

# 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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		Ref.	Title	TC	Nor/Inf	Work/Status	Ref.	Title	TC	Work/Status		
	1.2. Obligations and regulatory compliance	NEW	<del>The need for a Competent Authority for Marine Aids to Navigation (and vessel traffic) services</del>	ARM VTS	Inf.		New	<del>New Guideline(s) describing purpose, management, legislation needs, regulation needs, perhaps with examples of legislation and regulation clauses to assist understanding.</del>	ARM & Possibly VTS	planned	Cancelled following LAP advice	
		NEW	<del>The international obligations of competent authorities IMO SOLAS, UNCLOS, EU Directives, etc.</del>	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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		Ref.	Title	TC	Nor/Inf	Work/Status	Ref.	Title	TC	Work/Status		
	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	guideline G1133 Marine Signal Lights - 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			
			No document				[G]1041	Re-write Rec into a guideline	ENG			
			No document				New	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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		Ref.	Title	TC	Nor/Inf	Work/Status	Ref.	Title	TC	Work/Status		
			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			
							[G]1080	Selection and Display of Heritage Artefacts (Dec 2011)	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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		Ref.	Title	TC	Nor/Inf	Work/Status	Ref.	Title	TC	Work/Status		
	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
		<del>R1006</del> 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 Vessel Traffic Services	4.1 VTS implementation	R0102 V-102	The application of the 'User Pays' principle to Vessel Traffic Services	VTS	Inf.			No document				
		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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		Ref.	Title	TC	Nor/Inf	Work/Status	Ref.	Title	TC	Work/Status		
							[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	<del>Development and Implementation of VTS-related MSP's other than MSP 1, 2 and 3.</del>	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	<del>VTS training manual</del>	<del>VTS</del>	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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		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			

## Work Programme for Committees 2018-2022

Standard	Scope	Recommendation					Guideline				Remarks	
		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 liaise with IHO	