

Recommendations Plan – Working paper

2017-01-13, revised 2017-02-08, from PAP33-10.2

Input by the IALA WWA (shgb)

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| Indicates NEW or amended Recommendation is required | Indicates action needed, or a new or amended Guideline, etc. |
| Some items are from earlier PAP work, some are new from DSG. | |

| Standard | Topic area | Reference | | Recommendation | Comment |
|--|---|-----------------------------------|------------------|--|--|
| IALA1010 AtoN Planning and Service Requirements | Maritime Buoyage System | IALA1010-R1001 NEW 2017 | Normative | The Maritime Buoyage System <ul style="list-style-type: none"> This Recommendation will <ul style="list-style-type: none"> note the original but superseded International Agreement note the subsequent amendment of the original scheme to include additional marks and note the universal acceptance of the MBS worldwide refer to a Guideline for details of the MBS | <p>Guideline to consist of the present IALA MBS booklet as an interim measure.</p> <p>Then a new Guideline in the the new corporate style and its distribution in the usual way via the website.</p> <p>Today we have no Recommendation or Guideline for the MBS, only a booklet which has unclear status in our document structure.</p> |
| | Obligations, International & national criteria | IALA1010-R1002 NEW | Normative | The need for a national competent authority for marine aids to navigation and vessel traffic services <ul style="list-style-type: none"> Recommends one or two authorities depending on national preferences or arrangements | <p>New Guideline(s) describing purpose, management, legislation needs, regulation needs, perhaps with examples of legislation and regulation clauses to assist understanding.</p> <p>WWA teaches its students in this area but we have no Recommendation or Guideline</p> <p>Comment: Draft maritime legislation was forwarded to ARM in mid-2017. This could form an Annex to the new Guideline. Other items to be included are National register of AtoN (with subject headings), Terms of Reference for AtoN</p> |



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| | | | | | managers and compliance with SOLAS V.13.4 (MSI) as it relates to reporting changes to AtoN. |
| | | IALA1010-R1003 NEW | Normative | <p>The international obligations of competent authorities</p> <ul style="list-style-type: none"> IMO SOLAS, UNCLOS, EU Directives, etc. | <p>New supporting Guideline detailing references and obligations.</p> <p>WWA teaches in this area but we have no Recommendation or Guideline.</p> <p>Comment: Vice Dean will produce a detailed list of all subjects that a fully compliant CA should cover. This will be discussed at the pre-Conference forum, then the Vice Dean will produce a draft GL for input to ARM.</p> |
| | | IALA1010-R0105 E-105 | | The Need to Follow National and International Standards | Withdrawn by Council 63 |
| | Levels of service objectives, Availability and Categories | IALA1010-R0130 O-130 | Normative | Categorisation and Availability Objectives for Short Range Aids to Navigation | |
| | Risk Management Toolbox | IALA1010-R1004 NEW | Normative | Risk management for aids to navigation and related services | <p>Guidelines on:</p> <ol style="list-style-type: none"> IWRAP PAWSA Simple qualitative tool (RAMS) Prepare for future IALA-approved risk analysis software that directly accesses and uses our stored IALANET AIS data <p>Comment: The integration of outputs from the 3 risk tools will considered by the WG in 2018</p> |
| | | IALA1010-R0142 E-142 | Informative | <p>Maritime Data Sharing 'IALA-NET'</p> <ul style="list-style-type: none"> New title "Maritime data sharing for risk assessment and analysis" | <p>Revise this Recommendation to note the storage and use of historical [AIS and other] data for risk analysis.</p> <p>Guideline(s) on:</p> <ul style="list-style-type: none"> How to connect to IALA net Data format(s) |
| | | O-134 | | The IALA Risk Management Tool for Ports and Restricted Waterways | Withdraw this and create R1004 and its Guidelines |
| | | IALA1010-R0138 O-138 | Informative Normative | The Use of GIS and Simulation by Aids to Navigation Authorities | The informative content should become a <u>normative</u> recommendation |
| | Quality management, Record keeping | IALA1010-R0132 O-132 | Normative | Quality Management for Aids to Navigation Authorities | |
| | | IALA1010-R0118 | Normative | The Recording of Aids to Navigation Positions | |



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| | | O-118 | | | |
| | Offshore signals, Bridge signals, Traffic signals | IALA1010-R0111 E-111 | Normative (?) | Port Traffic Signals | Should this one be normative? Is this type of marking in port areas within the scope of IALA? |
| | | IALA1010-R0113 O-113 | Normative | The Marking of Fixed Bridges and Other Structures over Navigable Waters | |
| | | IALA1010-R0139 O-139 | Normative | The Marking of Man-Made Offshore Structures | |
| | AIS, AIS AtoN, Virtual AtoN | IALA1010-R0143 O-143 | Informative | Provision of Virtual Aids to Navigation | Does this need updating or revision? Comment: Yes, it does, particularly as the current IMO policy is too restrictive. A task to redraft IMO MSC1 Circ1473 for input to MSC needs to be added. |



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| IALA1020 AtoN Design and Delivery | Visual AtoN | IALA1020-R0106 E-106 | Informative | The Use of Retroreflecting Material On Aids To Navigation Marks Within The IALA Maritime Buoyage System | |
| | | IALA1020-R0108 E-108 | Normative | The Surface Colours used as Visual Signal on Aids to Navigation | |
| | | IALA1020-R0110 E-110 | Normative | The Rhythmic Characters of Lights on Aids to Navigation | |
| | | IALA1020-R0112 E-112 | Normative | Leading Lights (*including Leading Line Design Program ver 2.02) | |
| | | E-200-1 | | Marine Signal Lights Part 1 - Colours | Should it be a guideline? |
| | | IALA1020-R0104 O-104 | Normative | Off Station Signals for Major Floating Aids | |
| | Range and Performance | IALA1020-R0200 E-200-0 | Normative | Marine Signal Lights Part 0—Overview | Change to Normative as master for E-200-xx series which become Guidelines Comment: There is presently no guidance on how visual range checks of lit AtoN should be conducted. The WWA has developed a form to do this which could be added as an Annex in the most appropriate section. |
| | | E-200-2 | | Marine Signal Lights Part 2 - Calculation, Definition and Notation of Luminous Range | Becomes a Guideline |
| | | E-200-3 | | Marine Signal Lights Part 3 - Measurement | Becomes a Guideline |
| | | E-200-4 | | Marine Signal Lights Part 4 - Determination and Calculation of Effective Intensity | Becomes a Guideline |
| | | E-200-5 | | Marine Signal Lights Part 5 - Estimation of the Performance of Optical Apparatus | Becomes a Guideline |
| | Design, Implementation & Maintenance | IALA1020-R0126 A-126 | Informative | Use of the AIS Aid to Navigation in Marine Aids to Navigation Service | <ul style="list-style-type: none"> • Change title to make clear that it is AIS AtoN • Consider to split into Recommendation and Guideline • Make sure it is compatible with the new VDES documents below |
| | Power systems | | | | |
| | Floating AtoN | IALA1020-R0107 E-107 | Informative | Moorings for Floating Aids to Navigation | |



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| | Environment, Sustainability & Legacy | IALA1020-R1001 NEW | Informative | New Recommendation to become the parent of environment protection Guidelines on mercury, batteries, paints, etc. | <ul style="list-style-type: none">• Capture existing documents and/or add new Guidelines.• Include safety of personnel too? |
| | | IALA1020-R1002 NEW 2017 | Informative | Protection of the built heritage of lighthouses and other aids to navigation <ul style="list-style-type: none">• An informative Recommendation to recognise the need to preserve AtoN heritage and to assist members having heritage obligations• Important for 2018 Conference | <ul style="list-style-type: none">• Recognises need• Refer to the Manual in the Recommendation, rather than create Guidelines. |
| | Additional AtoN systems, including Sound signal | IALA1020-R0109 E-109 | | The Calculation of the Range of a Sound Signal | This should be a Guideline under Range and Performance. Maybe not under IALA1020-R0200, which is on signal lights. Perhaps an orphan with no parent Recommendation? |



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|--|--|------------------------------|------------------|--|---|
| IALA1030 Radionavigation Services | Satellite positioning and timing | IALA1030-R1001 NEW | Informative | WAS augmentation for maritime use | EGNOS, other national WAS, and existing ENAV work to date may inform a Guideline. |
| | Terrestrial positioning and timing | IALA1030-R1004 NEW | Informative | Terrestrial radionavigation systems Can note the IMO multi-sensor receiver for SOLAS ships (NCSR/MSC) | Supporting Guidelines 1. eLoran. (Refer to an RTCM document?) 2. R-Mode operation of MF broadcasting stations 3. R-Mode use of AIS signals 4. Intelligent radar beacons (racons) 5. Guidelines for the creation or use of other emissions as the need arises, e.g Signals of Opportunity |
| | | R-129 | | GNSS Vulnerability and Mitigation Measures | <ul style="list-style-type: none"> Becomes a Guideline under IALA1030-R1001 above. Maybe some text from R-129 can inform Recommendation IALA1030-R1001 |
| | RACON & Radar positioning | e-NAV-146 | | Strategy for Maintaining Racon Service Capability | <ul style="list-style-type: none"> Change title Revision needed. Becomes Guideline under IALA1030-R0101 below |
| | | IALA1030-R0101 R-101 | Normative | Marine Radar Beacons (racons) | <ul style="list-style-type: none"> Check content E-NAV-146 becomes a Guideline under this Recommendation |
| | Terrestrial augmentation services (DGNSS) | IALA1030-R0115 R-115 | Normative | The Provision Of Maritime Radionavigation Services In The Frequency Band 283.5-315 kHz In Region 1 and 285-325 kHz In Region 2 And 3 | |
| | | IALA1030-R0121 R-121 | Normative | The Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 - 325 kHz | |
| | | IALA1030-R0150 R-150 | Informative | DGNSS service provision upgrade and future use | <ul style="list-style-type: none"> Does this need revision? Merge with R-135? Do we need to mention R-mode here too? |
| | | R-135 | | The Future of DGNSS | <ul style="list-style-type: none"> Should be guideline, do not list in standard Is it still valid? Add R-Mode? Withdraw this document? |
| Standard | Topic area | Reference | | Recommendation | Comment |
| IALA1040 Vessel Traffic Services | VTS implementation | IALA1040-R0102 V-102 | Informative | The application of the 'User Pays' principle to Vessel Traffic Services | |



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| | | IALA1040-R0119 V-119 | Normative | The Implementation of Vessel Traffic Services | |
| | | IALA1040-R0120 V-120 | Informative | Vessel Traffic Services in Inland Waters | <ul style="list-style-type: none"> Is this still needed and used? EU rules, USA practices? |
| | VTS operations | IALA1040-R0127 V-127 | Normative | Operational Procedures for Vessel Traffic Services | |
| | VTS data and information management | IALA1040-R0125 V-125 | Normative | The use and presentation of symbology at a VTS centre | |
| | VTS communications | IALA1040-R1001 NEW | Normative | Standard voice communications phrases for VTS operations <ul style="list-style-type: none"> Recognise the IMO SMCP in the Recommendation | The list of VTS phrases could be an annex to the Recommendation, or a separate Guideline. |
| | | IALA1040-R1002 NEW | Normative | Digital information transfer between ship and shore in VTS operations (Operational aspects) | See IALA1070 for a separate technical Recommendation to cover message format, communications channels, etc. Covers: <ul style="list-style-type: none"> Maritime safety information (MSPs) Route information transfer (route exchange) Other? |
| | VTS technologies | IALA1040-R0128 V-128 | Normative | Operational and Technical Performance of VTS Systems | |
| | Auditing and assessing of VTS | IALA1040-R1003 NEW | Normative | Auditing of Vessel Traffic Services | <ul style="list-style-type: none"> Audit includes, staff, procedures, equipment and sensors, records, and recording |



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| IALA1050 Training and Certification | Training and assessment | IALA1050-R0141 E-141 | Normative | Standards for Training and Certification of AtoN Personnel | Amend title Comment: R0101 and R0141 have been produced as mirror-images of each other, as have G1014 and G1100. It would be straightforward to combine these into a single Recommendation and a single Guideline. |
| | | IALA1050-R0103 V-103 | Normative | Standards for Training and Certification of VTS Personnel | Amend title |
| | Accreditation, Competency certification and revalidation | IALA1050-R0149 O-149 | Normative | Accreditation of Training Organisations | Amend Topic area title |
| | | IALA1050-R1001 NEW | Normative | Certification of VTS personnel | Supporting Guideline |
| | | IALA1050-R1002 NEW | Normative? | Certification of AtoN personnel | Supporting Guideline |
| | Simulation in training | | | | Delete Topic area |
| | Human factors and ergonomics | | | | Delete Topic area |



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| IALA1060 Digital Communication Technologies | | IALA1060-R1001 NEW | Normative | Communications channels for [public service] digital information services in coastal areas. <ul style="list-style-type: none"> 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 Absorb A-123 and A-124? | <p>Explains/recommends our plan/vision in a single document.</p> <p>Supporting Guidelines would cover</p> <ul style="list-style-type: none"> VDES Including AIS NAVDAT on 500KHz Future possibility of [NAVDAT] on 300KHz Other? <p>Alternative following is preferable</p> <p>See IALA1070 below for a separate Recommendation with Guidelines for <u>data models</u> for these channels.</p> |
| | | | ALTERNATIVE: - | | |
| | Wide/Medium bandwidth systems (AIS & VDES) | IALA1060-R1002 NEW 2017 | Normative | VDES for shore infrastructure <ul style="list-style-type: none"> Could this absorb A-123 and A-124 below? | Supporting Guidelines |
| | | IALA1060-R0123 A-123 | Normative | The Provision of Shore Based Automatic Identification System (AIS) | |
| | | IALA1060-R0124 A-124 | | The AIS Service | Supporting Guideline Move recommendation content to Recommendation IALA1060-R1001 or 1002, remainder to Guideline(s) |
| | | A-124 APPENDIX 0 to APPENDIX 19 | | | A-124 APPENDIX 0 to APPENDIX 19 become Guidelines for Recommendation IALA1060-R1001 or 1002 |
| | Narrow bandwidth systems (NAVDAT, MF beacons) | IALA1060-R1003 NEW | Normative | NAVDAT for MSI broadcast | Supporting Guideline <ul style="list-style-type: none"> 500KHz Other channels (MF beacons?) |
| | Maritime Internet of Things (Intelligent sensors, AtoN monitoring) | IALA1060-R1005 NEW | Informative | Maritime Resource Numbering | Will apply to [Maritime Cloud] and elsewhere in the maritime environment |



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|--|--|------------------------------|------------------|--|---|
| IALA1070 Information Services | Harmonised maritime connectivity framework (CMDS) | IALA1070-R0140 e-NAV-140 | Informative? | The Architecture for Shore-based Infrastructure 'fit for e-Navigation' | |
| | | IALA1070-R0148 e-NAV-148 | Informative? | The need to implement regional e-Navigation solutions based on international standards | <ul style="list-style-type: none"> Do we still need this document? Could this be merged with the above? |
| | | IALA1060-R1004 NEW | Informative | Framework for harmonised maritime connectivity | <ul style="list-style-type: none"> Placeholder for the Maritime Cloud. Name, content, need, etc., will become clearer in late 2017 or early 2018 after the E2 workshops. |
| | Data models and data encoding (IVEF, S-100, S-200, ASM) | IALA1070-R1001 NEW | Normative | Data models for digital information services [for VTS and AtoN services] in coastal areas (Technical) | Supporting Guidelines covering data models and their management <ul style="list-style-type: none"> S200 series E-NAV 147 as Guideline Application Specific Messages Route exchange/route transfer Maritime Service Portfolios Time stamps for maritime data |
| | | e-NAV 144 | Normative | Harmonized implementation of Application Specific Message (ASM) | Merge into IALA1070-R1001 and its Guidelines |
| | | e-NAV 147 | Normative | Product Specification Development and Management | Merge into IALA1070-R1001 and its Guidelines |
| | | IALA1070-R0145 V-145 | Normative | The Inter-VTS Exchange Format (IVEF) Service | Split into Recommendation and Guideline |
| | Data exchange systems (Traffic Information) | | | | |
| | User requirements | | | | |
| | Terminology and symbology (IALA Dictionary) | IALA1070-R1002 NEW | Informative | Use of IALA terms and definitions in documents and publications | Dictionary as pseudo-Guideline |