

Work Programme for Committees 2018-2022


Council 71 June 2020

IALA Standards, Recommendations and Guidelines

Work planned in 2018-2022

Standard	Scope	Recommendation						Guideline					Remarks	
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
IALA1010 AtoN Planning and Service Requirements	1.1 Aids to Navigation planning	R1001	The IALA Maritime Buoyage System	1.0/June 2017	ARM	Nor		[G]1078	The Use of AtoN in the Design of Fairways	1.0/June 2011	ARM		Revision and gap analysis of related documents	
								New	Develop guidance for navigators on the use of AtoN		ARM			
								G1094	Daymarks for Aids to Navigation	2.0/June 2016	ENG			
								[G]1038	Methods and Ambient Light Levels for the Activation of AtoN Lights	3.0/Dec 2016	ENG			
								[G]1041	Sector Lights	3.0/June 2016	ENG			
		R0111 (E-111)	Port Traffic Signals	1.2/Dec 2019	ENG	Nor		New	Guideline on Port Traffic Signals		ENG			
		R0113 (O-113)	The Marking of Fixed Bridges and Other Structures over Navigable Waters	2.0/Dec 2011	ARM	Nor			No document					
		R0139 (O-139)	The Marking of Man-Made Offshore Structures	2.0/Dec 2013	ARM	Nor	is it the latest?	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	1.0/June 2017	ARM	Inf.		[G]1079	Establishing and Conducting User Consultancy by [Marine] Aids to Navigation Authorities	1.0/Dec 2003	ARM			
								G1121	Navigational Safety Within Marine Spatial Planning	1.0/June 2017	ARM			
								[G]1033	Provision of [Marine] Aids to Navigation for Different Classes of Vessels, Including High-Speed Craft	1.0/June 2017	ARM			
			No document					[G]1096	Anticipated User e-Navigation Requirements from Berth to Berth, for AtoN Authorities	1.0/May 2013	ARM			
			No document					new	Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)		ARM	planned		
			No document					[G]1107	Planning and Reporting of e-Navigation Testbeds	2.0/June 2016	ENAV			
								G1153	Template for the review of emerging technologies for possible use by IALA members	1.0/Dec 2019	ENAV	done	C70 approved	
			No document					[G]1047	Cost Comparison Methodology of Buoy Technologies	1.0/Dec 2005	ARM			
			No document					[G1090]	The Use of Audible Signals	1.0/Dec 2012	ARM			

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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
	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	1.0/Nov 2006	ARM			
			No document					[G]1005	Contracting Out [Marine] Aids to Navigation Services	2.0/Dec 2005	ARM			
	1.3. Levels of service	R0130 (O-130)	Categorisation and Availability Objectives for Short Range Aids to Navigation	3.0/ June 2017	ARM	Nor.		G1004	Level of Service	3.0/June 2017	ARM			
								[G]1035	Availability and Reliability of [Marine] Aids to Navigation	2.0/Dec 2004	ENG			
								[G]1037	Data Collection for [Marine] Aids to Navigation Performance Calculation	2.0/Dec 2009	ENG			
	1.4. Risk Management	R1002	Risk Management for Marine Aids to Navigation	1.0/June 2017	ARM	Nor.		[G]1018	Risk Management	3.0/May 2013	ARM		Ensure compatibility with risk toolbox	
								G1123	The Use of IALA Waterway Risk Assessment Programme (IWRAP MkII)	1.0/June 2017	ARM			
								G1124	The Use of Ports and Waterways Safety Assessment (PAWSA MkII) Tool	1.0/June 2017	ARM			
								G1138	The Use of the Simplified IALA Risk Assessment Method (SIRA)	1.0/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)	1.0/Dec 2013	ARM			
		R0142 (E-142)	Maritime Data Sharing 'IALA-NET' New title "Maritime data sharing for risk assessment and analysis"	1.0/Dec 2009	ARM	Inf.		New	Revise this Recommendation to note the storage and use of historical [AIS and other] data for risk analysis.		ARM	planned	ENG, ARM and VTS in cooperation (Consider recording and Storage in VTS-Systems)	
								[G]1086	Global Sharing of Maritime Data	1.0/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	1.0/Dec 2007	ARM	Inf.		[G]1057	The Use of Geographical Information Systems by [Marine] Aids to Navigation Service Delivery	1.0/Dec 2007	ARM			
								[G]1058	The Use of Simulation as a Tool for Waterway Design and [Marine] Aids to Navigation Planning	2.0/June 2011	ARM		ARM revise R0138 and G1058 in cooperation with ENG	
								[G]1097	Technical Features and Technology Relevant for Simulation of AtoN	1.0/May 2013	ARM		Review and revise with ENG-1.1.1	
		R1009	Disaster recovery	1.0/June 2017	ARM	Inf.		G1120	Disaster Recovery	1.0/June 2017	ARM			
		R1015	Marking of Hazardous Wrecks	1.0/Dec 2017	ARM	Nor.		[G]1046	Response Plan for the Marking of New Wrecks	2.0/June 2019	ARM			
		R1016	Mobile AtoN (MAtoN)	1.0/Dec 2017	ARM	Nor.		New	Guideline on MAtoN		ARM			
	1.5. Quality management	R0132 (O-132)	Quality Management for Aids to Navigation Authorities	2.1/Dec 2013	ARM	Nor.		[G]1052	Quality Management in [Marine] Aids to Navigation Service Delivery	3.0/Dec 2013	ARM		Revise guideline (not copy ISO texts)	


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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
			No document					G1133	Requirement Traceability	1.0/June 2019	ARM	done		
		R0118 (O-118)	The Recording of Aids to Navigation Positions	1.1/Dec 2005	ARM	Nor.			No document					
	1.6. Virtual marking	R0143 (O-143)	Provision of Virtual Aids to Navigation	1.1/May 2013	ARM	Inf.		[G]1081	Virtual Aids to Navigation	1.1/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)	3.0/June 2019	ENG	Nor.		G1145	Guideline on Retroreflective materials	1.0/June 2019	ENG			
		R0108 E-108	The Surface Colours used as Visual Signal on Aids to Navigation (Dec 2017)	4.0/Dec 2017	ENG	Nor.		G1134	Surface Colours Used as Visual Signals on AtoN	1.0/Dec 2017	ENG			
		R0110 E-110	The Rhythmic Characters of Lights on Aids to Navigation (June 2012)	4.0/Dec 2016	ENG	Nor.		[G]1116	Selection of Rhythmic Characters and Synchronisation of Lights for Aids to Navigation	1.0/Dec 2016	ENG		ARM review G1116 in association with ENG	
		R0112 E-112	Leading Lights (Dec 2005)	1.1/Dec 2005	ENG	Nor.		[G]1023	Design of Leading Lines	1.1/Dec 2005	ENG		An example is in R0112	
		R0104 O-104	Off Station Signals for Major Floating Aids (June 2012)	2.0/June 2012	ARM	Nor.			No document					
		new	New recommendation on the responsible design and maintenance of AtoN		ENG	TBD		[G]1043	Light Sources Used in Visual Aids to Navigation	1.2/Dec 2011	ENG			
								[G]1048	LED Technologies and their Use in Signal Lights	1.0/Dec 2005	ENG			
								[G]1061	Light Applications – Illumination of Structures	1.0/Dec 2008	ENG			
			No document					G1122	The Use of Pictograms on Aids to Navigation	1.0/June 2017	ARM			
	2.2. Range and Performance	R0200 E-200-0	Marine Signal Lights Overview	1.0/Dec 2008	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	2.0/Dec 2017	ENG	Nor.			No document					
		R0202 E-200-2	Marine Signal Lights - Calculation, Definition and Notation of Luminous Range	2.0/Dec 2017	ENG	Nor.		G1148	Determination of required luminous intensity for marine signal lights	1.0/Dec 2019	ENG	done		


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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
		R0203 E-200-3	Marine Signal Lights – Terms of Measurement	1.0/Dec 2008	ENG	Nor.		G1065	AtoN Signal Light Beam Vertical Divergence	4.0/Dec 2018	ENG			
								New	Existing E200-3 will be converted into a new guideline on Measurement		ENG			
		R0204 E-200-4	Marine Signal Lights - Determination and Calculation of Effective Intensity	2.0/Dec 2017	ENG	Nor.		G1135	Determination and Calculation of Effective Intensity	1.0/Dec 2017	ENG		Guideline to be reviewed in 2018	
		E-200-5	Marine Signal Lights - Estimation of the Performance of Optical Apparatus	1.0/Dec 2008	ENG	Inf.		New	New guideline Re-write Rec into a guideline		ENG			
		new	New recommendation on the responsible design and maintenance of AtoN		ENG	TBD		New	Monitoring of the function and degradation of light sources		ENG		Write new guideline	
								New	Service factors for AtoN lights		ENG		Write new guideline	
								New	Colour fading of plastic AtoN		ENG		Write guideline (could be with a guideline on daymarks)	
								G1073	Conspicuity of AtoN Lights at Night	2.0/Dec 2017	ENG			
		R0109 E-109	The Calculation of the Range of a Sound Signal	1.0/June 1998	ENG	Inf.			No document					
	2.3 Design, implementation and maintenance	R0126 A-126	Use of the AIS Aid to Navigation in Marine Aids to Navigation Service	1.5/June 2011	ARM	Inf.		[G]1082	An Overview of AIS	1.0/June 2016	ENAV			
								[G]1062	Establishment of AIS as a [Marine] Aid to Navigation	1.0/Dec 2008	ENAV			
								[G]1084	Procedure of the Authorisation of AIS AtoN	1.0/June 2011	ARM			
								[G]1098	The Application of AIS AtoN on Buoys	1.0/May 2013	ENG		Update from 2022	
		R1018	New recommendation on the responsible design and maintenance of AtoN	1.0/Dec 2019	ENG	Inf.		[G]1077	Maintenance of Aids to Navigation	1.0/Dec 2009	ENG		Develop recommendation	
		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	
		New	New recommendation on the responsible design and maintenance of AtoN		ENG	TBD		G1092	Safety Management for AtoN Activities	2.0/Dec 2017	ENG			
								[G]1108	The Challenges of Providing AtoN Services in Polar Regions	1.0/Dec 2013	ENG			
								G1136	Providing AtoN Services in Extremely Hot and Humid Climates	1.0/Dec 2017	ENG			
								G1140	Commissioning of AtoN Equipment and Systems	1.0/Dec 2017	ENG			
								[G]1008	Remote Monitoring and Control of [Marine] Aids to Navigation	2.0/May 2009	ENG		review	
								[G]1109	Theft and Vandalism Deterrents	1.0/Dec 2013	ENG			
								[G]1012	Protection of Lighthouses and [Marine] Aids to Navigation Against Lightning	3.0/May 2013	ENG			
								[G]1051	Provision and Identification of Aids to Navigation in Built Up Areas	1.0/Dec 2005	ARM			
								G1151	Maintenance of AtoN structures	1.0/Dec 2019	ENG	done	C70 approved	

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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
								New	AtoN Equipment for use in extreme environments		ENG			
								[G]1091	Bird Deterrents	2.0/June 2019	ENG			
	2.4 Floating AtoN	R0107 E-107	Moorings for Floating Aids to Navigation	2.0/May 2009	ENG	Inf.		[G]1066	Design of Floating Aid to Navigation Moorings	1.1/June 2010	ENG			
								New	Floating AtoN		ENG			
		New	New recommendation on the responsible design and maintenance of AtoN		ENG	TBD		New or update existing Guidelines	guidance quantifying characteristics to meet nautical and operational requirements and ways to verify them		ENG			
								New	guideline on radar reflector (reflection) properties		ENG			
								New	overview guidance on floating AtoN (Rec or Guideline)		ENG			
								[G]1006	Plastic Buoys	4.0/Dec 2013	ENG			
								[G]1015	Painting Aids to Navigation Buoys	2.0/Dec 2013	ENG			
								[G]1099	The Hydrostatic Design of Buoys	1.0/May 2013	ENG			
	2.5 Environment and sustainability	R1004	Environmental management in the provision of Marine Aids to Navigation	2.0/Dec 2019	ENG	Inf.		G1036	Environmental Management in [Marine] Aids to Navigation	3.0/June 2017	ENG			
								New	Guidance on modern equipment in traditional lighthouses		ENG			
								G1137	AtoN Management in Protected Areas	1.0/Dec 2017	ARM			
	2.6 Heritage and legacy	R1005	Conserving the built heritage of lighthouses and other aids to navigation	1.0/June 2017	ENG	Inf.		[G]1007	Lighthouse Maintenance	1.1/Dec 2005	ENG			
								[G]1076	Building Conditioning of Lighthouses	1.0/Dec 2009	ENG			
								[G]1049	Use of Modern Light Sources in Traditional Lighthouse Optics	1.0/Dec 2008	ENG			
								[G]1063	Agreements for Complementary Use of Lighthouses	1.0/Dec 2008	ENG			
								[G]1074	Branding and Marketing Historic Lighthouses	1.0/Dec 2009	ENG			
								[G]1075	Business Plan for the Complementary Use of a Historic Lighthouse	1.0/Dec 2009	ENG			
								[G]1093	The Management of Surplus Lighthouse Property	1.0/Dec 2012	ENG			
								[G]1080	Selection and Display of Heritage Artefacts	1.0/Dec 2011	ENG			
	2.7 Power systems	New	New recommendation on the responsible design and maintenance of AtoN		ENG			G1039	Designing Solar Power Systems for AtoN	2.0/Dec 2017	ENG			
								G1039-1	Solar Power System Calculation Tool	2.0/Dec 2017	ENG			


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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
								G1039-2	Handbook for Meteorological Data for IALA Solar Power System Calculation Tool	2.0/Dec 2017	ENG			
								[G]1064	Integrated Power Systems Lanterns	1.0/Dec 2008	ENG			
								G1067-0	Selection of Power Systems for AtoN and Associated Equipment	3.0/Dec 2017	ENG			
								G1067-1	Total Electric Loads of AtoN	3.0/Dec 2017	ENG			
								G1067-2	Power Sources	3.0/Dec 2017	ENG			
								G1067-3	Electric Energy Storage for AtoN	3.0/Dec 2017	ENG			
								New	Buoy stability testing		ENG			
								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)	1.0/Dec 2018	ENG	Inf.		New	Resilient PNT		ENG		Input to ITU and RTCM document, if necessary.	
								New	Guidance on timing and synchronisation		ENG			
								New	High accuracy systems		ENG			
								G1127	Systems and Services for High Accuracy Positioning and Ranging	1.0/Dec 2017	ENG			
	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	1.0/June 2017	ENG			
								New	Guideline on R-Mode (MF)		ENG		Develop	
								New	Guideline on R-Mode (AIS/VDES)		ENG			
		R1011	The performance and monitoring of eLoran services in the frequency band 90-110 kHz	1.0/June 2017	ENG	Nor.			No document				Coordinate with RTCM	
	3.3 RACON & Radar positioning	e-NAV-146	Maintaining Racon Service Capability	1.0/Dec 2011	ENG	Nor		[G]1010	Racon Range Performance	2.0/June 2005	ENG		Revise	
		R1006 R-101	Marine Radar Beacons (racons)	2.0/Dec 2004	ENG	Nor.		G1147	New guideline on e-Racons (standard approach)	1.0/June 2020	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	1.1/Dec 2005	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	1.1/Dec 2005	ENG			
		R0121 R-121	The Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 - 325 kHz	2.0/May 2015	ENAV	Nor.		[G]1112	Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 – 325 kHz	1.0/May 2015	ENG			
								[G]1119	Marine Beacon Coverage Prediction	1.0/Dec 2016	ENG			
								G1126	Calculation of DGNSS Antenna Efficiency	1.0/June 2017	ENG			
								New	Provide guidance, strategy and advice on potential new uses of marine beacon DGNSS infrastructure		ENG			
								New	Marine beacon support (maintenance, knowledge, harmonisation)		ENG			
		R0150 R-150	DGNSS service provision upgrade and future use	1.0/Dec 2016	ENAV	Inf.	planned	[G]1053	Submission of a DGNSS Service for Recognition as a Component of the IMO World-Wide Radionavigation Service	1.0/Nov 2006	ENG			
		R-135	The Future of DGNSS	2.0/Dec 2008	ENAV	Inf		[G]1060	Recapitalisation of DGNSS	2.0/June 2011	ENG			
		R-129	GNSS Vulnerability and Mitigation Measures	3.0/Dec 2012	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	

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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
		New	SBAS performance for Maritime		ENG	Inf.		G1129	The Retransmission of SBAS Corrections Using MF-Radio Beacon and AIS. Develop guidance on satellite vulnerabilities.	1.0/Dec 2017	ENG			
								G1152	SBAS Maritime Service	1.0/Dec 2019	ENG	done		
IALA1040 Vessel Traffic Services	4.1 VTS implementation	R0102 V-102	The application of the 'User Pays' principle to Vessel Traffic Services	1.2/Dec 2011	VTS	Inf.			No document					
		R0119 V-119	The Implementation of Vessel Traffic Services (Review and update)	3.0/Dec 2019	VTS	Nor.	Scheduled	[G]1071	Establishment of a Vessel Traffic Service Beyond Territorial Seas	1.0/Dec 2009	VTS			
								[G]1083	Standard Nomenclature to Identify and Refer to VTS Centres	1.0/Dec 2011	VTS			
								G1150	Establishment of VTS	1.0/Dec 2019	VTS	Completed	C70 approved	
								New	Human Factors and Ergonomics in VTS		VTS			
		R0120 V-120	Vessel Traffic Services in Inland Waters	2.0/Dec 2013	VTS	Inf.			No document					
	4.2 VTS operations	R0127 V-127	Operational Procedures for Vessel Traffic Services	2.0/June 2011	VTS	Nor.	completed	[G]1089	Provision of VTS Services (INS, TOS & NAS)	1.0/Dec 2012	VTS	Scheduled		
								[G]1110	Use of Decision Support Tools for VTS Personnel	1.0/Dec 2014	VTS	Scheduled	Review	
								G1131	Setting and Measuring VTS Objectives	1.0/Dec 2017	VTS			
								G1141	Operational Procedures for VTS	1.0/Dec 2018	VTS	Completed	C68 approval	
								G1144	Guidelines for Promulgating the Requirements of a VTS To Mariners – A VTS Users Guide Template	1.0/Dec 2019	VTS	Completed	C68 approval	
			No document					[G]1045	Staffing Levels at VTS Centres	1.0/Dec 2005	VTS	Completed	C68 approval	
			No document					[G]1118	Marine Casualty / Incident Reporting and Recording, Including Near-Miss Situations as it Relates to VTS	1.0/Dec 2016	VTS			
			No document					New	Maritime Services in the context of e-Navigation relating to VTS		VTS		Cooperation with ENAV and IMO (merged with 1.2.7)	
			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	3.0/June 2012	VTS	Nor			No document					
		R1014	Portrayal of VTS information and data	1.0/Dec 2011	VTS	Nor		New	Guideline on the portrayal of VTS information and data		VTS			
	4.4 VTS communications	R1012	VTS Communications	1.0/Dec 2017	VTS	Nor		G1132	VTS VHF Voice Communication	1.0/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	4.0/May 2015	VTS	Nor	Scheduled	[G]1111	Preparation of Operational and Technical Performance Requirements for VTS Systems	1.0/May 2015	VTS			


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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
								New	Technical Acceptance of a VTS System		VTS			
	4.6 VTS Auditing and assessing	R1013	Auditing and Assessing Vessel Traffic Services	1.0/Dec 2017	VTS	Nor		[G]1101	Auditing and Assessing VTS	1.0/Dec 2013	VTS			
								[G]1115	Preparing for an IMO Member State Audit Scheme (IMSAS) on Vessel Traffic Services	1.0/Dec 2015	VTS			
	4.7 VTS additional services		No document					[G]1070	VTS Role in Managing Restricted or Limited Access Areas	1.0/Dec 2009	VTS			
			No document					[G]1102	VTS Interaction with Allied or Other Services	1.0/Dec 2013	VTS			
			No document					G1149	VTS training for deck officers	1.0/Dec 2019	VTS	Completed	C70 approved	
			No document					G1142	The provision of Local Port Services other than VTS	1.0/Dec 2018	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	1.0/Dec 2017	VTS			
IALA1050 Training and Certification	5.1 Training and assessment	R0141 (E-141)	Training and Certification of AtoN Personnel	4.0/Dec 2017	ENG	Nor		[G]1020	Training Related to [Marine] Aids to Navigation	1.1/Dec 2005	ARM		Update (ongoing) via WWA Make one for both AtoN and VTS	
		R0103 (V-103)	Training and Certification of VTS Personnel	2.2/June 2017	VTS	Nor		[G]1017	Assessment of Training Requirements for Existing VTS Personnel, Candidate VTS Operators, Revalidation of VTS Operator Certificates	1.1/Dec 2005	VTS	Scheduled	Review 5 MC associated with V-103	
								New	VTS training manual		VTS	Scheduled	delete	
								[G]1027	Simulation in VTS Training	1.1/Dec 2005	VTS			
								[G]1103	Train the Trainer	1.0/Dec 2013	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	1.0/Dec 2016	ARM	Nor		G1100	The Accreditation and Approval Process for AtoN Personnel Training	2.0/Dec 2017	ENG			
								[G]1014	Accreditation and Approval Process for VTS Training Courses	3.0/Dec 2011	VTS	Scheduled		
IALA1060 Digital Communication Technologies	6.1 Harmonised maritime connectivity framework (CMD5) 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	1.0/Dec 2013	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	2.0/May 2015	ENAV and ARM	Inf	Scheduled	[G]1113	Design and Implementation Principles for Harmonised System Architectures of Shore-Based Infrastructure	1.0/May 2015	ENAV and ARM	Scheduled	Revise	
								[G]1114	A Technical Specification for the Common Shore-Based System Architecture (CSSA)	1.0/May 2015	ENAV and ARM	Scheduled	Revise	
								New	Guideline on Marine AtoN Technical Service specification		ENAV			

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Standard	Scope	Recommendation						Guideline					Remarks	
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
		R0148 (e-NAV-148)	The need to implement regional e-Navigation solutions based on international standards	1.0/Dec 2015	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	
		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	1.0/June 2017	ENAV	Nor	Scheduled	G1117	VHF Data Exchange System (VDES) Overview	2.0/Dec 2017	ENAV	planned		
								G1139	Technical Specification of VDES	3.0/June 2019	ENAV			
		R0123 (A-123)	The Provision of Shore Based Automatic Identification System (AIS)	2.0/June 2007	ENAV	Nor	planned	[G]1050	Management and Monitoring of AIS Information	1.0/Dec 2005	ARM			
		A-124	The AIS Service Planned in draft Standard 1060 (R1008 reserved)	1.0/June 2017	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	1.0/Dec 2019	ENAV	Inf	Completed	New	Maritime Service Portfolios		ARM		in cooperation with VTS	
			No document					G1128	The Specification of e-Navigation Technical Services	1.0/Dec 2017	ENAV			
		NEW	Maritime Resource Names		ARM ENAV	Nor		G1143	Unique identifier for Maritime Resources	1.0/June 2019	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)	1.0/June 2011	ENAV	Nor	Scheduled	[G]1095	Harmonized Implementation of Application Specific Messages (ASMs)	1.0/May 2013	ENAV		Develop ASM P5	
		R0147 e-NAV-147	Product Specification Development and Management	2.0/June 2017	ARM	Nor		[G]1088	Introduction to Preparing S-100 Product Specifications	1.0/Dec 2012	ARM			
								G1087	Procedures for the Management of the IALA Domains under the IHO GI Registry	3.0/June 2017	ARM			
								[G]1085	Standard Format for Electronic Exchange of AtoN Product Information	1.0/June 2012	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	2.0/June 2017	ARM			
								G1106-1	IALA Product Specification Number Template	2.0/June 2017	ARM			

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Standard	Scope	Recommendation						Guideline					Remarks	
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status		
								G1106-2	Proposal for Additional S-100 Feature Concept Dictionary (FCD) Item – Name of Proposed FCD Item	2.0/June 2017	ARM			
								G1106-3	Product Specification under Development – Template	2.0/June 2017	ARM			
		R0145 V-145	The Inter-VTS Exchange Format (IVEF) Service	1.0/June 2011	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	1.0/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	