This task plan is draft and is subject to review / amendment at ARM8

| **ARM Committee – Task Plan 2018-2022** | | | | | | | | | | | |
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| **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. Ensure compatibility with risk toolbox | 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 |
| * + 1. Review G1086 Global Sharing of Maritime Data (June 2012) in collaboration with task 1.2.2 (R0142 review) | Revised Guideline | 3 |  |  |  |  |  |  |  |  |
| * + 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 |  |  |  |  |  |  |  |  |
| * + 1. Develop guidance on cyber security for AtoN authorities in collaboration with all other Committees | New Recommendation and Guideline | 2 |  |  |  |  |  |  |  |  |
| * + 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 |  |  |  |  |  |  |  |  |
| * 1. Levels of service objectives (R0130) |  |  |  |  |  |  |  |  |  |  |  |
| * 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 | Revised MBS Recommendation and possible new Guideline including mobile AtoN, bearing in mind R1016 | 1 | + | + | + | + | + | + | + |  |
| * + 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 | 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 |  |  |  |  |  |  |  |  |
| * + 1. Develop guidance on AtoN provision in polar regions | New Guideline and possible Recommendation | 1 |  |  |  |  |  |  |  |  |
| * + 1. Develop guidance on the provision of AtoN for autonomous vehicle/vessel operations | New Guideline and possible Recommendation | 1 |  |  |  |  |  |  |  |  |
| * + 1. Review and update Recommendation R-0139 on the Marking of Man-Made Offshore Structures to reflect trends in the proliferation of wind farms | Revised Recommendation and possible new Guideline | 1 |  |  |  |  |  |  |  |  |
| * + 1. Identify options for the future use of DGNSS stations in conjunction with ENG review of Recommendation R-150. | Draft update of Recommendation R-150 to ENG Committee | 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 |  |  |  |  |  |  |  |  |
| * 1. Design, implementation and maintenance | * + 1. Review G1084 Procedure of the Authorisation of AIS AtoN | Revised Guideline (if required) | 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 | 2 |  |  |  |  |  |  |  |  |
| * 1. Harmonised maritime connectivity framework (CMDS) Maritime IoT ( Intelligent sensors, Aton monitoring) | * + 1. Digital Maritime Services | * 1. New Guideline on Digital Maritime Services   2. Structure and content of Maritime Services | 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 Maritime Services | New Guideline(s) – WG to identify full work scope and deliverables at ARM8 to include:  Operational considerations for S-200 (S-201 AtoN information and S-230 Application Specific Messages)  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) | 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 | Revised Guideline 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; | 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. **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 |  |  |  |  |  |  |  |  |
| * + 1. Participate in ENG led joint workshop on cyber security | Guidance on cyber security | 2 |  |  |  |  |  |  |  |  |

Provisional Working Group Chair and Vice Chairs

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