

Work Programme for Committees 2018-2022

For PAP 39

Standards, Recommendations and Guidelines

Work planned in 2018-2022



| Standard | Scope | Recommendation | | | | | Guideline | | | | Remarks |  |
|----------------------------------------------------|---------------------------------|----------------|-------------------------------------------------------------------------|-----|---------|-------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|------------------------------------------------|-------------------------------------------------------------------------------------|
| | | Ref. | Title | TC | Nor/Inf | Work/Status | Ref. | Title | TC | Work/Status | | |
| IALA1010 AtoN Planning and Service Requirements | 1.1 Aids to Navigation planning | R1001 | The IALA Maritime Buoyage System | ARM | Nor | | [G]1078 | The Use of AtoN in the Design of Fairways (June 2011) | ARM | | Revision and gap analysis of related documents | |
| | | | | | | | New | Develop guidance for navigators on the use of AtoN | ARM | | | |
| | | R0111 (E-111) | Port Traffic Signals | ENG | Nor | | New | Guideline on Port Traffic Signals | ENG | | | |
| | | R0113 (O-113) | The Marking of Fixed Bridges and Other Structures over Navigable Waters | ARM | Nor | | | No document | | | | |
| | | R0139 (O-139) | The Marking of Man-Made Offshore Structures | ARM | Nor | | new | o meet the identified need of competent authorities, administrations, licence providing organizations and for general and/or detailed guidance on marking requirements of man-made offshore structures o provide potential solutions for marking, taking into account various local or regional circumstances o lead to a worldwide harmonized marking of these structures benefit the safe and efficient navigation of vessels visiting the mentioned areas and the protection of the marine environment. | ARM | planned | | |
| | | R1010 | The Involvement of Maritime Authorities in Marine Spatial Planning | ARM | Inf. | | [G]1079 | Establishing and Conducting User Consultancy by [Marine] Aids to Navigation Authorities (Dec 2009) | ARM | | | |
| | G1121 | | | | | | Navigational Safety Within Marine Spatial Planning (June 2017) | ARM | | | | |
| | [G]1033 | | | | | | Provision of [Marine] Aids to Navigation for Different Classes of Vessels, Including High-Speed Craft | ARM | | | | |
| | | | No document | | | | [G]1096 | Anticipated User e-Navigation Requirements from Berth to Berth, for AtoN Authorities (May 2013) | ARM | | | |
| | | | No document | | | | new | Develop guidance on the provision of AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS) | ARM | planned | | |
| | | | No document | | | | [G]1107 | Planning and Reporting of e-Navigation Testbeds (June 2016) | ENAV | | | |
| | | | | | | | G1153 | Template for the review of emerging technologies for possible use by IALA members | ENAV | done | C70 approved | |
| | | | No document | | | | [G]1047 | Cost Comparison Methodology of Buoy Technologies | ARM | | | |
| | | | No document | | | | [G1090] | The Use of Audible Signals (Dec 2012) | ARM | | | |

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| | 1.2. Obligations and regulatory compliance | NEW | The need for a Competent Authority for Marine Aids to Navigation (and vessel traffic) services | ARM VTS | Inf. | | New | New Guideline(s) describing purpose, management, legislation needs, regulation needs, perhaps with examples of legislation and regulation clauses to assist understanding. | ARM Possibly-VTS | planned | | Cancelled following LAP advice |
| | | NEW | The international obligations of competent authorities IMO SOLAS, UNCLOS, EU Directives, etc. | ARM | Nor- | | [G]1054 | Preparing for a Voluntary IMO Audit on Aids to Navigation Service Delivery (Nov 2006) | ARM | | | |
| | | | No document | | | | [G]1005 | Contracting Out [Marine] Aids to Navigation Services (Dec 2005) | ARM | | | |
| | 1.3. Levels of service | R0130 (O-130) | Categorisation and Availability Objectives for Short Range Aids to Navigation | ARM | Nor. | | G1004 | Level of Service | ARM | | | |
| | 1.4. Risk Management | R1002 | Risk Management for Marine Aids to Navigation | ARM | Nor. | | [G]1018 | Risk Management (May 2013) | ARM | | | Ensure compatibility with risk toolbox |
| | | | | | | | G1123 | The Use of IALA Waterway Risk Assessment Programme (IWRAP MkII) (June 2017) | ARM | | | |
| | | | | | | | G1124 | The Use of Ports and Waterways Safety Assessment (PAWSA MkII) Tool (June 2017) | ARM | | | |
| | | | | | | | G1138 | The Use of the Simplified IALA Risk Assessment Method (SIRA) (Dec 2017) | ARM | | | |
| | | | | | | | [G]1104 | The Application of Maritime Surface Picture for Analysis in Risk Assessment and the Provision of [Marine] Aids to Navigation Service Delivery (Dec 2013) | ARM | | | |
| | | R0142 (E-142) | Maritime Data Sharing 'IALA-NET' New title "Maritime data sharing for risk assessment and analysis" | ARM | Inf. | | New | Revise this Recommendation to note the storage and use of historical [AIS and other] data for risk analysis. | ARM | planned | | ENG and ARM in cooperation Consider recording and Storage in VTS-Systems |
| | | | | | | | [G]1086 | Global Sharing of Maritime Data (June 2012) | ARM | | | Consider with ref to the above |
| | | New | Recommendation for marine data sharing for risk assessment analysis or incorporate with R0142 task 1.2.2 | ARM | Nor. | planned | | No document | | | | |
| | | R0138 (O-138) | The Use of GIS and Simulation by [Marine] Aids to Navigation Authorities | ARM | Inf. | | [G]1057 | The Use of Geographical Information Systems by [Marine] Aids to Navigation Service Delivery (Dec 2007) | ARM | | | |
| | | | | | | | [G]1058 | The Use of Simulation as a Tool for Waterway Design and [Marine] Aids to Navigation Planning (June 2011) | ARM | | | ARM revise R0138 and G1058 in cooperation with ENG |
| | | | | | | | [G]1097 | Technical Features and Technology Relevant for Simulation of AtoN (May 2013) | ARM | | | Review and revise with ENG-1.1.1 |
| | | R1009 | Disaster recovery | ARM | Inf. | | G1120 | Disaster Recovery (June 2017) | ARM | | | |
| | | R1015 | Marking of Hazardous Wrecks | ARM | Nor. | | [G]1046 | Response Plan for the Marking of New Wrecks (June 2005) | ARM | | | |
| | | R1016 | Mobile AtoN (MAtoN) | ARM | Nor. | | New | Guideline on MAtoN | ARM | | | |

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| | 1.5. Quality management | R0132 (O-132) | Quality Management for Aids to Navigation Authorities | ARM | Nor. | | [G]1052 | Quality Management in [Marine] Aids to Navigation Service Delivery (Dec 2013) | ARM | | | Revise guideline (not copy ISO texts) | | |
| | | R0118 (O-118) | The Recording of Aids to Navigation Positions | ARM | Nor. | | | No document | | | | | | |
| | 1.6. Virtual marking | R0143 (O-143) | Provision of Virtual Aids to Navigation | ARM | Inf. | | [G]1081 | Virtual [Marine] Aids to Navigation (May 2013) | ARM | planned | | Review the documents | | |
| IALA1020 AtoN Design and Delivery | 2.1. Visual AtoN | R0106 E-106 | The Use of Retroreflecting Material on Aids to Navigation Marks within the IALA Maritime Buoyage System (June 2017) | ENG | Nor. | | G1145 | Guideline on Retroreflective materials | ENG | | | | | |
| | | R0108 E-108 | The Surface Colours used as Visual Signal on Aids to Navigation (Dec 2017) | ENG | Nor. | | G1134 | Surface Colours Used as Visual Signals on AtoN (Dec 2017) | ENG | | | | | |
| | | R0110 E-110 | The Rhythmic Characters of Lights on Aids to Navigation (June 2012) | ENG | Nor. | | [G]1116 | Selection of Rhythmic Characters and Synchronisation of Lights for [Marine] Aids to Navigation (Dec 2015) | ENG | | | ARM review G1116 in association with ENG | | |
| | | R0112 E-112 | Leading Lights (Dec 2005) | ENG | Nor. | | [G]1023 | Design of Leading Lines (Dec 2005) | ENG | | | An example is in R0112 | | |
| | | R0104 O-104 | Off Station Signals for Major Floating Aids (June 2012) | ARM | Nor. | | | No document | | | | | | |
| | | | No document | | | | [G]1038 | Methods and Ambient Light Levels for the Activation of AtoN Lights (Dec 2016) | ENG | | | | | |
| | | | No document | | | | [G]1043 | Light Sources Used in Visual [Marine] Aids to Navigation (Dec 2011) | ENG | | | | | |
| | | | No document | | | | [G]1048 | LED Technologies and their Use in Signal Lights (Dec 2005) | ENG | | | | | |
| | | | No document | | | | [G]1061 | Light Applications – Illumination of Structures (Dec 2008) | ENG | | | | | |
| | | | No document | | | | G1094 | Daymarks for [Marine] Aids to Navigation (June 2016) | ENG | | | | | |
| | | | No document | | | | G1122 | The Use of Pictograms on [Marine] Aids to Navigation (June 2017) | ARM | | | | | |
| | | | 2.2. Range and Performance | R0200 E-200-0 | Marine Signal Lights Overview | ENG | Inf. | | New | May be converted into Guideline (There is presently no guidance on how visual range checks of lighted AtoN should be conducted. The WWA has developed a form to do this which could be added as an Annex.) | ENG | | | |
| | | | | R0201 E-200-1 | Marine Signal Lights - Colours | ENG | Nor. | | | No document | | | | |
| | | | | R0202 E-200-2 | Marine Signal Lights - Calculation, Definition and Notation of Luminous Range | ENG | Nor. | | | No document | | | | |
| | | R0203 E-200-3 | Marine Signal Lights – Terms of Measurement | ENG | Nor. | | G1065 | AtoN Signal Light Beam Vertical Divergence (Dec 2017) | ENG | | | | | |
| | New | | | | | | Existing E200-3 will be converted into a new guideline on Measurement | ENG | | | | | | |
| | New G1133 | | | | | | Calculation of Luminous Intensity and Range | ENG | | | | | | |
| | | R0204 E-200-4 | Marine Signal Lights - Determination and Calculation of Effective Intensity | ENG | Nor. | | G1135 | Determination and Calculation of Effective Intensity (Dec 2017) | ENG | | | Guideline to be reviewed in 2018 | | |
| | | E-200-5 | Marine Signal Lights - Estimation of the Performance of Optical Apparatus | ENG | Nor. | | New | New guideline | ENG | | | | | |
| | | | | | | | Re-write Rec into a guideline | | | | | | | |
| | | | No document | | | | [G]1041 | Sector Lights (June 2016) | ENG | | | | | |
| | | | No document | | | | New | Monitoring of the function and degradation of light sources | ENG | | | Write new guideline | | |

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| | | Ref. | Title | TC | Nor/Inf | Work/Status | Ref. | Title | TC | Work/Status | | |
| | | | No document | | | | New | Service factors for AtoN lights | ENG | | | Write new guideline |
| | | | No document | | | | New | Colour fading of plastic AtoN | ENG | | | Write guideline (could be with a guideline on daymarks) |
| | | | No document | | | | G1073 | Conspicuity of AtoN Lights at Night (Dec 2017) | ENG | | | |
| | | R0109 E-109 | The Calculation of the Range of a Sound Signal | ENG | Inf. | | | No document | | | | |
| | | | | | | | G1148 | Guideline on the management of requirements and requirements traceability | ARM | Completed | | approved C69 |
| | | | No document | | | | [G]1035 | Availability and Reliability of [Marine] Aids to Navigation (Dec 2004) | ENG | | | |
| | | | No document | | | | [G]1037 | Data Collection for [Marine] Aids to Navigation Performance Calculation (Dec 2009) | ENG | | | |
| | 2.3 Design, implementation and maintenance | R0126 A-126 | Use of the AIS Aid to Navigation in Marine Aids to Navigation Service | ARM | Inf. | | [G]1082 | An Overview of AIS (June 2016) | ENAV | | | |
| [G]1062 | | | | | | | Establishment of AIS as a [Marine] Aid to Navigation (Dec 2008) | ENAV | | | | |
| [G]1084 | | | | | | | Procedure of the Authorisation of AIS AtoN | ARM | | | | |
| [G]1098 | | | | | | | The Application of AIS AtoN on Buoys (May 2013) | ENG | | | Update from 2022 | |
| | | R1018 | New recommendation on the responsible design and maintenance of AtoN | ENG | Inf. | | [G]1077 | Maintenance of [Marine] Aids to Navigation (Dec 2009) | ENG | | | Develop recommendation |
| | | | No document | | | | G1092 | Safety Management for AtoN Activities (Dec 2017) | ENG | | | |
| | | | No document | | | | [G]1108 | The Challenges of Providing AtoN Services in Polar Regions (Dec 2013) | ENG | | | |
| | | New | Requirements for AtoN provision in Polar regions (Standard 1010) | ARM | Inf. | planned | New | Develop guidance on AtoN provision in polar regions | ARM | planned | | Develop recommendation |
| | | | No document | | | | G1136 | Providing AtoN Services in Extremely Hot and Humid Climates (Dec 2017) | ENG | | | |
| | | | No document | | | | G1140 | Commissioning of AtoN Equipment and Systems (Dec 2017) | ENG | | | |
| | | | No document | | | | [G]1008 | Remote Monitoring and Control of [Marine] Aids to Navigation (May 2009) | ENG | | | review |
| | | | No document | | | | [G]1109 | Theft and Vandalism Deterrents (Dec 2013) | ENG | | | |
| | | | No document | | | | [G]1012 | Protection of Lighthouses and [Marine] Aids to Navigation Against Lightning (May 2013) | ENG | | | |
| | | | No document | | | | [G]1051 | Provision and Identification of [Marine] Aids to Navigation in Built Up Areas (Dec 2005) | ARM | | | |
| | | | No document | | | | G1151 | Maintenance of AtoN structures | ENG | done | | C70 approved |
| | | | No document | | | | New | AtoN Equipment for use in extreme environments | ENG | | | |
| | | | No document | | | | [G]1091 | Bird Deterrents (Dec 2012) | ENG | | | |
| | 2.4 Floating AtoN | R0107 E-107 | Moorings for Floating Aids to Navigation | ENG | Inf. | | [G]1066 | Design of Floating [Marine] Aid to Navigation Moorings (June 2010) | ENG | | | |
| | | | | | | | New | Floating AtoN | ENG | | | |

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| | | | No document | | | | New or update existing Guidelines | guidance quantifying characteristics to meet nautical and operational requirements and ways to verify them | ENG | | | |
| | | | No document | | | | New | guideline on radar reflector (reflection) properties | ENG | | | |
| | | | No document | | | | New | overview guidance on floating AtoN (Rec or Guideline) | ENG | | | |
| | | | No document | | | | [G]1006 | Plastic Buoys (Dec 2013) | ENG | | | |
| | | | No document | | | | [G]1015 | Painting [Marine] Aids to Navigation Buoys (Dec 2013) | ENG | | | |
| | | | No document | | | | [G]1099 | The Hydrostatic Design of Buoys (May 2013) | ENG | | | |
| | 2.5 Environment and sustainability | R1004 | Environmental management in the provision of Marine Aids to Navigation | ENG | Inf. | | G1036 | Environmental Management in [Marine] Aids to Navigation (June 2017) | ENG | | | |
| New | | | | | | | Guidance on modern equipment in traditional lighthouses | ENG | | | | |
| G1137 | | | | | | | AtoN Management in Protected Areas (Dec 2017) | ARM | | | | |
| | 2.6 Heritage and legacy | R1005 | Conserving the built heritage of lighthouses and other aids to navigation | ENG | Inf. | | [G]1007 | Lighthouse Maintenance (Dec 2005) | ENG | | | |
| | | | | | | | [G]1076 | Building Conditioning of Lighthouses (Dec 2009) | ENG | | | |
| | | | | | | | [G]1049 | Use of Modern Light Sources in Traditional Lighthouse Optics (Dec 2007) | ENG | | | |
| | | | | | | | [G]1063 | Agreements for Complementary Use of Lighthouses (Dec 2008) | ENG | | | |
| | | | | | | | [G]1074 | Branding and Marketing Historic Lighthouses (Dec 2009) | ENG | | | |
| | | | | | | | [G]1075 | Business Plan for the Complementary Use of a Historic Lighthouse (Dec 2009) | ENG | | | |
| | | | | | | | [G]1093 | The Management of Surplus Lighthouse Property (Dec 2012) | ENG | | | |
| | 2.7 Power systems | | No document | | | | G1039 | Designing Solar Power Systems for AtoN (Dec 2017) | ENG | | | |
| | | | | | | | G1039-1 | Solar Power System Calculation Tool | ENG | | | |
| | | | | | | | G1039-2 | Handbook for Meteorological Data for IALA Solar Power System Calculation Tool | ENG | | | |
| | | | No document | | | | [G]1064 | Integrated Power Systems Lanterns (Dec 2008) | ENG | | | |
| | | | No document | | | | G1067-0 | Selection of Power Systems for AtoN and Associated Equipment (Dec 2017) | ENG | | | |
| | | | | | | | G1067-1 | Total Electric Loads of AtoN (Dec 2017) | ENG | | | |
| | | | | | | | G1067-2 | Power Sources (Dec 2017) | ENG | | | |
| | | | | | | | G1067-3 | Electric Energy Storage for AtoN (Dec 2017) | ENG | | | |
| | | | No document | | | | New | Buoy stability testing | ENG | | | |
| | | | No document | | | | New | Guidance on what constitutes a good marine AtoN solar panel | ENG | | | |
| IALA1030 Radionavigation Services | 3.1 Satellite positioning and timing | R1017 | Resilient Position, Navigation and Timing (PNT) | ENG | Inf. | | New | Resilient PNT | ENG | | | Input to ITU and RTCM document, if necessary. |

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| | 3.2 Terrestrial positioning and timing | NEW | Terrestrial radionavigation systems Can note the IMO multi-sensor receiver for SOLAS ships (NCSR/MSC) | ENG | Inf. | | G1125 | The Technical Approach to Establishing a Maritime eLoran Service (June 2017) | ENG | | | | |
| | | R1011 | The performance and monitoring of eLoran services in the frequency band 90-110 kHz | ENG | Nor. | | | No document | | | | | Coordinate with RTCM |
| | | | No document | | | | New | Guideline on R-Mode (MF) | ENG | | | | Develop |
| | | | No document | | | | New | Guideline on R-Mode (AIS/VDES) | ENG | | | | |
| | | | No document | | | | New | Guidance on timing and synchronisation | ENG | | | | |
| | | | No document | | | | G1127 | Systems and Services for High Accuracy Positioning and Ranging (Dec 2017) | ENG | | | | |
| | 3.3 RACON & Radar positioning | e-NAV-146 | Maintaining Racon Service Capability | ENG | Nor | | [G]1010 | Racon Range Performance (June 2005) | ENG | | | | Revise |
| | | R1006 R-101 | Marine Radar Beacons (racons) | ENG | Nor. | | | No document | | | | | Review |
| | | | No document | | | | G1147 | New guideline on e-Racons (standard approach) | ENG | | | | |
| | 3.4 Augmentation services | R0115 R-115 | The Provision of Maritime Radionavigation Services in the Frequency Band 283.5-315 kHz in Region 1 and 285-325 kHz in Regions 2 and 3 | ENAV | Nor. | | [G]1016 | Bilateral Agreements and Inter-Agency Memorandums of Understanding on the Provision of DGNSS Services in the Frequency Band 283.5 – 325 kHz (June 2001) | ENG | | | | |
| | | R0121 R-121 | The Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 - 325 kHz | ENAV | Nor. | | [G]1112 | Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 – 325 kHz (May 2015) | ENG | | | | |
| | | | | | | | [G]1119 | Marine Beacon Coverage Prediction (Dec 2016) | ENG | | | | |
| | | | | | | | G1126 | Calculation of DGNSS Antenna Efficiency (June 2017) | ENG | | | | |
| | | R0150 R-150 | DGNSS service provision upgrade and future use | ENAV | Inf. | planned | [G]1053 | Submission of a DGNSS Service for Recognition as a Component of the IMO World-Wide Radionavigation Service (Nov 2006) | ENG | | | | |
| | | R-135 | The Future of DGNSS | ENAV | Inf | | [G]1060 | Recapitalisation of DGNSS (June 2011) | ENG | | | | |
| | | R-129 | GNSS Vulnerability and Mitigation Measures | ENAV | Inf | | New | Becomes a Guideline under IALA1030. Maybe some text from R-129 can inform Recommendation above | ENAV | | | | Review R129 & move to Satellite P&T |
| | | New | SBAS performance for Maritime | ENG | Inf. | | G1129 | The Retransmission of SBAS Corrections Using MF-Radio Beacon and AIS (Dec 2017) Develop guidance on satellite vulnerabilities. | ENG | | | | |
| | | | | | | | G1152 | SBAS Maritime Service | ENG | | done | | |
| | | | No document | | | | New | Provide guidance, strategy and advice on potential new uses of marine beacon DGNSS infrastructure | ENG | | | | |
| | | | No document | | | | New | High accuracy systems | ENG | | | | |
| | | | No document | | | | New | Marine beacon support (maintenance, knowledge, harmonisation) | ENG | | | | |
| IALA1040 | 4.1 VTS implementation | R0102 V-102 | The application of the 'User Pays' principle to Vessel Traffic Services | VTS | Inf. | | | No document | | | | | |
| Vessel Traffic Services | | R0119 V-119 | The Implementation of Vessel Traffic Services (Review and update) | VTS | Nor. | Scheduled | [G]1071 | Establishment of a Vessel Traffic Service Beyond Territorial Seas (Dec 2009) | VTS | | | | |

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| | | | | | | | [G]1083 | Standard Nomenclature to Identify and Refer to VTS Centres (June 2011) | VTS | | | | |
| | | | | | | | G1150 | Establishment of VTS | VTS | Completed | | C70 approved | |
| | | | | | | | New | Human Factors and Ergonomics in VTS | VTS | | | | |
| | | R0120 V-120 | Vessel Traffic Services in Inland Waters | VTS | Inf. | | | No document | | | | | |
| | 4.2 VTS operations | R0127 V-127 | Operational Procedures for Vessel Traffic Services | VTS | Nor. | completed | [G]1089 | Provision of VTS Services (INS, TOS & NAS) (Dec 2012) | VTS | | | | |
| | | | | | | | [G]1110 | Use of Decision Support Tools for VTS Personnel (Dec 2014) | VTS | Scheduled | | Review | |
| | | | | | | | G1131 | Setting and Measuring VTS Objectives (Dec 2017) | VTS | | | | |
| | | | | | | | G1141 | Operational Procedures for VTS | VTS | Completed | | C68 approval | |
| | | | | | | | G1144 | Guidelines for Promulgating the Requirements of a VTS To Mariners – A VTS Users Guide Template | VTS | | | | |
| | | | No document | | | | [G]1045 | Staffing Levels at VTS Centres | VTS | Completed | | C68 approval | |
| | | | No document | | | | [G]1118 | Marine Casualty / Incident Reporting and Recording, Including Near-Miss Situations as it Relates to VTS (Dec 2016) | VTS | | | | |
| | | | No document | | | | New | Maritime Service Portfolios for VTS | VTS | | | Cooperation with ENAV and IMO | |
| | | | No document | | | | New | Implications of Maritime Autonomous Surface Ships (MASS) from a VTS Perspective | VTS | Scheduled | | | |
| | | | No document | | | | New | How to develop a Safety Culture in VTS | VTS | Scheduled | | | |
| | | | No document | | | | New | Development and Implementation of VTS-related MSP's other than MSP 1, 2 and 3. | VTS | Scheduled | | merge with VTS Task 1.2.4 | |
| | | | No document | | | | New | Management of a VTS | VTS | | | | |
| | 4.3 VTS data and information management | R0125 V-125 | The use and presentation of symbology at a VTS centre | VTS | Nor | | | No document | | | | | |
| | | R1014 | Portrayal of VTS information and data | VTS | Nor | | New | Guideline on the portrayal of VTS information and data | VTS | | | | |
| | 4.4 VTS communications | R1012 | VTS Communications | VTS | Nor | | G1132 | VTS VHF Voice Communication (Dec 2017) | VTS | | | | |
| | | | | | | | New | VTS Voice Communication, Phrases/Phraseology | VTS | | | | |
| | | NEW | Digital information transfer between ship and shore in VTS operations (Operational aspects) | VTS | Nor | Scheduled | New | Develop a data model for digital information services for VTS (e.g. route exchange) | VTS | | | | |
| | 4.5 VTS technologies | R0128 V-128 | Operational and Technical Performance of VTS Systems | VTS | Nor | Scheduled | [G]1111 | Preparation of Operational and Technical Performance Requirements for VTS Systems | VTS | | | Review | |
| | | | | | | | New | Technical Acceptance of a VTS System | VTS | | | Review | |
| | 4.6 VTS Auditing and assessing | R1013 | Auditing and Assessing Vessel Traffic Services | VTS | Nor | | [G]1101 | Auditing and Assessing VTS | VTS | | | | |
| | | | | | | | [G]1115 | Preparing for an IMO Member State Audit Scheme (IMSAS) on Vessel Traffic Services (Dec 2015) | VTS | | | | |
| | 4.7 VTS additional services | | No document | | | | [G]1070 | VTS Role in Managing Restricted or Limited Access Areas (Dec 2009) | VTS | | | | |

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| | | Ref. | Title | TC | Nor/Inf | Work/Status | Ref. | Title | TC | Work/Status | | |
| | | | No document | | | | [G1102] | VTS Interaction with Allied or Other Services (Dec 2013) | VTS | | | |
| | | | No document | | | | G1149 | Develop guidance on VTS awareness for navigating officers | VTS | | | |
| | | | No document | | | | G1142 | The provision of Local Port Services other than VTS | VTS | Completed | | Guidance for Non-VTS Ports (previously described as Local Port Services - LPS) |
| | | | No document | | | | G1130 | Technical Aspects of Information Exchange Between VTS and Allied or Other Services (Dec 2017) | VTS | | | |
| IALA1050 Training and Certification | 5.1 Training and assessment | R0141 (E-141) | Training and Certification of AtoN Personnel | ENG | Nor | | [G]1020 | Training Related to [Marine] Aids to Navigation (Dec 2005) | ARM | | | Update (ongoing) via WWA Make one for both AtoN and VTS |
| | | R0103 (V-103) | Training and Certification of VTS Personnel | VTS | Nor | | [G]1017 | Assessment of Training Requirements for Existing VTS Personnel, Candidate VTS Operators, Revalidation of VTS Operator Certificates | VTS | Scheduled | | Review 5 MC associated with V-103 |
| | | | | | | | New | VTS training manual | VTS | Scheduled | delete | |
| | | | | | | | [G]1027 | Simulation in VTS Training | VTS | | | |
| | | | | | | | [G]1103 | Train the Trainer | VTS | | | |
| | 5.2 Human factors and ergonomics | | No document | | | | | No document | | | | |
| | 5.3 Simulation in training | | No document | | | | | No document | | | | |
| | 5.4 Capacity Building | | No document | | | | | No document | | | | |
| | 5.5 Competency, certification and revalidation | R0149 (O-149) | Accreditation of Training Organisations | ARM | Nor | | G1100 | The Accreditation and Approval Process for AtoN Personnel Training | ENG | | | |
| | | | | | | | [G]1014 | Accreditation and Approval Process for VTS Training Courses | VTS | Scheduled | | |
| IALA1060 Digital Communication Technologies | 6.1 Harmonised maritime connectivity framework (CMDS) Maritime Internet of Things (Intelligent sensors, AtoN monitoring) | NEW | Communications channels for [public service] digital information services in coastal areas. · Single new Recommendation on (free-to-air, non-commercial) communications channels to be used by coastal authorities for digital information transfer between ship and shore in coastal areas may absorb A-123 and A-124 | ENAV | | | [G]1105 | Shore-side portrayal ensuring harmonisation with e-Navigation related information | ENAV | | | Develop. Can refer to MRCP as an Appendix |
| | | | No document | | | | New | Tidal flow data capture & display | ENG | | | |
| | | R0140 (e-NAV-140) | e-Navigation architecture | ENAV and ARM | Inf | Scheduled | [G]1113 | Design and Implementation Principles for Harmonised System Architectures of Shore-Based Infrastructure (May 2015) | ENAV and ARM | Scheduled | | Revise |
| | | | | | | | [G]1114 | A Technical Specification for the Common Shore-Based System Architecture (CSSA) (May 2015) | ENAV and ARM | Scheduled | | Revise |
| | | | | | | | New | Guideline on Marine AtoN Technical Service specification | ENAV | | | |
| | | R0148 (e-NAV-148) | The need to implement regional e-Navigation solutions based on international standards | ENAV | Inf | | New | New guideline could be merged with R0140 | ENAV | | | Revise |
| | | NEW | maritime connectivity platform | ENAV | Inf | Scheduled | New | Maritime Connectivity Platform | ENAV | Scheduled | | ARM is working on user requirements |

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| Standard | Scope | Recommendation | | | | | Guideline | | | | Remarks  |
|-------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------|---------|-------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------|------------------|-------------|---------------------------------------------------------------------------------------------|
| | | Ref. | Title | TC | Nor/Inf | Work/Status | Ref. | Title | TC | Work/Status | |
| | | New | Cyber-Security (Recommendation) | ENG/ARM/VTS/ENAV | Inf | Scheduled | New | Cybersecurity in AtoN operations | ENG/ARM/VTS/ENAV | Scheduled | Guideline to write Involve all Committees (organize Workshop) |
| | | New | Cyber security digital information systems with focus on authenticity, confidentiality and integrity | ENAV | Nor | Scheduled | | No document | | | |
| | | New | Maritime Radiocommunication Plan (deprecate the MRCP) | ENAV | Nor | Scheduled | New | Implementation of Maritime Radiocommunication plan | ENAV | planned | |
| | 6.2 Wide/Medium bandwidth systems (AIS & VDES) | R1007 | The VHF Data Exchange System (VDES) for shore infrastructure (June 2017) | ENAV | Nor | Scheduled | G1117 | VHF Data Exchange System (VDES) Overview (Dec 2017) | ENAV | planned | |
| | | | | | | | G1139 | Technical Specification of VDES (Dec 2017) | ENAV | | |
| | | R0123 (A-123) | The Provision of Shore Based Automatic Identification System (AIS) (June 2007) | ENAV | Nor | planned | [G]1050 | Management and Monitoring of AIS Information (Dec 2005) | ARM | | |
| | | A-124 | The AIS Service Planned in draft Standard 1060 (R1008 reserved) | ENAV | Nor | planned | New | Move recommendation A-124 content to Recommendation R1008 remainder to Guideline(s) | ENAV | planned | |
| | | | No document | | | | New | A-124 APPENDIX 0 to APPENDIX 19 become Guidelines for Recommendation R1008 | ENAV | planned | |
| | 6.3 Narrow bandwidth systems (NAVDAT, MF beacons) | NEW | Digital MF information broadcast | ENAV | Nor | planned | New | Supporting Guideline 500KHz Other channels (MF beacons) | ENAV | planned | |
| IALA1070 Information Services | 7.1 Data models and data encoding (IVEF, S-100, S-200, ASM) | | No document | | | | New | Data Model for Digital Information Services for VTS (e.g. route exchange) | VTS | | A data model and a product specification in S-200 Under e-NAV-147 |
| | | R1019 | Provision of Maritime Services in the context of e-Navigation in the domain of IALA | ENAV | Inf | Completed | New | Maritime Service Portfolios | ARM | | draft developed in ENAV to ARM |
| | | | No document | | | | G1128 | The Specification of e-Navigation Technical Services (Dec 2017) | ENAV | | |
| | | NEW | Maritime Resource Names | ARM ENAV | Nor | | G1143 | Unique identifier for Maritime Resources | ARM | | Ed 1 done and working on Ed 2 |
| | | | | | | | New | MRN Registry submission and maintenance guideline | ARM | | |
| | | e-NAV-144 | Harmonized implementation of Application Specific Message (ASM) | ENAV | Nor | Scheduled | [G]1095 | Harmonized Implementation of Application Specific Messages (ASMs) (May 2013) | ENAV | | Develop ASM PS |
| | | R0147 e-NAV-147 | Product Specification Development and Management | ARM | Nor | | [G]1088 | Introduction to Preparing S-100 Product Specifications (Dec 2012) | ARM | | Move from ENAV |
| | | | | | | | G1087 | Procedures for the Management of the IALA Domains under the IHO GI Registry (June 2017) | ARM | | Move from ENAV |
| | | | | | | | [G]1085 | Standard Format for Electronic Exchange of AtoN Product Information | ARM | | |
| | | | | | | | new | New Guideline on Operational considerations for S-200 (S-201 AtoN information and S-230 Application Specific Messages) | ARM | | |
| | G1106 | Producing an IALA S-200 Series Product Specification (June 2017) | | | | | ARM | | | | |
| | | | | | G1106-1 | IALA Product Specification Number Template (Dec 2017) | ARM | | | | |

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|----------|-------------------------------------------------|----------------|----------------------------------------------|-----|---------|-----------------|-----------|------------------------------------------------------------------------------------------------------------|-----|-----------------|---------------------------------------------------------------------------------------------|--|
| | | Ref. | Title | TC | Nor/Inf | Work/ Status | Ref. | Title | TC | Work/ Status | | |
| | | | | | | | G1106-2 | Proposal for Additional S-100 Feature Concept Dictionary (FCD) Item – Name of Proposed FCD Item (Dec 2017) | ARM | | | |
| | | | | | | | G1106-3 | Product Specification under Development – Template (Dec 2017) | ARM | | | |
| | | R0145 V-145 | The Inter-VTS Exchange Format (IVEF) Service | VTS | Nor | Scheduled | New | Split into Recommendation and Guideline | VTS | Scheduled | | |
| | 7.2 Data exchange systems (Traffic Information) | | No document | | | | [G]1072 | AtoN Information Exchange and Presentation (Dec 2009) | ARM | Scheduled | Review to make 1 G with G1105 | |
| | | | No document | | | | new | Develop Guideline on ship reporting from the shore-side perspective | ARM | Scheduled | | |
| | 7.3 Terminology, symbology and portrayal | new | Symbology and portrayal of AtoN | ARM | Nor | Scheduled | New | Symbology and portrayal of AtoN | ARM | Scheduled | New guidance and liaison with IHO | |