. And acknowledged that his task must progress in a co-ordinated fashion between all organisations involved.

5.1.5 IMC

Malcolm Nicholson, IMC representative to PAP, reported that the committee met in Rio De Janeiro, Brazil in April to commence the planning of the conference. The IMC expressed that they were content with the facilities for the conference. The IMC also worked on a document that set out the value that membership to IALA gives them.

5.1.6 LAP

The Chair of LAP, Christina Schneider, reported that the panel met for its 19th session in April earlier this year after a break of one year and a half due to the focus upon the change of status work that had been undertaken by members. She expected LAP to provide an update to the basic documents by June 2020. The PAP happily noted the work of the legal advisory panel on the revision of the IMO resolution on vessel traffic services and described the liaison as very productive that ultimately has strengthened the document. Christina Schneider then encouraged committee chairs to use LAP and submit any issues to the panel in order that they can provide advice wherever required.

Action item;

*The **LAP Committee** to check the Committee Reports for any possible advice that could be beneficial to the committee work.*

5.1.7 WWA

Omar Frits Eriksson gave a presentation covering the Academy's activities. The three main areas of work for the Academy are - Education and Training, Capacity Building and Research and Development.

The WWA is trying to achieve IALA Strategic Goal 2 - *All coastal states have contributed to an efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.*

Omar Frits Eriksson went on to describe the achievements of the Academy including:

- Education and Training
  - 20+ Accredited AtoN Training Organisations
  - 29 Accredited VTS Training Organisations (11 new)
  - 280+ trained in the use of IALA Risk Management Toolbox
  - 200+ certified AtoN Managers
- Capacity Building
  - 7 High Level Visits and 22 Awareness Seminars

- 100+ participating countries
- 1000+ individuals
- 40+ Technical Needs Assessment Missions

- Research and Development
  - Cooperation with Jimei University, China
- Sustainable funding
  - 3-5 year Agreements

The WWA will continue to focus upon:

- Those with greatest need - Target States;
- Review of progress – longer term relationships with States in need;
- Ensure Training Quality - Accredited Training Organisations/ Train the Trainer;
- Strengthen Distance Learning – Learning Management Platform; and
- Connecting people - Alumni activities to ensure sustainable learning.
- Delivering as One - United Nations strategy of "Delivering as One".

The Dean then announced that the WWA would be holding a safety of navigation seminar the day before the Diplomatic Conference in Kuala Lumpa, Malaysia on the 24th February 2020 and all are welcome to attend.

5.2 S1010 AtoN Planning and Requirements

No matters to discuss.

5.3 S1020 AtoN Design and Delivery

5.3.1 Tsunami Monitoring System

The proposal of IALA undertaking work for a tsunami monitoring system accompanying a AtoN was discussed. It was noted that there was already work within the ENG committee being undertaken on complementary use of AtoN that could encompass such a system. The ENG committee was urged to consider adopting a task focusing on tsunami and oceanographic measuring. The task should be developed in cooperation with the other committees and may include a recommendation/guideline and a workshop / seminar on the subject.

Action item;

*The **ENG Committee** to consider adopting a task focusing on tsunami and oceanographic measuring. The task should be developed in cooperation with the other committees and may include a recommendation/guideline and a workshop / seminar on the subject.*

5.4 S1030 Radionavigation Services

5.4.1 Future of DGNSS

It was recognised that many DGNSS stations are at the end of their lifespan and that Australia, the US and Japan are shutting down infrastructure although the Republic of Korea is investing. IALAs current advice is to encourage Authorities to provide DGNSS but if not then to keep the infrastructure for future uses such as R-Mode.

5.4.2 Workshop

The PAP gratefully noted the Northern Lighthouse Board had offered to host a workshop in Edinburgh on the Future of Marine Radiobeacon DGNSS. The steering committee had agreed for the event to take place between 27-31 January 2020 with a purpose to discuss and develop guidance on the future of radiobeacon DGNSS, through knowledge sharing, defining the future requirements for PNT services and discussing the

future of DGNSS. This will enable IALA guidance on DGNSS to be updated. The chair of PAP encouraged all members to attend the workshop.

5.5 S1040 Vessel Traffic Services

5.5.1 Revision of IMO Resolution A.857(20)

Input papers PAP38-5.5.1.1 and PAP38-5.5.1.1.1 refers.

The update on the work on this specific task by the VTS committee was introduced by Monica Sundklev. The VTS Committee had achieved its aim to produce a clear and concise document that would provide guidance for vessel traffic services for the foreseeable future. The resolutions journey from VTS47 was discussed and presented in a timeline. The PAP acknowledged that following the documentations submission, a question and answer paper would be developed for questions received in and around NCSR7. The Secretary-General thanked Monica and the VTS committee for their work and highlighted the efforts of Neil Trainor of AMSA who had steered and guided this very important work.

5.6 S1050 Training and Certification

5.6.1 AtoN and VTS Training Delivery Worldwide

The examinations for IALA model courses are set by the WWA. The academy would like to look at this for VTS training in the future and are now taking a closer look at the accreditation system currently in place. This is all part of work currently focusing around an overall VTS training strategy that is to be discussed at the upcoming WWA board.

It was also discussed and acknowledged that there still remains unawareness of IALA documentation relating to ENAV and that this may be an area that could be addressed through education and training in the future. Panel members then expressed another possible area for development could be a general AtoN introductory course for new managers.

5.7 S1060 Digital Communication Technologies

5.7.1 Evolution of Analog to Digital Voice Radio

Hideki Noguchi reported that work in this area was still ongoing, particularly the allocation of frequencies for digitalized voice communications at ITU WRC-23. The panel was supportive of the evolution and the two main benefits of digital voice radio of frequency efficiency and audio quality were re-iterated.

5.8 S1070 Information Services

5.8.1 IALA-IHO Technical Coordination (S-200)

Minsu Jeon, reported that the 3rd IHO IALA Technical coordination meeting will be held at IALA during ARM 10. IHO will be represented by Tony Pharao, Assistant Director. Many topics will be discussed, in particular:

- The charting requirements for new combinations of fixed and flashing lights E-110 (Ed 4);

  Currently in IHO publication INT 1 – Chart Symbols and Abbreviations, the IHO only show FFL and do not have FIso, FQ etc. The IHO has noticed that edition 4 of IALA E-110 changes the guidance previously included in edition 3 for FFL. To ensure consistency between IALA and IHO specifications they are considering adding these extra light categories to IHO product INT 1 so that they may be included on charts. Before IHO included them in the specifications they would like to confirm IALA's requirements at the meeting.

- Update on the GI Registry;
- S-100 - future editions;
- Update on relevant IHO Product Specifications;
- Discussion regarding proposal for S-125;
- Update on S-201 Test Bed;

- Update on S-211;
- Discussion regarding MRN;
- APPweb; and
- Mobile AtoN.

5.8.2 Cyber Security

The workshop on cyber security to be held in Quebec, Canada 26-30 October 2020 was introduced. The significance of cyber security in the maritime industry was emphasised particularly with the advent of the internet of things that has led to integrated systems. Discussion identified areas of most concern to the sector that may be considered for discussion, such as:

- Lazy practices;
- Level of risk;
- Guidance already available such as CIRM and IEC standards.
- AIS spoofing; and
- Maritime experience of cyber attacks.

Action items;

*The **IALA Secretariat** to create a fileshare area for committee members to populate with historic cybercrime related case studies or any other useful information regarding this topic.*

*The **ARM Committee** to continue to coordinate the steering committees regarding the Cyber Security workshop.*

5.8.3 Maritime Resource Name (MRN)

Input paper PAP38-5.8.3.1 refers;

Minsu Jeon introduced the input paper and updated PAP on how the MRN process worked. The question as to whom is responsible for the management of 'waterways' MRN whether it is the IHO or IALA. The secretariat informed members that the discussions to answer who has the waterway ID management was ongoing and will be decided in the near future.

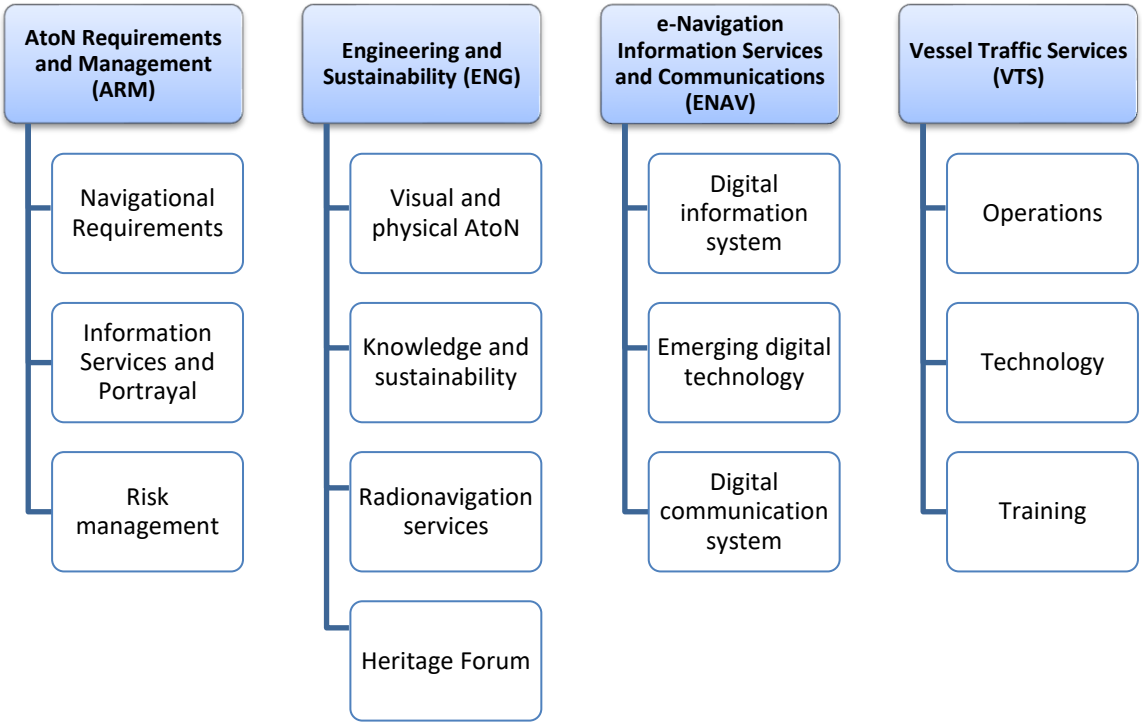
5.9 Committee work programme and structure

5.9.1 Committee Work Programme 2018-22

The *Work Programme* was presented by Minsu Jeon. It was noted that the *Task Register* and the *Work Plan* are working documents for the Committees management teams to maintain, but the Committees also need to revise the WP more closely. PAP members discussed the paper and there was a request that the tasks that had moved from ENAV to ARM and ENG would be updated accordingly.

5.9.2 Structure of Committees

Minsu Jeon presented the structure of committees and displayed the following current structure:



Members noted and agreed the structure displayed by the secretariat.

5.9.3 Committee meeting and Events Dates

Input paper PAP38-5.9.3.1 refers.

The committee meetings were displayed for the second half of 2020 and agreed upon with confirmation that ENAV26 would be held at IALA headquarters. The current event list was also noted and members commented positively that IALA is at its busiest that it has been in recent times. There was also discussion that there could be consideration given to a future workshop on complementary use of marine aids to navigation that could encompass tsunami and oceanographic measuring functions.

5.10 Operations/Administration

5.10.1 IALA Dictionary

The PAP was informed that 26 definitions had been uploaded in 2018 and the dictionary was published in 3 languages (English, French, Spanish). The management procedures for the dictionary were discussed including the link with the MRN system and members noted the secretariats work in this area. The secretariat asked Committees to submit any new terms.The secreatariat will develop new procedures which will be presented at the next PAP-meeting.

5.10.2 File Sharing (Pydio)

Thomas Southall gave an update to PAP regarding the status of the File Sharing system. Following PAP37 each committee now had there own permanent area and this arrangement was working well. Unfortunately, the File Share system is still unstable if used with Google Chrome browser and members were urged to use Microsoft platforms instead.

5.10.3 SLIDO

Members were updated on a new tool by Thomas Southall called SLIDO. This is question and answer platform that can be used for interaction between the secretariat/committee leadership and participants. This includes tools for functions such as polls that participants can answer or announcements that may need to be made. SLIDO was tested during the 857-seminar where it worked very well. A demonstration was made and members welcomed the introduction of the new tool to the committees.

5.10.4 Committee Surveys

Input papers PAP38-5.10.4.1, PAP38-5.10.4.2, PAP38-5.10.4.3, PAP38-5.10.4.4 refer.

The Committee survey was introduced by Audrey Guinault and the findings were discussed. Feedback was mostly positive with little negative comment, Audrey Guinault confirmed that IALA would continue to send Committee surveys out to participants as the feedback had been useful. PAP members added that they would be most interested to receive feedback from first time attendees and it was agreed that questions relating to this would be added. The response rate could also be higher.

Action item;

*The **IALA Secretariat** to consider adding questions in the post-committee questionnaire relating to the experience of first time attendees.*

5.10.5 Secretariat Services and Resources

The Deputy Secretary-General reported to members the current status of secretarial services provided to the committees. He then asked the committee leadership for feedback on the service they receive. Members replied that they felt that they were very happy with IALA and that the fun, professional and friendly atmosphere was still strong. Discussion turned to how IALA could integrate new joiners even further and it was agreed that buddy systems could be implemented between people with similar backgrounds and a personal welcome could be given. The secretariat agreed to amend Chairs and Vice-Chairs name badges to indicate who they were so that newcomers could identify them easily.

Action item;

*The **IALA Secretariat** to amend Chairs and Vice-Chairs name badges to indicate who they were so that newcomers could identify them easily.*

5.10.6 Communications

Audrey Guinault, Communications Manager, explained the process of keeping members up-to-date with IALA news. Mediums used for this purpose included LinkedIn, Twitter, Facebook, the Bulletin and e-Bulletin. Since PAP37 IALA has now developed a communication policy that will lead to communication plans for every IALA event also when Council has approved new documents. She reported that IALA now had a facebook page that was proving very popular with participants and the general public in communicating the role of IALA.

5.10.7 IALA Symposium

PAP38 was preceded by a Steering Committee meeting for the IALA VTS and ENAV Symposium. At this meeting members successfully completed the paper selection process, finalised the timings of the programme and session themes and chairs.

5.10.8 Committee Websites

Work to update the committee websites continues. The secretariat will continue to liaise with the committee leadership teams to ensure that their respective roles and work are clear in the public area of the website to all visitors. Several improvements were noted to make sure the information on IALA website is clear and easy to find. The members also noted the problem of different presentation of the website depending on whether Internet Explorer or Google Chrome were used.

Action item;

*The **IALA Secretariat and Chairs** to update Committee websites including the introductory PowerPoint presentations before spring 2020.*

5.10.9 Committee Reports

Thomas Southall facilitated a short discussion on the content and format of committee reports. Members commented that they were content with the reports but the secretariat should always consider alternative ways of presenting them that may streamline the process of compiling reports and improve the readability for participants.

5.10.10 Chair / Participant Guidance

The 2019 spring round of committees highlighted the importance of having comprehensive guidance for both participants and chairs. This guidance will assist the quality and depth of committee output and promote awareness of IALAs role with all participants. PAP members welcomed this initiative and noted that the work had begun within the secretariat by Thomas Southall and he will liaise with chairs as the work progresses.

5.11 Other

5.11.1 IALA AtoN Questionnaire

Input paper PAP38-5.11.1.1 refers;

Amendments to the IALA AtoN Questionnaire that were made at ARM9 were displayed to members. PAP noted that there were a number of questions relating to VTS. With the upcoming release of the VTS questionnaire, it was deemed that these questions were no longer necessary for the AtoN questionnaire and that once they had been removed, the questionnaire was ready to be finalised for release.

Noting that there are two questionnaires released by IALA it was agreed that the branding, platform and procedures of any current or future IALA questionnaires should be the same.

Action item;

*The **IALA Secretariat** to remove all VTS questions from the IALA AtoN Questionnaire in order to avoid duplication with the VTS Questionnaire.*

*The **IALA Secretariat** to finalise the IALA AtoN Questionnaire and relese it to IALA members.*

5.11.2 IALA VTS Questionnaire

Monica Sundklev informed PAP regarding the ongoing work of this task and that the coordination group for the VTS Questionnaire was of the opinion that the preferred solution would be that IALA takes technical ownership of the data servers containing the VTS questionnaire. Discussion highlighted that the secretariat does not have the technical capacity to administer the current questionnaire that remains dormant following its release in 2016. A possible solution could be the use of a suitable off the shelf product such as survey monkey. Noting that there are two questionnaires released by IALA it was agreed that the branding, platform and procedures of any current or future IALA questionnaires should be the same both technically and administerially in order to streamline the process of development release and analysis. This will be further discussed at VTS 47.

5.11.3 IALA VTS Manual

Monica Sundklev updated PAP regarding the work on the IALA VTS Manual. Neil Trainor has been leading on this task and PAP welcomed a new proposed structure that would bring the manual into line with the standards. The secretariat has created a fileshare space where Neil Trainor has shared the work for other participants to review and develop. The work continues and there will be a further coordination group meeting at VTS 47.

5.11.4 IALA NAVGUIDE

Minsu Jeon confirmed to PAP the names of NAVGUIDE designated persons from each committee and that the review of the content could now commence. PAP noted the work and the following timeline for the review and publication of the guide:

		½ 2019	2/2 2019	½ 2020	2/2 2020	½ 2021	2/2 2021	½ 2022
Assigning coordinator and authors	Committees							
Contents writing	Committees							

Finalize and review the draft	Committees							
Council approval	Secretariat							
Compilation and design	Secretariat							
Publishing and printing	Secretariat							

6. STRATEGY AND POLICY

6.1 Strategic Goals and Policies

6.1.1 PAP Cross-Committee Coordination

An open discussion was facilitated regarding cross committee coordination. Members asked who else in the maritime domain produces product specifications and it was clarified that they go to a developer. There is an importance of understanding of the whole concept of product specification development and it was recognised that the ARM committee has a management role. The committee should progress the establishment of an inter-committee task force for writing product specifications and the process for how committees can provide the necessary information to this task force.

Minsu Jeon then provided an infographic that illustrates cross committee work as the secretariat views the matter that had been developed and asked members to note the diagram.

PAP also commented that there should continually be a focus on the needs of the members and that Chairs should produce an input paper to the other committees that summarise the activity of their own in order to inform participants of each committees role.

Action items;

*The **Committee Chairs** to produce an input paper to the other committees that summarise the activity of their own in order to inform participants of each committees role.*

*The **ARM Committee** to progress the establishment of an inter-committee task force for writing product specifications and the process for how Committees can provide the necessary information to this task force.*

6.1.2 IALA Position on the Development of AtoN Services

Input papers PAP38-6.1.2.1, PAP38-6.1.2.1.1 and PAP38-6.1.2.1.2 refers.

The Deputy Secretary-General reported that the Committees had returned numerous comments on various parts of the document. These changes were now consolidated into an intermediate clean version of the document.

Recognising that in conjunction with C69, the Council conducted a strategy workshop which identified a number of megatrends affecting the organization and its members. The output of the workshop is similar in nature to the first part of the IALA Position Paper on the Development of Marine Aids to Navigation which describes drivers and trends.

After discussion within the Secretariat, it was therefore decided to pull out the first part of the original Position Paper into a separate document titled Current Drivers and Trends 2018. This leaves two documents:

- PAP38-6.1.2.1.1 Current Drivers and Trends 2018; and
- PAP38-6.1.2.1.2 IALA Position Paper on the Development of Marine Aids to Navigation

The first document can then be static and supplementary thoughts on drivers and trends can be developed periodically, while the second paper continues to be a living document expressing the technical policy of the organization.

After providing minor editorial comments on the papers they were noted and the documents approved to be forwarded to Council 70 in December.

The secretariat presented a document (White Paper) with the result of the Council 69 Strategy Workshop and asked for comments. As the document had been distributed at the meeting there were few comments from PAP members.

Action item;

*The **IALA Secretariat** is requested to forward the draft Current Drivers and Trends 2018 as well as IALA Position Paper on the Development of Marine Aids to Navigation (PAP38-6.1.2.2 and PAP38-6.1.2.3) to Council for approval.*

6.1.3 Revision of IALA Standards

Minsu Jeon explained that the Secretariat was keen to enhance the standards further for a more comprehensive coverage of topic areas, to include for instance, heritage and legacy and model courses. It was agreed to make a proposal to amend the Standards over the next three years and to circulate this through the Committees prior to the next General Assembly in 2022.

6.1.4 IMO Member State Audit Scheme (IMSAS)

Auditors that work for IMO have guidance which contains topics that they should cover whilst carrying out their work. ARM is planning to update the Guideline on 'voluntary' audits and will progress this work to develop an annex for AtoN for IMSAS auditors. It was noted that the VTS committee has produced a Guideline 1115 on Preparing for an IMO Member State Audit Scheme (IMSAS) on VTS.

6.1.5 MASS Involvement

With the increasing relevance of MASS it was agreed that IALA must engage in matters relating to this development in order to meet the needs of future navigation methods. Discussion highlighted that IALA could lead in areas such as PNT for MASS generation shipping and engage with current trials that are underway. Interaction between MASS and VTS will be another key piece of future work that still needs to be developed. It was agreed that there should be an agenda item and rapporteur for each committee and PAP to deal with MASS.

PAP was informed about a request from the councillor of NL, who wanted IALA to develop a document on how MASS could affect VTS. This was to be discussed initially at the strategic working group of IALA Council.

Action items;

*The **IALA Secretariat** to consider adding MASS as a standing agenda item and rapporteur for each committee in order for IALA to receive information and ideas for any future work relating to this topic.*

*The **IALA Secretariat** to add MASS as a standing item to the agenda for future PAP meetings.*

6.2 Challenges and Opportunities

6.2.1 IALA Value Proposition to Industrial Members

Francis Zachariae reported to PAP that a successful IMC meeting had been held in Rio De Janeiro earlier this year and had produced a value proposition statement that members of PAP noted, which included:

- IALA is the only global technical association for the Marine Aids to Navigation industry.
- Industrial Membership of IALA lets commercial organizations succeed by building long standing relationships with key decision makers from domestic and international marine authorities.
- Working alongside industry experts, Industrial members have unique access to technical committees, workshops and conferences to help create the standards that govern the environment in which they operate.
- In a rapidly changing world, IALA also provides the forum to monitor technology trends and innovations that will help your business stay ahead.

He added that IALA will continue to work with the IMC to ensure value to its industrial members.

6.3 The IGO Project

6.3.1 The IGO Project

Secretary-General Francis Zachariae updated PAP on the progress of the IGO project. He reported that the 3rd Preparatory Conference held in Istanbul, Turkey in March was a success and the draft Convention was almost agreed. There will now follow a Diplomatic Conference to be held in Kuala Lumpur, Malaysia from 25 to 28 February 2020.

It is hoped that by October 2020 the signing of the convention can commence and the ratification process can begin. The Secretary-General then guided members through a timeline of the process to IGO status.

7. ANY OTHER BUSINESS

No matters under AOB arose.

8. REPORT OF THE MEETING

The report will be approved by correspondence.

9. DATE AND VENUE OF NEXT MEETING

The next meeting is planned for 19-21 February 2020 for PAP at IALA Headquarters in Saint-Germain-en-Laye. The meeting will be preceded by an IALA VTS-ENAV Steering Committee on the 18 February 2020.

10. CLOSING OF THE MEETING

Omar Frits Eriksson thanked all participants for their very valuable contribution to the meeting and wished all well in the Autumnal committee season.

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**

1	**Introduction**			
	1.1	**Administration and Safety Briefing**	**TS**	**Note**
	1.2	**Welcome by Secretary-General and Deputy Secretary-General**		**Note**
	1.3	**Approval of Agenda**	**OFE**	**Note**
	1.4	**Apologies and Introductions**	**OFE**	**Note**
2	**Review of action items from last meeting**			
	2.1	**Review of action items from PAP 37**	**TS**	**Note**
3	**Review of input papers**			
	3.1	**Review of input papers to PAP 38**	**TS**	**Note**
4	**Reports from other bodies**			
	4.1	**IALA**		
	4.1.1	IALA Council	MJ	Note
	4.2	**IMO**		
	4.2.1	IMO Council	MJ	Note
	4.2.2	IMO MSC	MJ	Note
	4.2.3	IMO NCSR	MJ	Note
	4.3	**IHO**		
	4.3.1	Technical coordination meeting	MJ	Note
	4.4	**ITU**		
	4.4.1	Autonomous Maritime Radio Devices / Mobile Aid to Navigation	HN	Discuss
	4.4.2	VDES & VDES R-Mode	OFE	Discuss
	4.5	**Other (PIANC, CIRM, IMPA, & IHMA etc.)**	**MJ**	**Note**
	4.5.1	E-Navigation Underway	MJ	Note
	4.5.2	3GPP	OFE	Note
5	**Coordination**			
	5.1	**Progress reports**	**All**	**Note**
	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	CP	Note
	5.1.6	LAP	CS	Note
	5.1.7	WWA	OFE	Note
	5.2	**S1010 AtoN Planning and Requirements**		
	5.3	**S1020 AtoN Design and Delivery**		
	5.3.1	Tsunami Monitoring System	MJ	Discuss
	5.4	**S1030 Radionavigation Services**		
	5.4.1	Future of DGNSS	OFE	Discuss
	5.4.2	Workshop	OFE	Discuss
	5.5	**S1040 Vessel Traffic Services**		
	5.5.1	Revision of IMO Resolution A.857(20)	MS	Note
	5.6	**S1050 Training and Certification**		

	5.6.1	AtoN and VTS Training Delivery Worldwide	OFE	Note
5.7	**S1060 Digital Communication Technologies**			
	5.7.1	Evolution of Analog To Digital Voice Radio	HN	Note
5.8	**S1070 Information Services**			
	5.8.1	IALA-IHO Technical Coordination (S-200)	MJ	Note
	5.8.2	Cyber security	OFE	Discuss
	5.8.3	Maritime Resource Name (MRN)	MJ	Discuss
5.9	**Committee work programme and structure**			
	5.9.1	Committee Work Programme 2018-22	MJ	Review
	5.9.2	Structure of Committees	MJ	Discuss
	5.9.3	Committee Meeting and Events Dates	MJ	Note
5.10	**Operations/Administration**			
	5.10.1	IALA Index (Dictionary)	MJ	Discuss
	5.10.2	File Sharing (Pydio)	TS	Discuss
	5.10.3	SLIDO	TS	Discuss
	5.10.4	Committee Surveys	AG	Note
	5.10.5	Secretariat Services and Resources	OFE	Note
	5.10.6	Communications	AG	Discuss
	5.10.7	IALA Symposium	OFE	Discuss
	5.10.8	Committee Websites	TS	Discuss
	5.10.9	Committee Reports	TS	Discuss
	5.10.10	Chair / Participant Guidance	TS	Discuss
5.11	**Other**			
	5.11.1	IALA AtoN Questionnaire	MJ	Discuss
	5.11.2	IALA VTS Questionnaire	MS	Discuss
	5.11.3	IALA VTS Manual	MS	Note
	5.11.4	Reviewing the IALA NAVGUIDE	MJ	Note
6	**Strategy and Policy**			
6.1	**Strategic Goals and Policies**			
	6.1.1	PAP Cross-Committee Coordination	All	Discuss
	6.1.2	IALA Position on the Development of AtoN Services	OFE	Discuss
	6.1.3	Revision of IALA Standards	MJ	Discuss
	6.1.4	IMO IMSAS – Annex on AtoN and VTS	OFE	Discuss
	6.1.5	IALA's involvement in MASS	TS	Discuss
6.2	**Challenges and opportunities**			
	6.2.1	IALA Value Proposition to Industrial Members	FZ	Discuss
6.3	**The IGO Project**			
	6.3.1	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**

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 minsu.jeon@iala-aism.org
Events & Document Co-ordinator		Marie-Hélène Grillet marie-helene.grillet@iala-aism.org
Committee Secretary		Thomas Southall tom.southall@iala-aism.org
Communication Officer		Audrey Guinault audrey.guinault@iala-aism.org
ARM Committee	**Vice-Chair**	Robert D. Lewald robert.d.lewald@uscg.mil
ENAV Committee	**Chair**	Hideki Noguchi 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
Legal Advisory Panel	**Chair**	Christina Schneider Christina.Schneider@wsv.bund.de
VTS Committee	**Chair**	Monica Sundklev monica.sundklev@transportstyrelsen.se
	Vice-Chair	Dirk Eckhoff dirk.eckhoff@wsv.bund.de
IMC		Malcolm Nicholson m.nicholson@sealite.com

ANNEX C **LIST OF INPUT PAPERS**

Meeting	Paper Number	Input Paper Title
PAP38	1.3.1	Provisional Agenda
PAP38	2.1.1	PAP37 Report Final (PAP37-7.1)
PAP38	3.1.1	Input paper template
PAP38	3.1.2	List of Input Papers
PAP38	4.1.1.1	Report Council 69 Final (C69-19.1)
PAP38	4.2.2.1	IALA Report on MSC101
PAP38	4.5.1.1	ENUW AP Conference Highlights 2019 (Final 3 September 2019)
PAP38	5.1.1.1	A Lay-Persons Description of e-Navigation (ENAV23-12.1.4)
PAP38	5.1.1.2	Liaison Note to PAP - Identification and Assessment of Technologies (ENAV23-12.1.7)
PAP38	5.1.1.2.1	Annex A - Digitial Technologies - Draft Initial Review Process (ENAV23-12.1.7.1)
PAP38	5.1.3.1	Reviewed ENG WG Terms of Reference (ENG9-12.1)
PAP38	5.1.3.2	Draft Recommendation R1004 Ed1 Sustainability Recommendation (ENG9-12.11)
PAP38	5.1.4.1	Guiding Principles for ongoing MAtoN work
PAP38	5.1.4.1.1	Annex A - Guiding Principles for ongoing MAtoN work AUS et al (ARM9-12.2.12)
PAP38	5.5.1.1	Liaison note to PAP on the proposed time line for the revision of Res.A.857(20)
PAP38	5.5.1.1.1	Annex on Proposed Time Line for the revision of Res. A.857(20)
PAP38	5.8.3.1	Discussion Paper on MRN
PAP38	5.9.3.1	Confirmed Meeting Dates Second Half 2020
PAP38	5.10.4.1	VTS46 - Input paper on Survey-Proposal
PAP38	5.10.4.2	ENG9 - Input paper on Survey-Proposal
PAP38	5.10.4.3	ARM9 - Input paper on Survey - Proposal
PAP38	5.10.4.4	ENAV23 - Input paper on Survey-Proposal
PAP38	5.11.1.1	IALA Questionnaire 2019 plenary (ARM9-12.0.1)
PAP38	6.1.2.1	Introductory Note on IALA Position Paper on the Developement of Marine Aids to Navigation
PAP38	6.1.2.1.1	Important Drivers and Trends 2018
PAP38	6.1.2.1.2	IALA Position Document on the Development of Marine AtoN Services Post Spring Committees

ANNEX D **LIST OF OUTPUT PAPERS**

Meeting	Agenda Item	OUTPUT PAPERS	Action
PAP38	5.1.3.3	Draft Recommendation R1004 Ed1 Sustainability Recommendation Post PAP Review	To ENG10
PAP38	6.1.2.2	Important Drivers and Trends 2018	To Council for approval
PAP38	6.1.2.3	IALA Position Document on the Development of Marine AtoN Services 2019	To Council for approval
PAP38	7.1	Report of PAP38	

ANNEX E **ACTION ITEMS**

1. The **ENG Committee** to send a participant to attend IHO Technical Communication Meeting during ARM10. 10
2. The **ENG and ENAV Committees** to coordinate their work on VDES and R-Mode. 10
3. The **LAP Committee** to check the Committee Reports for any possible advice that could be beneficial to the committee work. 13
4. The **ENG Committee** to consider adopting a task focusing on tsunami and oceanographic measuring. The task should be developed in cooperation with the other committees and may include a recommendation/guideline and a workshop / seminar on the subject. 14
5. The **ARM Committee** to continue to coordinate the steering committees regarding the Cyber Security workshop. 16
6. The **Committee Chairs** to produce an input paper to the other committees that summarise the activity of their own in order to inform participants of each committees role. 20
7. The **ARM Committee** to progress the establishment of an inter-committee task force for writing product specifications and the process for how Committees can provide the necessary information to this task force. 20
8. The **IALA Secretariat** to follow the work of the IMO FAL Committee as there is work relating to IALA being discussed. 9
9. The **IALA Secretariat** to forward output document PAP38-5.1.3.3 Draft Recommendation R1004 Ed1 Sustainability Recommendation Post PAP Review (PAP38-5.1.3.2) ENG10 to take into account the panel's comments when finalizing the draft recommendation. 12
10. The **IALA Secretariat** to create a fileshare area for committee members to populate with historic cybercrime related case studies or any other useful information regarding this topic. 16
11. The **IALA Secretariat** to consider adding questions in the post-committee questionnaire relating to the experience of first time attendees. 18
12. The **IALA Secretariat** to amend Chairs and Vice-Chairs name badges to indicate who they were so that newcomers could identify them easily. 18
13. The **IALA Secretariat and Chairs** to update Committee websites including the introductory PowerPoint presentations before spring 2020. 18
14. The **IALA Secretariat** to remove all VTS questions from the IALA AtoN Questionnaire in order to avoid duplication with the VTS Questionnaire. 19
15. The **IALA Secretariat** to finalise the IALA AtoN Questionnaire and relese it to IALA members. 19
16. The **IALA Secretariat** is requested to forward the draft Current Drivers and Trends 2018 as well as IALA Position Paper on the Development of Marine Aids to Navigation (PAP38-6.1.2.2 and PAP38-6.1.2.3) to Council for approval. 21
17. The **IALA Secretariat** to consider adding MASS as a standing agenda item and rapporteur for each committee in order for IALA to receive information and ideas for any future work relating to this topic. 21
18. The **IALA Secretariat** to add MASS as a standing item to the agenda for future PAP meetings. 21

10, rue des Gaudines – 78100 Saint Germain en Laye, France
Tel. +33 (0) 1 34 51 70 01 – Fax +33 (0) 1 34 51 82 05 – contact@iala-aism.org
www.iala-aism.org

International Association of Marine Aids to Navigation and Lighthouse Authorities
Association Internationale de Signalisation Maritime