| **ARM Committee – Task Plan 2018-2022** | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Strategy Technical Domain** | **Task** | **Expected Output**  **(Key: + planned work, x planned but no work carried out, > task extended, \* task completed)** | **WG** | **Session** | | | | | | | **Status** |
| **8** | **9** | **10** | **11** | **12** | **13** | **14** |
| 1. **Standard 1010 – AtoN planning and service requirements** | | | | | | | | | | | |
| * 1. Obligations and regulatory compliance (RXXX) | * + 1. Develop guidance on regulatory/legal framework for Aton Authorities | New Recommendation and new Guideline  New Guideline(s) describing purpose, management, legislation needs, regulation needs, perhaps with examples of legislation and regulation clauses to assist understanding. | 1 | + | + | + | + |  |  |  |  |
| * + 1. Revise G1054 Preparing for a Voluntary IMO Audit on Aids to Navigation Service Delivery (Nov 2006) | Revised Guideline to reflect change of IMO audit status | 1 |  |  | + | + | + | + |  |  |
| * 1. Risk management (R1002) | * + 1. Review G1018 Risk Management to ensure compatability with risk toolbox. Includes full review of underlying Risk Toolbox documentation G1123, G1124, G1138 | Revised Guideline | 3 | + | + | + | + | + | + |  |  |
| * + 1. Review R0142 Maritime Data Sharing IALA Net to reflect new title “Maritime data sharing” and the storage and use of historical [AIS and other] data for risk analysis   Consider need and drivers for data sharing, capture and analysis.  Identify possible tools for data capture and analysis.  Monitor development of framework and identified tools for data capture and analysis with IALA Secretariat. | Revised Recommendation  New Guideline incorporating a Conceptual framework for data sharing, capture and analysis  Tools for data sharing, capture and analysis | 3 |  | + | + | + | + | + | + | ENG and ARM in cooperation Relies on Competent Membership |
| * + 1. Review G1086 Global Sharing of Maritime Data (June 2012) in collaboration with task 1.2.2 (R0142 review) | Revised Guideline | 3 |  | + | + | + | + | + | + | Relies on Competent Membership |
| * + 1. In cooperation with ENG (task 1.2.1) revise R0138 and G1058 and G1097 on simulation use by AtoN authorities | Revised Recommendation and Guideline to incorporate Korean input from ENG on AtoN simulator | 3 | + | + | + | + |  |  |  | ENG and ARM in cooperation |
| * + 1. Develop Recommendation for marine data sharing for risk assessment analysis or incorporate with R0142 task 1.2.2 | New Recommendation or extension of R0142 | 3 |  | + | + | + | + | + | + | Relies on Competent Membership |
| * + 1. Develop guidance on cyber security for AtoN authorities in collaboration with all other Committees. Possibly complete at Cyber Security workshop. | New Recommendation and Guideline Develop Basic Requirements in Advance of Workshop | 2 | + | + | + | WS | + | + | + |  |
| * + 1. Develop document to promulgate IALA risk management tool box to IMO (SN circular) | Liaison note to IMO setting out content of proposed/ revised IMO SN circular | 3 |  |  |  |  |  | + |  | Relies on Completion of 1.2. |
| * 1. Levels of service objectives (R0130) | * + 1. Deliberately blank |  |  |  |  |  |  |  |  |  |  |
| * 1. Quality management | * + 1. Revised Guideline G1052 Quality Management in [Marine] Aids to Navigation Service Delivery (Dec 2013), removing ISO copied text. | Revised Guideline | 1 |  |  | + | + | + |  |  |  |
| * 1. AtoN planning | * + 1. Reformat and review the IALA MBS incorporating MAtoN. Needs General Assembly approval. | Revised MBS Recommendation and possible new Guideline including mobile AtoN, bearing in mind R1016 | 1 | + | + | + | + | + |  |  | Relies on MAtoN |
| * + 1. Assist ENAV with development of radio aspects of MAtoN and AMRD with IEC and ITU | Advice to ENAV for liaison notes to ITU and IEC and contribution to ENAV New Guideline on AMRD | 1 | + | + | + | + |  |  |  |  |
| * + 1. Undertake gap analysis of IALA guidance associated with the MBS, including 1078 The Use of AtoN in the Design of Fairways (June 2011), identify further work to add to the task plan at ARM8.Includes SIGNI buoyage and submerged breakwaters. | Revised Guidelines (TBA) | 1 | +++ | + | + | + | + |  |  |  |
| * + 1. Develop guidance for navigators on the use of AtoN | New Guideline | 1 |  |  |  | + | + | + | + |  |
| * + 1. Review G1096 Anticipated User e-Navigation Requirements from Berth to Berth, for AtoN Authorities (May 2013) – may be deleted | Revised or deleted Guideline | 1 |  | + |  |  |  |  |  | May be deleted |
| * + 1. Develop guidance on AtoN provision in polar regions | New Guideline and possible Recommendation | 1 |  |  | + | + | + | + | + | Possible Polar Seminar |
| * + 1. Develop guidance on the provision of AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS) | New Guideline and possible Recommendation | 1 |  |  |  |  |  |  |  | Possibly too soon |
| * + 1. Review and update Recommendation R-0139 on the Marking of Man-Made Offshore Structures to reflect trends in the proliferation of wind farms and other offshore platforms. | Revised Recommendation and possible new Guideline | 1 |  |  | + | + | + |  |  |  |
| * + 1. Identify options for the future use of DGNSS stations in conjunction with ENG review of Recommendation R0150. | Draft update of Recommendation R0150 to ENG Committee | 1 |  |  | + | + | + |  |  |  |
| * + 1. Develop Guideline on the Use of MAtoN | Guideline (New) in Advance of MBAS review | 1 | + | + | + |  |  |  |  |  |
| * 1. Virtual marking | * + 1. Review R0143 Provision of virtual aids to navigation and G1091 Virtual AtoN to reflect developments | Revised Recommendation and Guideline | 1 | + | + | + | + |  |  |  |  |
| 1. **Standard 1020 – AtoN design and delivery** | | | | | | | | | | | |
| * 1. Visual signalling | * + 1. In association with ENG review G1116 Selection of Rhythmic Characters and Synchronisation of Lights for [Marine] Aids to Navigation (Dec 2015) | Revised Guideline | 1 | + |  |  |  |  |  |  | Preliminary Discussion |
| * 1. Design, implementation and maintenance | * + 1. Review G1084 Procedure of the Authorisation of AIS AtoN | Revised Guideline (if required) | 2 |  | + | + |  |  |  |  |  |
| * + 1. Provide guidance on the management of requirements and requirements traceability | New Guideline | 2 |  | + | + |  |  |  |  |  |
| 1. **Standard 1050 – Training and Certification** | | | | | | | | | | | |
| * 1. Training and certification | * + 1. Review G1020 Training Related to [Marine] Aids to Navigation (Dec 2005) | Revised Guideline in collaboration with WWA | 3 | + | + | + | + | + | + | + |  |
| * 1. Capacity building | * + 1. Review relevant sections of NAVGUIDE as requested by Secretariat | Revised NAVGUIDE section  NAVGUIDE review to be led by IALA Secretariat | All | + | + | + | + | + | + | + |  |
| 1. **Standard 1060 – Digital Communication Technologies** | | | | | | | | | | | |
| * 1. Wide/Medium bandwidth systems (AIS & VDES) | * + 1. Review G1050 Management and Monitoring of AIS Information (Dec 2005) | Revised Guideline  Conduct Periodic Review (coordinate with WG3 (IALANET, etc.)) | 2 |  | + | + | + |  |  |  |  |
| * 1. Harmonised maritime connectivity framework (CMDS) Maritime IoT ( Intelligent sensors, Aton monitoring) | * + 1. Digital Maritime Connectivity | * 1. Define User Requirements for Digital Maritime Connectivity | 2 |  | + | + | + | + | + | + |  |
| * 1. Define User Requirements for the Maritime Internet of Things (Define Requirements for MRN Addressing) | 2 |  | + | + | + | + | + | + |  |
| * 1. Contribute to IALA submission to IMO | 2 | + |  |  |  |  |  |  |  |
| 1. **Standard 1070 – Information services** | | | | | | | | | | | |
| * 1. Data models and data encoding (IVEF, S-100, S-200, ASM) | * + 1. Develop guidance on Digital Maritime Services | New Guideline on implementation of Digital Maritime Services under IALA’s Remit to include development of MS17 & MS19 (provide Clarification of Digital Representations of Physical Service) | 2 |  | + | + | + | + | + | + |  |
| * + 1. New Guideline on Operational considerations for S-200 (S-201 AtoN information and S-230 Application Specific Messages) | Guideline on Operational considerations for S-200 | 2 |  | + | + | + |  |  |  |  |
| * + 1. Continue to Develop Product Specification S-201 in the Task Group already assigned | Product Specification S-201 Ed.1 | 2 |  | + | + | + |  |  |  |  |
| * + 1. Develop Annex C to S-201 | Develop Annex C to S-201 PS to Ed.1  Revise Annex C to S-201 PS to Ed.2 | 2 | + | + | + | + | + | + | + |  |
| * + 1. Develop Requirements for S-125 | Draft Product Specification for S-125 to be delivered to IHO | 2 | + | + | + | + | + | + | + |  |
| * + 1. Coordination with IHO/WMO for S-100, S-200, and MRN management (S-100/S-200 message coordination with other Committees on S-2xx development) | Liaison notes | 2 | + | + | + | + | + | + | + |  |
| * + 1. Develop guidance on MRN for users | Develop MRN User Guideline to Ed.1 | 2 | + | + | + |  |  |  |  |  |
| Review MRN User Guideline to Ed.2 | 2 |  |  |  | + | + | + | + |  |
| * + 1. Develop MRN Registry Submission & Maintenance Guideline for IALA Secretariat | MRN Registry Submission & Maintenance Guideline Ed.1 | 2 | + | + | + |  |  |  |  |  |
| MRN Registry Submission & Maintenance Guideline Ed.2 | 2 |  |  |  | + | + | + | + |  |
| * + 1. Develop Recommendation to cover MRN Guidelines | New Recommendation on MRN | 2 |  | + | + |  |  |  |  |  |
| * + 1. Coordinate Committee support for IALA representation at IHO working groups in cooperation with Secretariat (HSSC, S-100WG, NIPWG) | IHO coordination | 2 | + | + | + | + | + | + | + |  |
| * + 1. Monitor the development of S-201 Testbed | Update reports on S-201 testbed | 2 | + | + | + | + | + | + | + |  |
| * 1. Data exchange systems (Traffic Information) | * + 1. Review G1072 AtoN Information Exchange and Presentation (Dec 2009) and consider if contents of G1105 can be incorporated | Revise associated Guidelines or amalgamated with G1105 | 2 |  | + | + | + | + | + | + |  |
| * + 1. Develop Guideline on ship reporting from the shore‐side perspective | a. Ship Report Template Registry specifications and governance;  b. Guideline on ship reporting tools;  c. Minimum cyber security requirements for sharing ship report information;  d. Guidance on migration from current ship reporting system to a harmonised and secure electronic system;  Consider IEC (63173) route exchange work (S-421). | 2 |  | + | + | + |  |  |  |  |
| * 1. Terminology, symbology, and portrayal | * + 1. Develop guidance on the symbology and portrayal of AtoN for charting | New Guideline and possibly recommendation | 2/1 |  | + | + | + | + | + | + |  |
| 1. **Other** | | | | | | | | | | | |
| * 1. Seminar | * + 1. Cooperate with WWA in providing Risk Seminar(s) |  | 3 | + | + | + | + | + | + | + |  |
| * 1. Workshop | * + 1. Lead joint workshop with IHO on S-100/200 and portrayal workshop | New Guideline | 2 |  | + |  |  |  |  |  | W/S Proposal to be Reviewed by PAP37 and Submitted in ARM9 |
| * + 1. Participate in ENG led joint workshop on cyber security | Guidance on cyber security | 2 | + | + | + | + | + | + | + |  |

Provisional Working Group Chair and Vice Chairs

|  |  |
| --- | --- |
| **Working Group (WG)** | **Working Group Chair / Vice Chair** |
| WG1 – Navigational Requirements | Guttorm Tomren / Johan Westerlund |
| WG2 – Information Services and Portrayal | Dave Lewald / Martin Bransby |
| WG3 – Risk Management | Roger Barker / Catherine Steenberg |