



## IALA POLICY ADVISORY PANEL

### REPORT OF THE 50<sup>TH</sup> SESSION OF THE IALA POLICY ADVISORY PANEL (PAP)

**6 - 8 September 2023**

# EXECUTIVE SUMMARY

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The 50<sup>th</sup> session of PAP was held in person between 6 – 8 September 2023.

Key outcomes included:

- Agreement on the use of a database to manage tasks.
- Comments on the proposed new ToRs for Committees and Subsidiary Bodies in the new IGO.
- Liaison with ICAO on marking sea plane operational areas.

The PAP was also updated on many items including:

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



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# Report of the 50<sup>th</sup> Session of the IALA Policy Advisory Panel

## GENERAL

The 50<sup>th</sup> session of the Policy Advisory Panel (PAP) was held on 6 – 8 September 2023 in person, with IALA Deputy Secretary-General Omar Frits Eriksson as Chair and Thomas Southall as Secretary.

## 1. INTRODUCTION

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

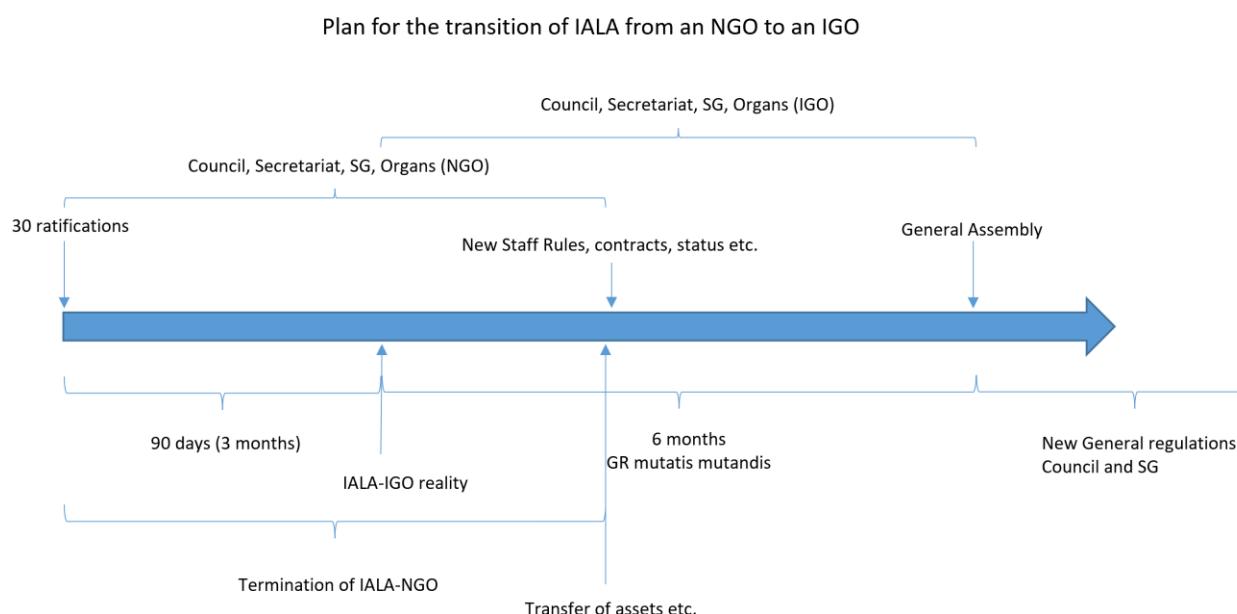
#### 1.1.1. WELCOME BY THE SECRETARY-GENERAL

The Secretary-General, Francis Zachariae, welcomed PAP members to the meeting. He thanked the Panel for the dedication and the amount of time and effort that is given to their IALA duties. The new work period now begins following a very successful Conference in Brazil and gave a special thanks to Alberto Piovesana and the Brazilian team for organizing the event.

At the General Assembly for IALA, IMG and the Council meetings there were very important decisions made and highlighted the work programme. He noted that the IGO process was going extremely well and that the 30 ratifications and accessions may be reached very soon.

Once the ratification and accession process has completed then the transition period will begin. The Secretary-General then explained the transition process (see diagram below). The PAP noted that Singapore had volunteered to host the first General Assembly of the new IGO.

Regarding the IGO project, Hideki Noguchi, Chair DTEC requested that since the draft General Regulations for new IGO that are being considered at the Tokyo Conference in November 2023 contained some provisions related to the Committee work, PAP member should review such provisions and if there would be any comment, contact their national delegations to submit the comment.



#### 1.1.2. WELCOME FROM THE DEPUTY SECRETARY-GENERAL

The Deputy Secretary-General welcomed all members to the 50<sup>th</sup> session of the PAP, especially the newly appointed chairs and Vice-chairs.

## 1.2. APPROVAL OF AGENDA

The agenda (input paper PAP50-1.2.1) was approved. The approved agenda is provided in ANNEX A.

## 1.3. APOLOGIES AND INTRODUCTIONS

No apologies were received. The Panel members then introduced themselves.

## 2. REVIEW OF ACTION ITEMS

### 2.1. REVIEW OF ACTION ITEMS

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

#### From PAP46

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

#### From PAP49

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

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

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

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

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

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

All other actions were reported as completed or superseded.

## 3. REVIEW OF INPUT PAPERS

### 3.1. REVIEW OF INPUT PAPERS

Members noted the input paper list (PAP50-3.1.1).

## 4. REPORTS FROM OTHER BODIES

### 4.1. IALA

#### 4.1.1. IALA COUNCIL

Minsu Jeon, IALA Technical Operations Manager, reported the results of the council meetings that had taken place since PAP49.

The 77th council session took place on 28 May this year in Rio de Janeiro.

Given that this was the final session of IALA's 2018-2023 work period and only the ENAV committee met, there were few items available for discussion and approval.

At the recent meeting, councillors from Spain and Chile presented a paper which is PAP50-4.1.1.1 addressing the frequency with which publications are revised. This topic was debated and has been forwarded to the PAP meeting for further consideration.

For context on this issue, within the committees, numerous new documents are developed, and many existing ones are revised or modified. There are currently 146 guidelines, 75 recommendations, 6 standards, and 4 manuals.

Some, especially those guidelines related to digital communications, undergo frequent updates, sometimes every 6 months or annually. In contrast, some of the documents haven't been updated for nearly 20 years.

The proposal suggests establishing a standard revision period, perhaps every 3 or 5 years, to ensure uniformity in updates and give more time for translation.

After consideration of the input paper from Chile and Council 77, discussion highlighted that:

- Other IGO's have different ways of ensuring that their documents are reviewed and maintained including periods of stability and review dates.
- IALA also wishes to keep their documents dynamic.
- The PAP noted that committees have a standing task in the Work Programme to review any documents that they feel is needed at a time scale of their choosing.

It was therefore concluded that consideration could be given to give a cycle for review for documents such as standards and recommendations, leaving guideline reviews much more flexible. There was also seen to be merit in adding an 'enforcement date' as well as the date of publication on some documents. Another suggestion to facilitate the translation was to mark the changes of a revised document more clearly e.g. by marking the amended paragraph with a line on the side. The Secretariat was tasked to draft a proposal on the subject for PAP to review.

#### Council 78

The 78th session of the Council was held on 3 June 2023 in Brazil, with the newly elected councillors, and they approved the following:

- Committee structure for the period 2023-2027 which includes the name change of the committee ENAV to DTEC;
- Committee work programme for the period 2023-2027; and
- Appointment of the committee chairs and vice-chairs.

#### **Action items**

*That the Secretariat considers adding an 'enforcement date' to the document templates, in addition to the publication date.*

*That the Secretariat make a proposal to the next PAP on suggestions for IALA document review.*

#### **4.1.2. IALA CONFERENCE**

Minsu Jeon, IALA Technical Operations Manager reported that the conference serves as an excellent opportunity to explore a numerous of presentations covering the extent of IALA's technical areas. During this event many presentations were made during both the plenary sessions and the speakers' corner.

It provided an opportunity to stay updated with ongoing technical advancements and to gain insights into future developments. He noted that the conference's conclusions allow us to observe the prevailing trends and the key issues being discussed within our committees.

Topics included sustainability in line with the UN's SDGs and the synergy between IHO and IALA was underscored to aid digital transformation in the maritime sector.

Furthermore, many presentations delved into autonomy and human aspects amplified by the rise in digitalization.

The PAP noted Minsu's report and agreed that the speaker's corner and the event were huge success that added to the value of the conference. It was also noted that the proceedings and presentations from the Conference are now all available on the next cloud.

#### **4.1.3. IALA GENERAL ASSEMBLY**

Minsu Jeon, IALA Technical Operations Manager reported on the General Assembly that took place on the final day of the conference.

During the General Assembly, the following items were approved:

- Approval of amendments to the constitution
- Approval of the Standards Ed 2.0
- Approval of the MBS Ed2.0
- Approval of the Strategic vision
- Consideration of proposals received from members
- Election of the council
- New publications - standards, the MBS and NAVGUIDE

The PAP noted the information.

#### **4.2. IMO**

Minsu Jeon reported relevant results from IMO meetings since the last PAP (NCSR10 and MSC107) meeting starting with NCSR10.

At NCSR10 IALA presented five papers, and delivered a presentation on MRN which was well received by many of the member States. The PAP thanked Dave Lewald, ARM Chair, Dennis Yankowski from Germany and Minsu for this presentation.

IALA had submitted document NCSR 10/7/1, proposing updated and new descriptions on Maritime Services for VTS and Aids to Navigation. This submission was approved without any changes. As an outcome, VTS 1, 2, and 3 have been consolidated into a singular description on VTS under MS1. The updated AtoN description is now the second point on the list of the descriptions (MS2).

IALA had also submitted a proposal to amend on the aids to navigation and VTS part of the IMSAS manual, and it was well received and has been forwarded to the IMO III sub-committee. The proposal is intended to be incorporated into the development of a new III Code Implementation Guide. This guidance will provide essential advice for countries undergoing audits, ensuring a more efficient and comprehensive evaluation process.

NCSR also approved a revision of resolution MSC.530(106) on Performance standards for ECDIS that introduces new ECDIS functionalities for a standardized digital exchange of ships' route plans between ships and shore. This approval may signify an opening step, potentially paving the way for broader data exchanges between ECDIS systems and coastal States.

NCSR10 agreed that amendments to SOLAS chapter V should be prioritized for finalization at NCSR 11 while undertaking in parallel a technical, regulatory and operational analysis of VDES and its communication component.

A correspondence group, under the coordination of Japan has been established to undertake the analysis of VDES and its communication component. The Correspondence Group Chair is NOGUCHI Hideki, PAP member and Chair of DTEC.

NCSR10 had a general consideration of the NAVDAT system, mainly on its anticipated impact over the existing shore-based infrastructure. The existing systems, NAVTEX and NAVDAT were expected to co-exist for a long time.



The provision of the NAVDAT service by coastal stations would be optional. The inclusion of the frequencies for NAVDAT in Radio Regulation is on the agenda for WRC-23.

NCSR10 updated the draft IMO position on WRC-23 agenda item 10 to suggest the inclusion of "digital voice in VHF radiotelephony" and "VDES R-mode" in the preliminary agenda for WRC-31. The PAP were asked to consider if IALA had to take any additional steps for WRC-31.

NCSR invited Member States and international organizations to submit relevant proposals for a new output to MSC 108 for "digital voice in VHF radiotelephony" and "VDES R-mode", in order to ensure timely commencement of the necessary work.

NOGUCHI, Hideki attended MSC107 and provided a brief report that the Committee considered the issue of unlawful practices associated with the fraudulent registration and registries of ships, including manipulation of AIS data transmissions and tampering of AIS transponders. A work programme item on SBAS was agreed and the guidelines on Maritime Cyber Risk Management (MSC + FAL) are due for revision. He also stated that the MASS code continues to be revised.

Regarding future collaboration with the IMO, Minsu Jeon highlighted the review of the STCW Code, the former Chair of ARM, Phil Day, had suggested that the STCW Convention directly reference both the MBS and specific IALA documents on aids to navigation. Guidance such as the MBS and pertinent IALA documents could be included into the IMO model courses, such as 7.01 (Master and Chief Mate) and 7.03 (Officer in Charge of a Navigational Watch). The Secretariat will provide an input to the ARM Committee regarding this.

In regard to IMO FAL, IALA has observed developments regarding the IMO compendium and data elements for some time. During this period, numerous organizations have progressed in data element depository.

Presently, the International Taskforce Port Call Optimization (ITPCO) leads the development of a guide for nautical data. This endeavour is a collaborative effort, with the participation of IHMA, IHO, BIMCO, IAPH, and several others. The PAP concluded that IALA should attend FAL and contribute to this work.

#### **Action item:**

*That the Secretariat arrange for representation at IMO FAL meetings in order to contribute to developments regarding the IMO compendium and data elements and other relevant tasks and subsequently report back to the PAP.*

### **4.3. IHO**

Minsu Jeon, reported that the collaboration with IHO continues. IALA has actively participated in IHO HSSC meetings and some of their working groups. The WWA has joined some of the regional hydrographic commission meetings.

A second joint workshop with IHO is scheduled, which will be elaborated upon later in the agenda and IALA is set to continue its regular technical cooperation meetings with IHO later this year.

Continued areas of cooperation:

- Portrayal and harmonizing terms and definitions related to AtoN; and
- The development of S-125.

### **4.4. ITU**

The PAP noted Minsu Jeon's report that ITU-R Working Party 5B (WP 5B) was held from 10th to 21st July 2023 in Geneva. This was the last meeting in the study cycle 2019 to 2023 and Stefan Bober represented IALA.

The main focus of the WP5B meeting was on the revision of several ITU Recommendations and the introduction of two ITU study questions, namely study questions on "VHF digital voice" and on "VDES R-Mode".

The preparation of documents for WRC-23 was completed at the previous meetings. WRC-23 will be held in Dubai, United Arab Emirates, from 20th November to 15th December 2023.

IALA has a specific interest in the maritime mobile service including the GMDSS and the radiodetermination service, with particular emphasis on the development of VDES, AIS, AMRD, VHF digital voice, VDES R-Mode and e-Navigation.

A detailed report has been submitted to DTEC committee for their information.

#### **4.5. DIGITAL@SEA**

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

- Digital@Sea Asia Pacific and Capacity Building workshop on 12 - 15 September 2023 in Korea
- Digital@Sea International in 2024 in Copenhagen, Denmark
- Digital@Sea North-America on 8-9 May 2024 in Atlantic Beach, FL, US

#### **4.6. 3GPP**

Minsu Jeon reported that at the last PAP it was concluded to have a new task item on “Contribute to the development of IMT-2030 by formulating user requirements for Marine AtoN” included in the work programme 2023-2027. DTEC will be commencing this task this year.

And as I briefed, the vision and requirements for 6G had been announced including ubiquitous connectivity, integrated AI and communication, and integrated sensing and communication. The new capabilities of 6G will be coverage, sensing related capabilities, AI related capabilities, sustainability, interoperability, and position of 1-10cm.

The 6G development is ongoing, and it is anticipated that the detailed technical performance requirements will be released in the near future.

#### **4.7. ISO**

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

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

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

##### ICAO

The PAP noted that ICAO had contacted the Secretariat with a request for assistance in marking sea plane areas of operation. It is clearly desirable to harmonize any marks with the maritime world. Whilst the Secretariat are able to provide input to ICAO from an editorial point of view, whilst the technical input to ICAO will be led by the ARM Committee. ICAO will send an input paper to the ARM Committee setting out their requirements.



##### European Union Space Programme Agency

Concerning the EUPSA matters (European Union Space Programme Agency), it was noted the following information about the programs and services developed by the EU Agency and tailored for the maritime user that could be of interest of Competent Authorities. The debriefing was focused on two services:

- High Accuracy Services (HAS)
- EGNOS Maritime Service

The Galileo High Accuracy Service (HAS) provides free of charge high accuracy Precise Point Positioning (PPP) corrections through the Galileo signal (E6-B) and by terrestrial means (Internet) since 24/01/2023. With a global coverage, it allows to reach horizontal and vertical accuracy of centimetres in the Galileo and GPS frequencies. A number of uses cases for such service and other relevant information are available in the IALA Guideline G1127 Systems and Services for High-Accuracy Positioning and Ranging and EU documentation library website: <https://www.gsc-europa.eu/electronic-library/programme-reference-documents>.

The EGNOS Maritime Service based on the service provision defined in the IALA Guideline G1152 SBAS Maritime Service is currently finalizing the last milestones before declaring the service. That is, the publication of the IEC 61108-7 standard for SBAS L1 receiver equipment for maritime navigation. The new standard will:

- ensure a safe and harmonized use of SBAS by all shipborne receivers worldwide, under IEC Technical Committee 80.
- use of SBAS L1 to provide augmentation to the GPS shipborne receiver for harbour entrances/approaches and coastal/ocean waters according to IMO Res A.1046 (27).
- as the other IEC 61108 series standards, is composed by a set of minimum performance requirements, method of testing and the required test results.
- it also includes (among other rules and procedures) a high-level procedure for SBAS L1 navigation computation to ensure that receivers correctly process and uses:
  - the SBAS data,

- the receiver output sentences to support SBAS L1 operation and bridge alert management compliant with IEC 62923-1 and IEC 62923-2

The publication of the standard in IEC is expected end of 2023 and starting 2024. After this, the EGNOS Maritime service will be ready to be declared.

IALA is continuously monitoring the information provided by EUSPA and the services developed by such Agency for the interest of the maritime community. IALA also welcome all the information coming from other Agencies or organization in terms of satellite services.

## 5. PROGRESS REPORTS

### Technical committees and LAP

No new matters arising to report however the Chair noted the intersessional work that was ongoing and urged chairs to ensure that the work was being published on the dashboard. The PAP also thanked Natsha McMahon, ARM Vice-chair, for leading the work on the review of the IALA MBS.

### 5.1. IMG

Malcolm Nicholson, IMG representative, reported that the IMG General Assembly had taken place in Brazil in June 2023. The General Assembly examined the achievements of the IMG since the last Assembly in 2018 which included the Value Proposition document, ToRs for the Group and Code of Conduct. The General Assembly then elected its new members, where the Chair Marcel Tetu was re-elected.

Communication officer, Audrey Guinault, also introduced the results of the survey that was sent to Industrial members after the 20<sup>th</sup> IALA Conference. There were 33 replies received. Members' feedback was positive, but some comments were made about the organization such as the delay in opening the bookings and some difficulties identified in logistics. Suggestions were made for future conferences, for instance, there could be more time allocated for lunch or breaks every day to allow people to visit the exhibition more easily or a dedicated session could be planned specifically for the exhibition. The new app was well appreciated. The results of the survey will be forwarded to the Industrial members group for consideration.

### 5.2. WWA

The Dean of the Academy, Omar Frits-Eriksson, gave an update on the WWA's activities. He reported that the Academies work was now in full progress following the arrival of Latifa Oumouzoune. He then detailed the training activities that were planned for the near future, which can be found [here](#). Members then highlighted the importance of capacity building work and Dean explained the process that is currently applied when undertaking missions.

## 6. STRATEGY AND POLICY

### 6.1. IALA'S INVOLVEMENT IN MASS

Minsu Jeon recalled that the IALA Council, at its 72nd session, discussed the development of MASS and reaffirmed its position that there is a need to increase focus on developing MASS related IALA guidance, and the Council decided to establish a MASS Task Force as an auspicious of PAP meeting.

The terms of reference for the MASS TF were developed by the PAP and the next meeting is scheduled for next month on 4 October in IALA HQ. This follows the MASS workshop held 2 – 3 October on establishing scenarios for the development of MASS.

The purpose of the workshop will be to collaboratively develop scenarios for the employment of MASS over the next 5, 10, 15, or 20 years. For instance, to determine how many, what type of ships, where and with what challenges.

This workshop will bring together representatives from shipowners, ports and infrastructure, manufacturers, VTS Competent authorities and service providers, pilots, IMO, IHO and other relevant stakeholders.

The results of the workshop will be discussed by the MASS Task Force and then PAP. The PAP then discussed the attendees, aims of the workshop and its possible outcomes and looked forward to its findings.

Minsu Jeon then asked the chairs to reaffirm the different committee representatives to the MASS Task Force.

It was agreed that MASS should be added to the PAP51 agenda.

**Action item:**

*That the Secretariat add MASS to the agenda of PAP51 to continue discussions following the MASS workshop.*

## **6.2. AIS DOCUMENTATION REVIEW**

The PAP noted that this work was about to commence led by the ARM Committee in this Work Programme.

## **6.3. DIGITALISATION**

The Chair proposed that the PAP discuss a wholistic approach to digitalization. It was suggested that each committee could think about how digitalization could enhance and assist them with their requirements in the future. Digitalization is taking place on a huge scale in some parts of the world and it was discussed how we can best onboard members and explain the benefits, whilst giving consideration as to how IALA may harness and use the data, in order that it is not seen as a technical process of conversion alone.

## **6.4. CYBER SECURITY**

Technical work on this topic is ongoing within the committees. ARM, who is leading this work, will coordinate with the other committees with areas such as digital communications technology and traditional AtoN.

## **6.5. SUSTAINABILITY**

Alwyn Williams, ENG Chair, asked the PAP to consider what each committee could do to enhance sustainability and support the environment and provide input to ENG. The results from the planned workshop on sustainability will also feed into this work that is led by ENG.

**Action item:**

*That the PAP members consider what sustainability could do to support sustainability and to provide input to the ENG committee.*

## **6.6. POSITION DOCUMENT ON THE DEVELOPMENT OF MARINE ATO N SERVICES**

The PAP Chair gave a brief background to the *Position Document on The Development of Marine AtoN Services*. He explained that the Secretariat had begun the review the document as agreed in PAP, during this process it was realised that the document had many 'obvious' positions contained within it and work began to make the document more focused. It was considered by the PAP whether IALA should have a document with many positions contained within it, or many documents with specific topics dedicated to each one or should keep the 2019 version as a historic document that can be consulted if necessary.

Following discussion, it was agreed that the 2019 version would be kept as an historic document that can be consulted if necessary and that the PAP should develop positions on certain topics as and when it is tasked to do so by the Council.



## **6.7. S1010 ATON PLANNING AND REQUIREMENTS**

### **6.7.1. HARMONIZED VISUAL ATON IoT PROTOCOL**

The PAP noted input documents PAP50-6.7.1.1 submitted by Jonas Lindberg. The paper stated that Marine Aids to Navigation (AtoN) have often been early adopters of new technologies. Since the 1980s, remote monitoring of marine signal lanterns has been available as a tool to track the availability of AtoN and predict maintenance needs. Remote Control has also been implemented in some applications. Today, there are various solutions available on the market based on Satellite Communication, GSM mobile networks, Point-to-Point short-range radio communication, as well as AIS transponders.

However, current communication topologies often have a low reporting frequency due to the limitations of data communication costs or energy constraints. Status reports are typically only transmitted when lights turn on in the evening and turn off in the morning, with additional ad hoc reports transmitted when an issue is detected by the station (e.g., position, energy or light operation related). Additionally, many current conventional communication systems have a limitation in the number of communication sessions they can manage, so reporting frequency is not only limited by outstation constraints.

As a result, the owner of the asset always has outdated information and no real-time situational awareness. They may also not be able to detect a malfunction of an AtoN in a timely manner. Due to the lack of industrial standards, each vendor operates a proprietary protocol and system, making it difficult for the owner of assets to mix devices in the field.

The paper intended to demonstrate how modern and true IoT (Internet of Things) technology can be implemented to overcome all the current limitations and issues.

It demonstrated that we are able to resolve two of the main issues in existing remote monitoring technologies:

1. Implementing a new, open, secure and standardized non-proprietary communication protocol used by a huge number of existing IoT devices; and
2. Utilizing modern IoT platforms like LTE-M and LoRaWAN achieving communication close to real time without driving data costs and energy consumption

This new method enables the Marine Signal lanterns to enter the real IoT era we have seen moving quickly into other industrial fields.

The PAP agreed that ENG would lead on consideration of this document and action as appropriate.

## **6.8. S1020 ATON DESIGN AND DELIVERY**

Nothing to report.

## **6.9. S1030 RADIONAVIGATION SERVICES**

Nothing to report.

## **6.10. S1040 VESSEL TRAFFIC SERVICES**

Nothing to report.

## **6.11. S1050 TRAINING AND CERTIFICATION**

### **6.11.1. MODEL COURSES FOR STCW**

This work was previously led by the previous ARM Chair, Phil Day, and the current Chair will determine what work needs to be carried out to continue the task, noting that the Secretariat will submit an input document on the matter to the next ARM Committee. Minsu Jeon also informed about the similar work done within the VTS Committee earlier when including VTS in the STCW Manila.

### 6.11.2. OCEAN LITERACY TRAINING

The Chair introduced an input paper on Ocean Literacy Training. The paper set out that the International Foundation for Aids to Navigation (IFAN) approached the World-Wide Academy (the Academy) with a project proposal which is aimed at improving the Ocean Literacy of Aids to Navigation Managers worldwide. An ocean-literate person understands the essential principles and fundamental concepts about the functioning of the ocean; can communicate about the ocean in a meaningful way; and is able to make informed and responsible decisions regarding the ocean and its resources.

The world leading experts on Ocean Literacy is the Intergovernmental Oceanographic Commission (IOC) of the United Nations Educational, Scientific and Cultural Organization (UNESCO). In August 2023, a meeting took place between IFAN, UNESCO IOC and the Academy, where the proposal was received positively and it was agreed that IFAN will look into how the project can be funded, IOC will look into the content of a possible course or series of lectures on the matter, and the Academy will look into how this topic can be integrated into the IALA suite of model courses.

The paper was well received and the ARM Chair stated that his committee consider how IALA can bring this into its training documents. The WWA will provide an input paper to ARM on Ocean Literacy Training to assist the discussion within the Committee.

#### **Action item:**

*That the WWA will provide an input paper to the ARM Committee on Ocean Literacy Training to assist their discussions on the topic.*

### 6.12. S1060 DIGITAL COMMUNICATION TECHNOLOGIES

Nothing to report.

### 6.13. S1070 INFORMATION SERVICES

#### 6.13.1. IALA S-200 DEVELOPMENT

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

The PAP noted that the process of developing a product specification can be lengthy. Before its real implementation, it must be tested and validated by the users, which can take considerable time and every committee is currently crafting their respective product specifications.

A significant test concerning the real-scale S-124 and 125 PS was conducted in Singapore, involving both Canada and Korea. This test provided valuable insights, and the findings will be presented to the ARM committee.

In the S-100 domain, there has been progress with the blueprint for the S-200 world, and promotion of the S-200 within the industry, a detailed sketch is being developed that outlines the specifications of the S-200 series products with the assistance of KRISO.

The PAP considered the sketch and discussed the need and aim of the draft.

Regarding the S-200 PS testbed, details will be presented to the committees in the coming season and one key point to emphasize this time is that KRISO is offering support to any interested nation. If any members supply KRISO with unencrypted raw chart data, they will process this information and extract only the aids to navigation data for testbed inclusion.

The PAP also noted that the Secretariat has initiated the creation of two training courses centered on S-200.

The training is still in its planning phase, but the first is a general introduction spanning 2 - 3 days, while the latter delves deeper, focusing on the development of an actual product specification model.

### **6.13.2. MARITIME RESOURCE NAME (MRN)**

Minsu Jeon reported that the ARM and DTEC committees have collaborated to develop a paper for the IMO, which was subsequently submitted to the IMO NCSR 10. During the IMO NCSR10 session, IALA made a presentation on this and showcased the paper (NCSR 10-7 - Harmonization of identifiers using maritime resource names (IALA)). This paper highlighted the imperative need of standardizing identifiers within the maritime sector via the application of Maritime Resource Names (MRNs). The initiative was met with positive reception and endorsement.

NCSR10 invited Member States and International Organizations to provide input for a circular on MRNs and the PAP welcomed this initiative.

### **6.13.3. MARITIME SERVICES IN THE CONTEXT OF E-NAVIGATION**

Minsu Jeon reported that this task had been completed within IMO. The PAP agreed that when work to develop maritime services was undertaken then that would be made clear in the language that IALA uses, for example S-125 is being developed in support of MS2.

## **6.14. IALA STANDARDS ED3.0**

Minsu Jeon recalled that when PAP initiated the update for edition 2.0, the goal wasn't to make drastic changes to the documents. However, PAP recognized the need to refresh the document's structure.

As IALA is becoming an IGO, and there will be an opportunity in the early years of the new Organization and this presents an opportune moment for more significant revisions and potential restructuring of the standards if deemed necessary. PAP members were invited to reflect on any suggestions for this possible revision in the future.

## **7. COMMITTEE WORK PROGRAMME AND STRUCTURE**

### **7.1. COMMITTEE WORK PROGRAMME 2023 - 2027**

The PAP noted some of the significant outcomes from the previous Work Programme 2018-2023. Throughout this period, numerous publications were developed, and many workshops and webinars were held which is testament to the work of committee participants.

The new work programme 2023 – 2027 has now been approved by Council and ready for the work to commence.

The following list represents a selection of topics that IALA will focus on during the upcoming 4 years work period:

- Cybersecurity
- MASS
- AIS
- S-200
- Technical services
- MARCOM manual
- The Maritime Digital Communication Manual

### **7.2. WORK PROGRAMME, TASK PLAN, AND TASK REGISTER**

Minsu Jeon informed the PAP of a project to integrate the Work Programme, committee Task Plans, Task Registers and Traffic Lights. This would ease the administrative burden on the management documents of the committee and ensure consistency between them. The concept has been developed further since the



last PAP and members welcomed the progress made. In the meantime, the committees will continue to utilise the individual management documents that are currently in use.

The PAP also agreed that numbering of tasks should be harmonized, and the Secretariat make proposals on how this may be done. Discussion also highlighted the clear need for version control. Finally the Chair informed members of the development of an app that IALA participants can use at the committees.

### **7.3. UPCOMING EVENTS**

#### **7.3.1. WORKSHOP ON ESTABLISHING SCENARIOS FOR THE DEVELOPMENT OF MASS**

The PAP noted that the workshop on establishing scenarios for the development of MASS to be held in Saint Germain-en-Laye, France, from 2 to 3 October 2023 will deal with possible future scenarios regarding the development and evolution of MASS. This will include a range of topics, such as;

- A 5-20 years timeframe for the discussions of the future development and scenarios of MASS;
- the four degrees of MASS as defined by IMO will be considered the fixed “anchors” of the discussions and group work to describe the scenarios;
- the numerous types of ships which can be categorized by size, by function and by operational environment in the scenarios; and
- the number of themes and trends affecting the development of MASS, including:
  - Digitalization
  - Connectivity
  - Sustainability
  - Cybersecurity
  - Geopolitical.

The workshop will consist of presentations from a range of expert speakers from the industry, international organisations, ship owners and Competent Authorities covering the topics addressed above and working sessions that are expected to describe such scenarios englobing a number of main questions to be discussed.

#### **7.3.2. WORKSHOP ON ATO<sup>N</sup> ENGINEERING**

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

#### **7.3.3. 2<sup>ND</sup> WORKSHOP ON S-100/200**

The 2<sup>nd</sup> IHO IALA workshop on S-100/200 will be held 9 – 13 September 2024 in Annapolis, USA. Preparatory work continues.

#### **7.3.4. WORKSHOP ON SUSTAINABILITY**

The workshop on sustainability is planned to take place in October 2025, discussions continue with potential hosts.

## 8. PUBLICATIONS/OPERATIONS/ADMINISTRATION

### 8.1. IALA DICTIONARY AND QUESTIONNAIRE

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

The VTS Questionnaire was specifically discussed and the VTS Committee were invited to provide input to the Secretariat as to what questions they would like to be asked.

**Action item:**

*That the VTS Committee provides input on questions to be included in the VTS Questionnaire.*

### 8.2. COMMUNICATIONS

Communication officer, Audrey Guinault, gave an update on IALA's communication. She reminded the panel that communication is oriented to be neutral, factual and technical. It is meant to give information about achievements or events and to promote activities in order to help reach the goals stated in the Strategic Vision. She presented the different means of communication that IALA uses and urged the chairs and vice-chairs to remind committee participants to contribute to the IALA e-Bulletin and to share any news or developments that may be interesting to the community. She then introduced future developments planned for IALA's communication, such as the finalization of the *Communication Strategy* document in view of the change of status to IGO or the change of format of the newsletter and the increased presence on social media.

### 8.3. PROPOSED MEETING DATES

The PAP noted the proposed meeting days for the second half of 2024. All dates were agreed, however, VTS56 will be decided once a date for the proposed workshop on VTS Competent Authorities have been identified. PAP51 was agreed to take place on 15 November 2023.

## 9. THE IGO PROJECT

The PAP considered draft Terms of Reference for committees and subsidiary bodies including a draft cover note. It is envisaged that they will go to the General Regulations Conference in Tokyo as information papers and then be submitted to the first General Assembly of the IGO for approval. Following the PAP, the documents will be submitted to the next LAP.

As such, the Secretariat have drafted the attached Terms of Reference, in a consistent manner that would ensure that they would:

- (a) provide a high-level framework that is both clear and concise; and
- (b) provide a link between the subsidiary body, the Convention and the proposed General Regulations including the Rules of Procedure.

The Convention and General Regulations contain comprehensive detail on areas such as the Establishment and Functions of Committees and Other Bodies, Appointment of Chair and Vice Chair and Rules of Procedure. Therefore, in order to avoid confusion, the documents have been drafted to avoid duplication. In order to make a link between the Convention and General Regulations, they are referenced where appropriate and, in some cases such as the section on Participation, they are made specific to the committee or subsidiary body.

The remaining key areas that the drafts address, notwithstanding the references to the Convention and the General Regulation text, are:

- (i) Name of committee or subsidiary body

- (ii) Participation – specific examples given for the subsidiary body complimenting the proposed Article 6.1 of the General Regulations.
- (iii) Aims and objectives – specific to the subsidiary body in order for the Committee to support the aims and objectives of the Organization as stated in Article 9.1 of the Convention.
- (iv) Activities
- (v) Deliverables
- (vi) Relationship with other bodies

The proposed Terms of References have been drafted in a manner that they can be read as stand-alone documents. Therefore they include an element of necessary repetition from other documents, such as the Convention and General Regulations, for readability purposes.

The PAP considered the cover note and the ARM and DTEC ToRs as examples. Comments were received on many sections, notably the participation and aims and objectives. These comments will be considered by the Secretariat as output papers PAP50-13.2 and 13.3.

Also see section 1.1.1 Welcome by the Secretary-General.

**Action item:**

*That the Secretariat consider the comments provided on the Terms of Reference for Committees and Subsidiary Bodies in PAP50-13.2 and 13.3 and take action as appropriate.*

## **10. IALA SYMPOSIUM UPDATE**

There are no new updates for this agenda item, once the timetable for the transition becomes clearer than there will be further information on this event.

## **11. ANY OTHER BUSINESS**

### Proposal For Developing a Guideline on Buoy Tenders and Multi-Purpose Ships

The PAP noted an input paper discussing IALA guidance concerning buoy tenders. The objective of the proposal was to propose a work item on developing a guideline covering elements that members may take into account when proposing the acquisition/development of vessels used for Marine Aids to Navigation operations. This guideline is envisioned to be a key resource for governmental agencies, contractors, maritime authorities, and other stakeholders. Its aim is to ensure consistency in quality, safety, and operational efficiency across projects related to aids to navigation using the buoy tenders.

The ARM Committee will take this input into account when developing guidance on this topic.

## **12. OUTPUT FROM THE MEETING**

See Annex D.

## **13. REPORT OF THE MEETING**

The final report was approved by correspondence.

## **14. DATE AND VENUE OF NEXT MEETING**

PAP51 will be held on the 15 November 2023.

## 15. CLOSING OF MEETING

The Chair thanked all members for their cooperation and friendly discussions. He urged them to continue the dialogue between members as the work period progresses. He once again welcomed the new members to Policy Advisory Panel.

## 16. 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



### 50<sup>th</sup> Meeting of the IALA Policy Advisory Panel (PAP50)

The 50<sup>th</sup> meeting of the Policy Advisory Panel will be held on 06 – 08 September 2023 at IALA HQ. The timings of the meeting are:

Wednesday	06/09/2023	10:00 – 17:00 CEST
Thursday	07/09/2023	09:00 – 17:00 CEST
Friday	08/09/2023	09:00 – 17:00 CEST

The objectives of the panel are to:

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

## Agenda

<b>1</b>	<b>Introduction</b>			
	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
<b>2</b>	<b>Review of action items from last meeting</b>			
	2.1	Review of action items	TS	Note
<b>3</b>	<b>Review of input papers</b>			
	3.1	Review of input papers	TS	Note
<b>4</b>	<b>Reports from other bodies</b>			
	4.1	IALA		
	4.1.1	IALA Council		
	4.1.2	Conference		
	4.1.3	General Assembly	MJ	Note
	4.2	IMO	MJ	Note
	4.3	IHO	MJ	Note
	4.4	ITU	MJ	Note
	4.5	Digital@Sea	MJ	Note
	4.6	3GPP	MJ	Note
	4.7	ISO	MJ	Note
	4.8	Other (PIANC, CIRM, IMPA, & IHMA etc.)	MJ	Note
<b>5</b>	<b>Progress reports</b>			
	5.1	DTec	HN	Note
	5.2	VTs	MS	Note
	5.3	ENG	AW	Note
	5.4	ARM	DL	Note
	5.5	IMC	MN	Note
	5.6	LAP	CS	Note
	5.7	WWA	OFE	Note
<b>6</b>	<b>Strategy and Policy</b>			

<b>6.1</b>	IALA's involvement in MASS	MJ	Discuss
<b>6.2</b>	ALS document review	DL	Discuss
<b>6.3</b>	Digitalization	OFE	Discuss
<b>6.4</b>	Cyber security	DL	Discuss
<b>6.5</b>	Sustainability	AW	Discuss
<b>6.6</b>	Position Document on the Development of Marine AtoN Services	OFE	Discuss
<b>6.7</b>	S1010 AtoN Planning and Requirements		
	6.7.1 Harmonized Visual AtoN IoT protocol	OFE	Discuss
<b>6.8</b>	S1020 AtoN Design and Delivery		
<b>6.9</b>	S1030 Radionavigation Services		
<b>6.10</b>	S1040 Vessel Traffic Services		
<b>6.11</b>	S1050 Training and Certification		
	6.11.1 Model courses for STCW	DL	Discuss
	6.11.2 Ocean Literacy Training	OFE	Discuss
<b>6.12</b>	S1060 Digital Communication Technologies		
<b>6.13</b>	S1070 Information Services		
	6.13.1 IALA S-200 development	MJ	Discuss
	6.13.2 Maritime Resource Name (MRN)	MJ	Discuss
	6.13.3 Maritime Services in the context of e-Navigation	MJ	Discuss
<b>6.14</b>	IALA Standards ed3.0	MJ	Discuss
<b>7</b>	<b>Committee work programme and structure</b>		
	<b>7.1</b> Committee Work Programme 2023 - 2027	MJ	Discuss
	<b>7.2</b> Work Programme, Task Plan, and Task Register	MJ	Discuss
	<b>7.3</b> Upcoming events		
	7.3.1 Workshop on establishing scenarios for the development of MASS	MJ	Discuss
	7.3.2 Workshop on AtoN engineering	AW	Discuss
	7.3.3 2 <sup>nd</sup> Workshop on S-100/200	DL	Discuss
	7.3.4 Workshop on Sustainability	AW	Discuss
<b>8</b>	<b>Publications/Operations/Administration</b>		
	<b>8.1</b> IALA Dictionary and questionnaire	MJ	Discuss
	<b>8.2</b> Communications	AG	Discuss
	<b>8.3</b> Proposed meeting dates	AG	Agree
<b>9</b>	<b>The IGO project</b>	FZ	Note
<b>10</b>	<b>IALA symposium update</b>	AG	Note
<b>11</b>	<b>Any other business</b>		
<b>12</b>	<b>Output from the meeting</b>		
<b>13</b>	<b>Report of the meeting</b>		
<b>14</b>	<b>Date and venue of next meeting</b>		
<b>15</b>	<b>Closing of meeting</b>		



## ANNEX B LIST OF PARTICIPANTS

<b>ARM Committee</b>	Chair	R. David Lewald <a href="mailto:robert.d.lewald@uscg.mil">robert.d.lewald@uscg.mil</a>
	Vice-chair	Natasha McMahon <a href="mailto:natasha.mcmahon@dfo-mpo.gc.ca">natasha.mcmahon@dfo-mpo.gc.ca</a>
<b>DTEC Committee</b>	Chair	NOGUCHI Hideki <a href="mailto:hideki.noguchi@gmail.com">hideki.noguchi@gmail.com</a>
	Vice-chair	Jorge Arroyo <a href="mailto:Jorge.Arroyo@uscg.mil">Jorge.Arroyo@uscg.mil</a>
<b>ENG Committee</b>	Chair	Alwyn Williams <a href="mailto:alwyn.williams@gla-rad.org">alwyn.williams@gla-rad.org</a>
	Vice-chair	Michel Cousquer <a href="mailto:Michel.Cousquer@cerema.fr">Michel.Cousquer@cerema.fr</a>
<b>VTs Committee</b>	Chair	Monica Sundklev <a href="mailto:monica.sundklev@transportstyrelsen.se">monica.sundklev@transportstyrelsen.se</a>
	Vice-chair	Dirk Eckhoff <a href="mailto:dirk.eckhoff@wsv.bund.de">dirk.eckhoff@wsv.bund.de</a>
<b>LAP</b>	Chair	Christina Schneider <a href="mailto:Christina.Schneider@wsv.bund.de">Christina.Schneider@wsv.bund.de</a>
<b>IMG</b>		Malcolm Nicholson <a href="mailto:m.nicholson@sealite.com">m.nicholson@sealite.com</a>
<b>Secretary-General</b>		Francis Zachariae <a href="mailto:francis.zachariae@iala-aism.org">francis.zachariae@iala-aism.org</a>
<b>Deputy Secretary-General</b>		Omar Frits Eriksson <a href="mailto:omar.eriksson@iala-aism.org">omar.eriksson@iala-aism.org</a>
<b>Technical Operations Manager</b>		Minsu Jeon <a href="mailto:minsujeon@iala-aism.org">minsujeon@iala-aism.org</a>
<b>Technical Officer</b>		Thomas Southall <a href="mailto:tom.southall@iala-aism.org">tom.southall@iala-aism.org</a>
<b>Communications Officer</b>		Audrey Guinault <a href="mailto:audrey.guinault@iala-aism.org">audrey.guinault@iala-aism.org</a>

## ANNEX C LIST OF INPUT PAPERS

Meeting	Agenda Item	Input Paper Title	Source
PAP50-	1.2.1	Provisional Agenda	Secretariat
PAP50-	2.1.1	Action items	Secretariat
PAP50-	3.0.0	Input paper template	Secretariat
PAP50-	3.1.1	Input paper list	Secretariat
PAP50-	4.1.1.1	Cover note - Frequency of revision for publications	Secretariat
PAP50-	4.1.1.1.1	Frequency of publication revision (SPAIN and CHILE) (C77-17.1)	Secretariat
PAP50-	6.7.1.1	Harmonized Visual AtoN IoT protocol	Jonas Lindberg
PAP50-	6.7.1.1.1	Harmonized Visual AtoN IoT Protocol_conference paper	Jonas Lindberg
PAP50-	6.7.1.1.2	PPT Harmonized IoT for Marine Lanterns	Jonas Lindberg
PAP50-	6.11.2.1	Ocean Literacy	WWA
PAP50-	7.1.1	Cover note - Committee Work Programme 2023 - 2027	Secretariat
PAP50-	7.1.1.1	IALA Committee Work Programme 2023-2027	Secretariat
PAP50-	8.3.1	Proposed meeting dates 2024	Secretariat
PAP50-	9.1	Draft Cover Paper for the General Assembly on the Terms of Reference for Committees and Subsidiary Bodies	Secretariat
PAP50-	9.1.1	Draft ToR ARM Annex 1	Secretariat
PAP50-	9.1.2	Draft ToR DTec Annex 2	Secretariat
PAP50-	9.1.3	Draft ToR ENG Annex 3	Secretariat
PAP50-	9.1.4	Draft ToR VTS Annex 4	Secretariat
PAP50-	9.1.5	Draft ToR LAP Annex 5	Secretariat
PAP50-	9.1.6	Draft ToR PAP Annex 6	Secretariat
PAP50-	11.1	Input paper on a Buoy Tender Guideline	Secretariat



## ANNEX D LIST OF OUTPUT PAPERS

Meeting	Agenda Item	OUTPUT PAPERS
PAP50-	13.1	Report of PAP50
PAP50-	13.2	Draft ToR ARM Annex 1 post PAP
PAP50-	13.3	Draft ToR DTec Annex 2 post PAP

## ANNEX E ACTION ITEMS

<i>That the PAP members consider what sustainability could do to support sustainability and to provide input to the ENG committee.....</i>	<i>13</i>
<i>That the VTS Committee provides input on questions to be included in the VTS Questionnaire. ....</i>	<i>18</i>
<i>That the Secretariat considers adding an ‘enforcement date’ to the document templates, in addition to the publication date. ....</i>	<i>7</i>
<i>That the Secretariat make a proposal to the next PAP on suggestions for IALA document review. ....</i>	<i>7</i>
<i>That the Secretariat arrange for representation at IMO FAL meetings in order to contribute to developments regarding the IMO compendium and data elements and other relevant tasks and subsequently report back to the PAP. ....</i>	<i>9</i>
<i>That the Secretariat add MASS to the agenda of PAP51 to continue discussions following the MASS workshop. ....</i>	<i>13</i>
<i>That the WWA will provide an input paper to the ARM Committee on Ocean Literacy Training to assist their discussions on the topic. ....</i>	<i>15</i>
<i>That the Secretariat consider the comments provided on the Terms of Reference for Committees and Subsidiary Bodies in PAP50-13.2 and 13.3 and take action as appropriate.....</i>	<i>19</i>

