**Input paper:** PAP47-7.1.2

**Input paper for the following Committee(s):** **Purpose of paper:**

(Select as appropriate)

ARM  ENG  PAP  Input

ENAV VTS  Information

**Agenda item** 7.1

**Technical domain/ Task number** Work programme

**Author(s)/Submitter(s)** Secretariat

committee work programme 2023-2027

# Summary

In accordance with the general regulation, Committees should prepare Work Programme (WP) for the next quadrennial for approval of the Council. The purpose of the WP is to clearly identify any items of work with outcomes and priorities taking account of the strategic vision 2018-2026, the current drivers and trends, and the IALA position document on the development of marine AtoN.

WP could be developed from the work plan which could fulfil the tasks assigned. When developing the work programme and work plan, the number of meetings available to the Committee during the four-year work period should be considered.

This document contains summarized work items proposed by the committees so far, and invite all the members to submit work items to the committees using the template.

# Action requested of the Pap

The PAP is requested to examine the information provided in this document and ask the committee to submit more work items to the committees.

1. work programme 2023-2027

| Reference to Standards | Technical topic | Title | Description | Expected outcome | Committee | Committee work item no. | Related documents |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S1010 | 1.1 AtoN planning | Compile new Guideline on AtoN Tender requirements and specification – Led by ARM with ENG support. | New Guideline on Tender requirements. | Guideline | ENG | Not assigned yet |  |
|  | 1.3 Level of service |  | Compile a Recommendation to incorporate all references relating to the Categorisation, Availability Objectives (G1030), Availability and Reliability for Short Range Aids to Navigation (G1035), Calculation of Availability (G1004) and relevant text appearing in the 2018 & draft 2023 NAVGuides that are not cross-referenced in the aforementioned Guidelines. | Recommendation | ARM | Not assigned yet |  |
|  | 1.4 Risk mangent | DEVELOP Guidance on Risk Assessment and Certification Methods in the context of e-Navigation | Development of guidance documents on Risk Assessment and Certification Methods in the context of e-Navigation. | Recommendation or Guideline | ENAV | ENAV-2.6.1 |  |
| S1020 | 2.1 visual signaling | Review & update guideline 1043 on Light sources and amalgamate with Guideline on modern equipment in traditional lighthouses |  | New amalgamated Guideline | ENG | Not assigned yet |  |
|  |  | Update Guideline 1048 LED Technologies and their use in signal lights |  | Revise Guideline | ENG | Not assigned yet |  |
|  |  | Develop guideline on Port Traffic Signals |  | New Guideline | ENG | Not assigned yet |  |
|  |  | Develop E-112 Leading Lights and 1023 Leading Lines into a guideline |  | New Guideline | ENG | Not assigned yet |  |
|  |  | Complete Guideline 1061 (2008) on Illumination of Structures |  | Revise Guideline | ENG | Not assigned yet |  |
|  | 2.2 Range and performance | Develop E200-3 on Light measurement into a guideline |  | New Guideline | ENG | Not assigned yet |  |
|  |  | Develop Guidance on monitoring of function and degradation of AtoN light sources |  | Add to G1077 | ENG | Not assigned yet |  |
|  |  | Update Guideline 1041 on Sector Lights to define ‘Angle of Uncertainty’ |  | Revise Guideline | ENG | Not assigned yet |  |
|  | 2.3 Design, Implementation & Maintenance | Update G1035 Dec 2004 Availability and reliability of AtoN – theory and examples 2.0 Provides a method of calculating availability and reliability calculation with a view to enabling members to provide a cost-effective AtoN service. |  | Revise Guideline | ENG | Not assigned yet |  |
|  |  | Update G1037 Dec 2009 Data collection for AtoN performance calculation 2.0 Provides details of methods that can be used to collect information on the availability and reliability of AtoN equipment. |  | Revise Guideline | ENG | Not assigned yet |  |
|  |  | Update G1077 Dec 2009 Maintenance of AtoN 1.0 Information to help develop a maintenance strategy. Several annexes are attached to provide detailed information on the activities involved in the [maintenance. |  | Revise Guideline | ENG | Not assigned yet |  |
|  |  | Develop Guideline on complimentary use of AtoN. Eg. Tsunami monitoring, Met Hydro monitoring, Private communications platforms etc. |  | New guideline on Complimentary use of AtoN | ENG | Not assigned yet |  |
|  |  | Develop Guideline on meteorological and oceanographical data disemination |  | New Guideline | ENG | Not assigned yet |  |
|  |  | Navguide review |  | Review of the Navguide for the 2027 publication | ENG | Not assigned yet |  |
|  |  | Update and Amalgamate the Guidelines 1108, 1136 and new guideline “AtoN equipment and structures exposed to extreme environmental conditions into one guideline” |  | New single Guideline on AtoN in extreme environmental conditions | ENG | Not assigned yet |  |
|  |  | Update G1007 ENG Dec 2005 Lighthouse maintenance structural composition, constructions, accommodation facilities and physical and environmental effects. |  | Revise Guideline | ENG | Not assigned yet |  |
|  |  | Update G1064 Dec 2008 Integrated power system lanterns (Solar LED lanterns) |  | Revise Guideline | ENG | Not assigned yet |  |
|  | 2.4 Floating Aids to Navigation | Develop guidance quantifying characteristics to meet nautical and operational requirements and ways to verify them |  | New guideline | ENG | Not assigned yet |  |
|  |  | Develop new guideline on radar reflector (reflection) properties |  | New guideline on radar reflectors. | ENG | Not assigned yet |  |
|  |  | Creating an overview guidance on floating AtoN |  | New Guideline on floating AtoN | ENG | Not assigned yet |  |
|  |  | Update Recommendation E-107 May 2009 Moorings for floating AtoN 2.0 Technical recommendation on moorings. |  | Updated Recommendation on moorings for floating AtoN | ENG | Not assigned yet |  |
|  |  | Update G1066 June 2010 Design of floating AtoN moorings 1.1 General consideration on mooring materials, and comparison of mooring loads and design. |  | Updated Guideline on Design of floating AtoN moorings | ENG | Not assigned yet |  |
|  | 2.5 Environment & Sustainability | Review and update as necessary G1036, the Green Guide |  | Revise guideline on Environmental and Sustainability responsibilities. | ENG | Not assigned yet |  |
|  | 2.6 Heritage and Culture | Maintain the Heritage web page on the IALA website |  | Updated Heritage web page | ENG | Not assigned yet |  |
|  |  | Develop Guidance on modern equipment in traditional lighthouses |  | New Guideline | ENG | Not assigned yet |  |
|  |  | Heritage LH of the Year award |  | Maintain the Award | ENG | Not assigned yet |  |
|  |  | Write the Heritage module for the WWA L1.1 AtoN Manager course |  | New module on Heritage to include in the L1.1 course. | ENG | Not assigned yet |  |
|  |  | Review of documents |  | All documents pertinent to heritage reviewed | ENG | Not assigned yet |  |
|  |  | Update G1063 ENG Dec 2008 Agreement for complementary use of lighthouse property.  What should the agreement contain and safety aspect of the agreement including examples of few countries. |  | Updated Guideline | ENG | Not assigned yet |  |
|  |  | Review Guidelines 1074, 1075 & 1076 on Branding, Business plans and Building Conditioning for content and relevance. |  | Reviewed guidelines | ENG | Not assigned yet |  |
| S1030 | 3.1 Satellite positioning and timing | Guidance on timing and synchronisation |  | New Guideline on the need and potential solutions | ENG | Not assigned yet |  |
|  | 3.2 Terrestrial positioning and timing (including eLoran, eChayka, R-mode) | R-Mode development |  | Development of R-Mode Guideline  Coordination of R-Mode test beds | ENG | Not assigned yet |  |
|  | 3.3 Racon & radar positioning | Radar & Ehanced Racon positioning |  | Development of eRacon/eRadar technology  Review related IALA documents | ENG | Not assigned yet |  |
|  | 3.4 Augmentation services (SBAS & DGNSS) | Augmentation systems |  | Watching brief on DGNSS developments, both SBAS and marine Radiobeacon and update IALA documents as necessary | ENG | Not assigned yet |  |
|  |  | High accuracy systems |  | Guidance on new systems and how they can be used | ENG | Not assigned yet |  |
|  | 3.5 Document updates | Review and update the WWRNP |  | Reissued WWRNP | ENG | Not assigned yet |  |
|  |  | Review and updates of documents related to the WG topics. |  | Revised Recommendations and standards | ENG | Not assigned yet |  |
|  | 3.6 Liaison with related bodies | MASS overview and support |  | Watching brief on MASS developments and support for the PAP MASS task Group | ENG | Not assigned yet |  |
|  |  | S100 – S200 support |  | Watching brief on S-200 developments and response to any developments | ENG | Not assigned yet |  |
|  |  | Liaison with related bodies |  | Provide updates as needed, e.g. to ITU-R M.823 and others as required. | ENG | Not assigned yet |  |
|  | 3.7 PNT technology review | Monitor developments in radionavigation topics for information exchange and development of appropriate guidance (inc. resilient PNT, cyber security, timing aspects etc). |  | Rapporteur reports and new documents as required. | ENG | Not assigned yet |  |
| S1040 |  |  |  |  |  |  |  |
| S1050 | 5.1 Training and assessment |  | Develop a training course and make relevant training material available to enhance mariners’ understanding of Marine Aids to Navigation (AtoN) and to facilitate the effective use thereof. | Model course | ARM | Not assigned yet |  |
|  |  | WWA lesson plans to review |  | Review and updating of the WWA Lesson plans as requested by the Academy | ENG | Not assigned yet |  |
| S1060 | 6.3 Harmonised maritime connectivity | Update G1008 May 2009 Remote control and monitoring of AtoN 2.0 Objectives of remote control and monitoring, and technical aspects such as communication links, display, maintenance and integration with other systems. |  | Revised Guideline | ENG | Not assigned yet |  |
| S1070 | 7.1 Data modes and data encoding | Develop a Marine AtoN Technical Service specification | Development of a Technical Service Specification for the exchange of marine AtoN information. This includes the distribution from shore-to-ship (S-125) and shore-to-shore (S-201). | Guideline | ENAV | ENAV-2.2.1 | G1128 |
|  |  | Develop a Position Paper on the concept of Maritime Services as basic concept of eNAV (Quality of Services, Service Level Agreements) | Development of a position paper of the concept of Maritime Services as a basic concept of e-Navigation. | Position paper | ENAV | ENAV-2.2.4 |  |
|  |  | Revise Guidance Documents on Maritime Services (MS) in the Context of e-Navigation | Revision of existing IALA Guidance documents in the area of MARITIME SERVICES IN THE CONTEXT OF E-NAVIGATION, if required. | Guideline | ENAV | ENAV-2.2.11 | G1128, G1157, G1155 |
|  |  | Extend S-100 Data Exchange Formats to support Low-Bandwidth Communication | Develop an extension of S-100 that allows transmission of S-100 data to be transmitted over communication channels with a low bandwidth. This is especially relevant for the usage of VDES for Maritime Services. It is proposed to perform this task in cooperation with ENAV WG3. |  | ENAV | ENAV-2.2.12 |  |
|  |  | Develop Guidance on Future Concepts of GMDSS | Development of a recommendation or guideline on future concepts of GMDSS, including the integration of safety-relevant e-Navigation Services and the inclusion of new technologies in GMDSS. | Recommendation or Guideline | ENAV | ENAV-2.3.3 |  |
|  |  | Develop Guidance On the Integration of Maritime Services And Platforms | Development of a recommendation or guideline that discusses the integration of Maritime services to e-Navigation Platforms. | Guideline | ENAV | ENAV-2.3.4 |  |
|  |  | Develop Guidance on Traffic Management in the Context of e-Navigation | Development of a recommendation or guideline on the integration of e-Navigation concepts and architectures into existing Vessel Traffic Services regarding traffic management focusing on harmonization, interoperability, security and effiency. This task has to be coordinated with VTS Committee | Recommendation or Guideline | ENAV | ENAV-2.5.1 |  |
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1. Template of the task item

# TASK n.n.n title

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| --- | --- | --- | --- |
| **Standard** |  | | |
| **Topic Area** |  | | |
| **Task** |  | | |
| **Objectives of the task** |  | | |
| **Expected outcome** |  | | |
| **Compelling need** |  | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  **Strategy** | | |
| **Scope** |  | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). |  | | |
| **Expected numbers of sessions for completion** | Session number:  nn nn nn nn nn nn nn | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** |  | |
|  | **Revision Notes:** |  | |