

C76-10.2.2.1 Work Programme for Committees 2018-2023

IALA Standards, Recommendations and Guidelines

Work in progress

Standard	Scope	Recommendation							Guideline					Remarks
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	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		C76 approval	G1078	The Use of AtoN in the Design of Fairways	1.0/June 2011	ARM		
									New	Develop guidance for navigators on the use of AtoN		ARM		
									G1094	Daymarks for Aids to Navigation	2.0/June 2016	ENG		
									G1038	Methods and Ambient Light Levels for the Activation of AtoN Lights	3.0/Dec 2016	ENG		
									G1122	The Use of Pictograms on Aids to Navigation	1.0/June 2017	ARM		
									G1041	Sector Lights	3.0/June 2016	ENG		WP 2023-2027
		R0111 (E-111)	Port Traffic Signals	1.2/Dec 2019	ENG	Nor		WP 2023-2027	New	Guideline on Port Traffic Signals		ENG		WP 2023-2027
		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	Done		new	Guideline to 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		ARM		C74 approved
		R1010	The Involvement of Maritime Authorities in Marine Spatial Planning	1.0/June 2017	ARM	Inf.			G1079	Establishing and Conducting User Consultancy by Aids to Navigation Authorities	1.0/Dec 2003	ARM		
									G1121	Navigational Safety Within Marine Spatial Planning	1.0/June 2017	ARM		
									G1033	Provision of Aids to Navigation for Different Classes of Vessels, Including High-Speed Craft	1.0/June 2017	ARM		
			No document						G1096	Anticipated User e-Navigation Requirements from Berth to Berth, for AtoN Authorities	1.0/May 2013	ARM		Task canceled
			No document						new	Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)		ARM, ENAV, ENG, VTS		ENAV lead with MASS TF
			No document						G1107	Planning and Reporting of e-Navigation Testbeds	2.0/June 2016	ENAV		C76 approval
			No document						G1153	Template for the review of emerging technologies for possible use by IALA members	1.0/Dec 2019	ENAV		C70 approved
									New	Internet of things		ENAV		C76 approval
									New	An introduction to artificial intelligence from an IALA perspective		ENAV		C76 approval
			No document						G1047	Cost Comparison Methodology of Buoy Technologies	1.0/Dec 2005	ARM		
			No document						G1090	The Use of Audible Signals	1.0/Dec 2012	ARM		
			No document						G1054	Preparing for a Voluntary IMO Audit on Aids to Navigation Service Delivery	1.0/Nov 2006	ARM		C73 approved
			No document						G1005	Contracting Out 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		


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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	Ref.	Title	Ed/Date	TC	Work/Status	
									G1035	Availability and Reliability of Aids to Navigation	2.0/Dec 2004	ENG		
									G1037	Data Collection for 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.			G1018	Risk Management	3.0/May 2013	ARM		C75 approved
									G1123	The Use of IALA Waterway Risk Assessment Programme (IWRAP MkII)	1.0/June 2017	ARM		C75 approved
									G1124	The Use of Ports and Waterways Safety Assessment (PAWSA MkII) Tool	1.0/June 2017	ARM		C75 approved
									G1138	The Use of the Simplified IALA Risk Assessment Method (SIRA)	1.0/Dec 2017	ARM		C76 approval
									G1104	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		ENG, ARM and VTS in cooperation (Consider recording and Storage in VTS-Systems)
									G1086	Global Sharing of Maritime Data	1.0/June 2012	ARM		Consider with ref to the above
		R0138 (O-138)	The Use of GIS and Simulation by Aids to Navigation Authorities	1.0/Dec 2007	ARM	Inf.			G1057	The Use of Geographical Information Systems by Aids to Navigation Service Delivery	1.0/Dec 2007	ARM		
									G1058	The Use of Simulation as a Tool for Waterway Design and Aids to Navigation Planning	2.0/June 2011	ARM		ARM revise R0138 and G1058 in cooperation with ENG
									G1097	Technical Features and Technology Relevant for Simulation of AtoN	1.0/May 2013	ARM, ENG		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.			G1046	Response Plan for the Marking of New Wrecks	2.0/June 2019	ARM		
									New	Marking of bridges and other structures over navigable waters		ARM		C76 approval
		R1016	Mobile AtoN (MatoN)	2.0/Dec 2020	ARM	Nor.		C72 approved	G1154	Guideline on MatoN	2.0/Dec 2020	ARM	C72 approved	
	1.5. Quality management	R0132 (O-132)	Quality Management for Aids to Navigation Authorities	2.1/Dec 2013	ARM	Nor.			G1052	Quality Management in Aids to Navigation Service Delivery	3.0/Dec 2013	ARM		
									New	Quality control for 3rd party AtoN service providers		ARM		C75 approved
			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				
		R0143 (O-143)	Provision of Virtual Aids to Navigation	2.0/June 2021	ARM	Inf.		C73 approved	G1081	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.		Done	G1145	Guideline on Retroreflective materials	1.0/June 2019	ENG	Done	
		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.			G1116	Selection of Rhythmic Characters and Synchronisation of Lights for Aids to Navigation	1.0/Dec 2016	ENG		ARM review G1116 in association with ENG

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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	Ref.	Title	Ed/Date	TC	Work/Status		
		R0112 E-112	Leading Lights (Dec 2005)	1.1/Dec 2005	ENG	Nor.		WP 2023-2027	G1023	Design of Leading Lines	1.1/Dec 2005	ENG		WP 2023-2027	
		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			G1043	Light Sources Used in Visual Aids to Navigation	1.2/Dec 2011	ENG			
									G1048	LED Technologies and their Use in Signal Lights	1.0/Dec 2005	ENG			
									G1061	Light Applications – Illumination of Structures	1.0/Dec 2008	ENG		WP 2023-2027	
		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			
		R0203 E-200-3	Marine Signal Lights – Terms of Measurement	1.0/Dec 2008	ENG	Nor.		C76 approval	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		WP 2023-2027	
		R0204 E-200-4	Marine Signal Lights - Determination and Calculation of Effective Intensity	2.0/Dec 2017	ENG	Nor.		C75 approved	G1135	Determination and Calculation of Effective Intensity	2.0/Dec 2020	ENG		C75 approval	
		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	Monitoring of the function and degradation of light sources		ENG			
									New	Service factors for AtoN lights		ENG			
									New	Colour fading of plastic AtoN		ENG		Write guideline (could be with a guideline on daymarks)	
			New recommendation on the responsible design and maintenance of AtoN		ENG	TBD			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.		cooperation with ENAV, VTS, ENG	G1082	An Overview of AIS	1.0/June 2016	ENAV			
									G1062	Establishment of AIS as a [Marine] Aid to Navigation	1.0/Dec 2008	ENAV			
									G1084	Procedure of the Authorisation of AIS AtoN	1.0/June 2011	ARM			
									G1098	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.			G1077	Maintenance of Aids to Navigation	1.0/Dec 2009	ENG		Develop recommendation	
		New	Requirements for AtoN provision in Polar regions (Standard 1010)		ARM	Inf			New	Develop guidance on AtoN provision in polar regions		ARM			
			New recommendation on the responsible design and maintenance of AtoN		ENG	TBD			G1092	Safety Management for AtoN Activities	2.0/Dec 2017	ENG			
									G1108	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			
									G1008	Remote Monitoring and Control of [Marine] Aids to Navigation	2.0/May 2009	ENG			

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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	Ref.	Title	Ed/Date	TC	Work/Status		
									G1109	Theft and Vandalism Deterrents	1.0/Dec 2013	ENG			
									G1012	Protection of Lighthouses and Marine Aids to Navigation Against Lightning	3.0/May 2013	ENG			
									G1051	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		C70 approved	
									New	AtoN Equipment for use in extreme environments		ENG		C76 approval	
									G1091	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.			G1066	Design of Floating Aid to Navigation Moorings	1.1/June 2010	ENG			
									New	Floating AtoN		ENG			
			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		C76 approval	
									New	overview guidance on floating AtoN (Rec or Guideline)		ENG			
									G1006	Plastic Buoys	4.0/Dec 2013	ENG			
									G1015	Painting Aids to Navigation Buoys	2.0/Dec 2013	ENG			
									G1099	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.		Done	G1036	Environmental Management in Marine Aids to Navigation	3.0/June 2017	ENG			
									New	Guidance on modern equipment in traditional lighthouses		ENG		WP 2023-2027	
									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.			G1007	Lighthouse Maintenance	1.1/Dec 2005	ENG			
									G1076	Building Conditioning of Lighthouses	1.0/Dec 2009	ENG			
									G1049	Use of Modern Light Sources in Traditional Lighthouse Optics	1.0/Dec 2008	ENG			
									G1063	Agreements for Complementary Use of Lighthouses	1.0/Dec 2008	ENG			
									G1074	Branding and Marketing Historic Lighthouses	1.0/Dec 2009	ENG			
									G1075	Business Plan for the Complementary Use of a Historic Lighthouse	1.0/Dec 2009	ENG			
									G1093	The Management of Surplus Lighthouse Property	1.0/Dec 2012	ENG			
									G1080	Selection and Display of Heritage Artefacts	1.0/Dec 2011	ENG			
	2.7 Power systems		New recommendation on the responsible design and maintenance of AtoN		ENG	TBD			G1039	Designing Solar Power Systems for AtoN	2.0/Dec 2017	ENG			
									G1039-1	Solar Power System Calculation Tool	2.0/Dec 2017	ENG			
									G1039-2	Handbook for Meteorological Data for IALA Solar Power System Calculation Tool	2.0/Dec 2017	ENG			
									New	Solar modules for a marine environment		ENG		C75 approved	
									G1064	Integrated Power Systems Lanterns	1.0/Dec 2008	ENG			

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		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	Ref.	Title	Ed/Date	TC	Work/Status	
									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		WP 2023-2027
									New	High accuracy systems		ENG		WP 2023-2027
									G1127	Systems and Services for High Accuracy Positioning and Ranging	1.0/Dec 2017	ENG		C75 approved
	3.2 Terrestrial positioning and timing	R1020	Terrestrial radionavigation systems Can note the IMO multi-sensor receiver for SOLAS ships (NCSR/MSC)	1.0/Dec 2020	ENG	Inf.		C72 approved	G1125	The Technical Approach to Establishing a Maritime eLoran Service	1.0/June 2017	ENG		
									New	S-245 eloran ASF data PS		ENG		C76 approval
									New	Guideline on R-Mode (MF)		ENG		
									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.		WP 2023-2027	G1010	Racon Range Performance	2.0/June 2005	ENG		WP 2023-2027
		R1006 R-101	Marine Radar Beacons (racons)	2.0/Dec 2004	ENG	Nor.		WP 2023-2027	G1147	New guideline on ERPS	1.0/June 2020	ENG		C75 approved
	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.			G1016	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.			G1112	Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 – 325 kHz	1.0/May 2015	ENG		
									G1119	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		item merged with ENG-3.4.2
									New	Marine beacon support (maintenance, knowledge, harmonisation)		ENG		
		R0150 R-150	DGNSS service provision upgrade and future use	1.0/Dec 2016	ENAV	Inf.			G1053	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.			G1060	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
		New	SBAS performance for Maritime		ENG	Inf.			G1129	The Retransmission of SBAS Corrections	1.0/Dec 2017	ENG		C75 approved

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									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	Establishment of VTS	4.0/Dec 2020	VTS	Nor.		C75 approved	G1071	Establishment of a Vessel Traffic Service Beyond Territorial Seas	1.0/Dec 2009	VTS			
									G1083	Standard Nomenclature to Identify and Refer to VTS Centres	1.0/Dec 2011	VTS			
									G1150	Establishing, planning and implementing VTS	2.0/Dec 2020	VTS		C75 approved	
		R0120 V-120	Vessel Traffic Services in Inland Waters	2.0/Dec 2013	VTS	Inf.			G1166	Vessel Traffic Services in Inland Waters	1.1/Jan 2022	VTS		C74 approved	
	4.2 VTS operations	R0127 V-127	Operational Procedures for Vessel Traffic Services	2.0/June 2011	VTS	Nor.			G1089	Provision of VTS Services (INS, TOS & NAS)	2.0/Dec 2020	VTS		C72 approved	
									G1110	Use of Decision Support Tools for VTS Personnel	1.0/Dec 2014	VTS		Review	
									G1131	Setting and Measuring VTS Objectives	1.0/Dec 2017	VTS			
									G1141	Operational Procedures for VTS	1.0/Dec 2018	VTS	Done		
									G1144	Promulgating the Requirements of a VTS To Mariners – A VTS Users Guide Template	1.0/Dec 2019	VTS	Done		
			No document						G1045	Staffing Levels at VTS Centres	1.0/Dec 2005	VTS			
			No document						G1118	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 1.2.3)	
			No document						New	Implications of Maritime Autonomous Surface Ships (MASS) from a VTS Perspective		VTS			
			No document						New	How to develop a Safety Culture in VTS		VTS		C76 approval	
			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		C76 approval		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		C76 approval	
	4.4 VTS communications	R1012	VTS Communications	1.0/Dec 2017	VTS	Nor			G1132	VTS Voice Communication and Phraseology	1.0/Dec 2017	VTS			
		NEW	Digital information transfer between ship and shore in VTS operations (Operational aspects)		VTS	Nor	planned		New	Develop guideline on digital information transfer between ship and shore in VTS operations (operational aspects)		VTS			
	4.5 VTS technologies	R0128 V-128	Operational and Technical Performance of VTS Systems	4.0/May 2015	VTS	Nor		C76 approval	G1111	Preparation of Operational and Technical Performance Requirements for VTS Systems	1.0/May 2015	VTS		C76 approval	
									G1111-1	Establishing functional and performance requirements for VTS systems and		VTS		C76 approval	
									G1111-2	producing requirement for voice communication		VTS		C76 approval	
									G1111-3	producing requirement for radar		VTS		C76 approval	
									G1111-4	producing requirement for AIS		VTS		C76 approval	
									G1111-5	producing requirement for environment monitoring sensors		VTS		C76 approval	
									G1111-6	producing requirement for electrooptical systems		VTS		C76 approval	
									G1111-7	producing requirement for radio detection finders		VTS		C76 approval	
									G1111-8	producing requirement for long range sensors		VTS		C76 approval	
									G1111-9	Framework for acceptance of VTS systems		VTS		C76 approval	


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	4.6 VTS Auditing and assessing	R1013	Auditing and Assessing Vessel Traffic Services	1.0/Dec 2017	VTS	Nor			G1101	Auditing and Assessing VTS	1.0/Dec 2013	VTS		
									G1115	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						G1070	VTS Role in Managing Restricted or Limited Access Areas	1.0/Dec 2009	VTS		
			No document						G1102	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	Done	C70 approved
			No document						G1142	The provision of Local Port Services other than VTS	1.0/Dec 2018	VTS	Done	
			No document						G1130	Technical Aspects of Information Exchange Between VTS and Allied or Other Services	1.0/Dec 2017	VTS		C76 approval
IALA1050 Training and Certification	5.1 Training and assessment	R0141 (E-141)	Training and Certification of AtoN Personnel	4.0/Dec 2017	ENG	Nor		C75 approved	G1020	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	3.0/Dec 2020	VTS	Nor	Done	C72 approved	G1017	Assessment of Training Requirements for Existing VTS Personnel, Candidate VTS Operators, Revalidation of VTS Operator Certificates	1.1/Dec 2005	VTS		Review 5 MC associated with V-103
									G1156	Recruitment, Training and certification of VTS personnel	1.0/Dec 2020	VTS		C72 approved
									G1027	Simulation in VTS Training	1.1/Dec 2005	VTS		
									New	Guideline on the management of a VTS		VTS		
									G1103	Train the Trainer	1.0/Dec 2013	VTS		
	5.2 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		
									G1014	Accreditation and Approval Process for VTS Training Courses	3.0/Dec 2011	VTS		
	5.3 Human factors and ergonomics		No document						New	Human Factors and Ergonomics in VTS		VTS		C75 approved
	5.4 Simulation in training		No document							No document				
	5.5 Capacity Building		No document							No document				
IALA1060 Digital Communication Technologies	6.1 Harmonised CMDs, Maritime IoT (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				G1105	Shore-side portrayal ensuring harmonisation with e-Navigation related information	1.0/Dec 2013	ARM		C76 Approval
									New	Develop guideline on meteorological and oceanographical data dissemination		ENG		
			No document						New	Tidal flow data capture & display		ENG		
		R0140 (e-NAV-140)	e-Navigation architecture	2.0/May 2015	ENAV and ARM	Inf			G1113	Design and Implementation Principles for Harmonised System Architectures of Shore-Based Infrastructure	1.0/May 2015	ENAV and ARM		Revise
									G1114	A Technical Specification for the Common Shore-Based System Architecture (CSSA)	1.0/May 2015	ENAV and ARM		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	1.0/Dec 2015	ENAV	Inf			New	New guideline could be merged with R0140		ENAV		Revise
		NEW	maritime connectivity platform		ENAV	Inf			New	Maritime Connectivity Platform		ENAV		ARM is working on user requirements

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Standard	Scope	Recommendation							Guideline					Remarks
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	Ref.	Title	Ed/Date	TC	Work/Status	
		New	Cyber-Security (Recommendation)		ENG/ARM/ VTS/ ENAV	Inf		C76 approval	New	Cybersecurity in AtoN operations		ENG/ARM/ VTS/ ENAV		Guideline to write Involve all Committees (organize Workshop)
		New	Cyber security digital information systems with focus on authenticity, confidentiality and integrity		ENAV	Nor				No document				
		New	Maritime Radiocommunication Plan (deprecate the MRCP)		ENAV	Nor			New	Implementation of Maritime Radiocommunication plan		ENAV		
	6.2 Wide/Medium bandwidth systems (AIS & VDES)	R1007	The VHF Data Exchange System (VDES) for shore infrastructure	1.0/June 2017	ENAV	Nor			G1117	VHF Data Exchange System (VDES) Overview	2.0/Dec 2017	ENAV		C76 approval
									G1158	VDES R-Mode	1.0/Dec 2020	ENAV		C72 approved
									G1139	Technical Specification of VDES	3.0/June 2019	ENAV		C76 request to withdraw
		R0123 (A-123)	The Provision of Shore Based Automatic Identification System (AIS)	2.0/June 2007	ENAV	Nor			G1050	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			New	Move recommendation A-124 content to Recommendation R1008 remainder to Guideline(s)		ENAV		
			No document						New	A-124 APPENDIX 0 to APPENDIX 19 become Guidelines for Recommendation R1008		ENAV		
	6.3 Narrow bandwidth systems (NAVDAT, MF beacons)	NEW	Digital MF information broadcast		ENAV	Nor			New	Supporting Guideline 500KHz Other channels (MF beacons)		ENAV		
IALA1070 Information Services	7.1 Data models and data encoding (S-200, IVEF, ASM and etc.)		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			New	Maritime Service Portfolios		ARM		in cooperation with VTS
									G1155	The development of a description of a maritime service in the context of e-Navigation	1.0/Dec 2020	ARM		C72 approved
			No document						G1128	The Specification of e-Navigation Technical Services	1.0/Dec 2017	ENAV		
		NEW	Maritime Resource Names		ARM ENAV	Nor		C75 approved	G1143	Unique identifier for Maritime Resources	2.0/Dec 2020	ARM		C72 approved
									New	MRN Registry submission and maintenance guideline		ARM		C74 approved
		e-NAV-144	Harmonized implementation of Application Specific Message (ASM)	1.0/June 2011	ENAV	Nor			G1095	Harmonized Implementation of Application Specific Messages (ASMs)	1.0/May 2013	ENAV		Develop ASM PS
		R0147 e-NAV-147	Product Specification Development and Management	2.0/June 2017	ARM	Nor			G1088	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		
									G1085	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		
									G1106-2	Proposal for Additional S-100 Feature Concept Dictionary (FCD) Item – Name of Proposed FCD Item	2.0/June 2017	ARM		

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Standard	Scope	Recommendation							Guideline					Remarks	
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Remark	Ref.	Title	Ed/Date	TC	Work/Status		
									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			New	Split into Recommendation and Guideline		VTS			
									New	Develop a product specification under the S-100 framework for VTS		VTS			
	7.2 Data exchange systems								G1157	Web service based S-100 data exchange	1.0/Dec 2020	ARM		C72 approved	
			No document						G1159	Develop Guideline on ship reporting from the shore-side perspective		ARM		C76 approval	
	7.3 Terminology, symbology and portrayal	new	Symbology and portrayal of AtoN		ARM	Nor		cooperation with revision G1105	New	Symbology and portrayal of AtoN (S-200 related)		ARM			