

Committee Work Programme

Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
S1010 Marine Aids to Navigation Planning And Service Requirements	S1010.1 Obligations and regulatory compliance	ARM 1.1.1 Monitor IMO work on STCW and develop IMO submissions and supporting advice on amendments to STCW in respect of IALAs inclusion within the Convention to cover AtoN training for navigators.	Develop a training course and make relevant training material available to enhance mariners understanding of marine aids to navigation (AtoN) and to facilitate the effective use thereof. IALA contribute to revise the STCW and relevant Model Courses.	Input to relevant IMO meetings and update IMO Model courses	ARM*	ARM*-1.1.1	Delayed	
		DTEC 1.1.1 Consider developing guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA	Develop a guideline on the certification of technical MASS equipment, information systems, and technical infrastructure within the domain of IALA.	New Guideline	DTEC* ARM VTS ENG	DTEC*-1.1.1 ARM-1.1.2 VTS-1.8.1 ENG-1.1.1	Not started	
		ENG 1.1.1 Consider developing guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA	Develop a guideline on the certification of technical MASS equipment, information systems, and technical infrastructure within the domain of IALA.		ENG* DTEC ARM VTS	ENG-1.1.1 DTEC*-1.1.1 ARM-1.1.2 VTS-1.8.1	Not started	

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		ARM 1.1.2 Consider developing guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA		On hold until recommendation is complete	ARM* DTEC ENG VTS	ARM-1.1.2 DTEC*-1.1.1 ENG-1.1.1 VTS-1.8.1	Delayed	This task has been put on hold until the recommendation is sorted and approved. Should consider changing out the word certification.
	S1010.2 Aids to Navigation planning	ARM 1.2.1 Compile new Guideline on AtoN Buoy Tender requirements and specification	New Guideline on Tender requirements. Verify numbering of this task on overall plan (combine 1.2.1 into only 1.2.2) ARM19-11.2.3 Liaison no to ENG regarding Buoy Tender activities ARM19-11.2.3.1 Draft Guideline on Buoy Tender Activities	New Guideline	ARM* ENG	ARM*-1.2.1 ENG-1.2.1	On track	
		ENG 1.2.1 Compile new Guideline on AtoN Tender requirements and specification - Led by ARM with ENG support.	New Guideline on Tender requirements.	New Guideline on Tender requirements.	ENG* ARM	ENG-1.2.1 ARM*-1.2.1	Finished	
		DTEC 1.2.1 Providing guidance on the process to implement developments of innovation	Develop a guideline on how to move from development test bed/trial reporting to implementation of innovative solutions.	New Guideline	DTEC*	DTEC-1.2.1	On track	

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		ARM 1.2.2 Compile guidance for buoy tender activities	WWA related	Model courses	ARM*	ARM*-1.2.2	On track	
		ENG 1.2.2 Review relevant sections of the NAVGUIDE			ENG* ARM VTS DTEC	ENG-1.2.2 ARM*-1.2.9 VTS-1.8.2 DTEC-1.2.3	Not started	
		ARM 1.2.3 Full review of Guideline G1078 The Use of AtoN in the Design of Fairways	Revise Guideline G1078	Revised Guideline	ARM*	ARM*-1.2.3	Not started	
		DTEC 1.2.3 Review relevant sections of the NAVGUIDE			DTEC* ARM ENG VTS	DTEC-1.2.3 ARM*-1.2.9 ENG-1.2.2 VTS-1.8.2	Not started	
		ENG 1.2.3 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS).			ENG* VTS	ENG-1.2.3 VTS-1.8.3	Not started	
		ARM 1.2.4 Development of aspects of digital communications, including promoting broadband connectivity for operational technology.	Based on IHO/IALA portrayal and IALA comms workshop output. Scope requirements and delivery chain. To start after IHO/IALA workshop Sept. 2024.		ARM* DTEC	ARM-1.2.4 DTEC*-1.2.2	Not started	

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		DTEC 1.2.4 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS).	The Guideline will be continued leaded by DTEC	New Guideline and Recommendation	DTEC* ARM VTS	DTEC*-1.2.4 ARM-1.2.8 VTS-1.8.3	Delayed	Noting outcomes of PAP, this item was on hold for DTEC4
		ARM 1.2.5 Guidance on the use of simple IOT sensors on physical aids	Establish requirement for IOT sensors.	Guideline	ARM*	ARM*-1.2.5	On track	
		ARM 1.2.6 Develop further guidance for navigators on the use of AtoN	Develop a guideline and make relevant training material available to enhance mariners' understanding of marine aids to navigation (AtoN) and to facilitate the effective use thereof.	Guideline Model course for use in STCW courses	ARM*	ARM*-1.2.6	Not started	
		ARM 1.2.8 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS).			ARM* DTEC VTS	ARM-1.2.8 DTEC*-1.2.4 VTS-1.8.3	Delayed	
		VTS 1.8.1 Develop guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA			VTS* DTEC ARM ENG	VTS-1.8.1 DTEC*-1.1.1 ARM-1.1.2 ENG-1.1.1	Not started	

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		VTS 1.8.2 Review relevant sections of NAVGUIDE in cooperation with the Secretariat			VTS* ARM ENG DTEC	VTS-1.8.2 ARM*-1.2.9 ENG-1.2.2 DTEC-1.2.3	Not started	
		VTS 1.8.3 Develop guidance on the provision of AtoN and risk management for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)			VTS* DTEC ARM ENG	VTS-1.8.3 DTEC*-1.2.4 ARM-1.2.8 ENG-1.2.3	Not started	
	S1010.4 Risk management	DTEC 1.4.1 Develop Guidance on Risk Assessment and Certification Methods in the context of e-Navigation	Development of guidance documents on Risk Assessment and Certification Methods in the context of e-Navigation.	Recommendation or Guideline	DTEC*	DTEC*-1.4.1	Not started	
		ARM 1.4.1 Develop comprehensive guidance that will assist members enhance the safety of navigation and environmental protection in / around offshore renewable energy installations (OREI).		A document providing comprehensive guidance that will assist members enhance the safety of navigation and environmental protection in / around offshore renewable energy installations (OREI).	ARM* VTS	ARM*-1.4.1 VTS-1.8.5	Finished	A

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		ENG 1.4.1 Develop guidance on cyber security for Marine AtoN			ENG* ARM DTEC	ENG-1.4.1 ARM*-1.4.3 DTEC-1.4.2	Finished	
		ARM 1.4.10 Develop a Guideline for Risk Assessment and Cyber Security	Guideline for Risk Assessment and Cyber Security including Risk assessment methods, Identification of risks, Identification of counter measures, Identification of core elements to ensure cyber security	New or revised Guideline	ARM*	ARM*-1.4.10	Finished	
		ARM 1.4.11 Develop guidance on measurement to monitor waterway risk	Develop measures for and a method to monitor waterway risk. Includes effectiveness of risk mitigations, qualitative validation with stakeholders, and reevaluation of risks.	Update Recommendations and Guidelines as appropriate	ARM*	ARM*-1.4.11	On track	New task (ARM17-11.4.3)
		ARM 1.4.3 New guideline in support of the recommendation on Cyber security		Guideline	ARM* ENG DTEC	ARM*-1.4.3 ENG-1.4.1 DTEC-1.4.2	Not started	
		ARM 1.4.4 Review Risk Management related documentation. Update as per ongoing risk toolbox developments.		Reviewed recommendations and guidelines	ARM*	ARM*-1.4.4	On track	
		ARM 1.4.5 Develop a method to quantify and evaluate various risk mitigation options		Revised guidelines	ARM*	ARM-1.4.5	On track	

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		ARM 1.4.6 Encourage IALA members and other organisations to share historic AIS and other vessel tracking data with IALA. IALA aims to use such data for risk assessment, research and training purposes.	Review existing guidance (including G1086) and develop new guidance to assist IALA in its aim to gather historic AIS and other vessel tracking data.	Revised guidelines	ARM*	ARM*-1.4.6	Finished	Member States indicated the challenges within their own countries with ability to provide. WG decided to not move this forward.
		ARM 1.4.7 Conduct a global scan of current risk analysis tools and identify potential candidates for inclusion within the IALA Risk Management Toolbox.		Risk management toolbox survey	ARM*	ARM-1.4.7	On track	
		ARM 1.4.8 Monitor the IRMAS reporting tool, ensuring it meets the requirements for future records of risk management. Ensure the form is modified as required.		Reportage	ARM*	ARM*-1.4.8	Finished	Form modified as required.

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		ARM 1.4.9 Ensure long term sustainable supportability for IWRAP S software.			ARM*	ARM*-1.4.9	Finished	IWRAP developers created commercial company. Task is no longer necessary.
		VTs 1.8.5 Enhancing the safety and efficiency of navigation around offshore installations	G1185 was approved by Transition Council 3 in December 2024. The Committee will review the new guideline for relevance to IALA VTS guidance documents.		VTs* ARM	VTs-1.8.5 ARM*-1.4.1	Not started	TC03 approved G1185 from ARM
	S1010.5 Quality management	ARM 1.5.1 Develop a recommendation and guideline consolidating content from G1030, G1035 and G1004.	Compile a recommendation and guideline to incorporate all references relating to the Categorization, Availability Objectives (G1030), Availability and Reliability for Short Range Aids to Navigation (G1035), Calculation of Availability (G1004) and relevant text appearing in the 2018 & draft 2023 NAVGUIDE that are not cross-referenced in the aforementioned Guidelines.	Recommendation, Guideline	ARM*	ARM*-1.5.1	On track	
		ARM 1.5.2 Revision of Guideline 1052 on Quality Management in Marine Aids to Navigation Service Delivery	Revised Guideline G1052	Revised Guideline	ARM*	ARM*-1.5.2	Finished	
		ARM 1.5.3 Revise Recommendation R0132 Quality management for AtoN authorities	New edition of R0132	Revised Recommendation	ARM*	ARM*-1.5.3	Finished	

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S1020 Marine Aids to Navigation Design and Delivery	S1020.1 Aids to Navigation signalling	ENG 2.1.1 Update G1043 Light sources used in visual AtoN	Review & update guideline G1043 on Light sources and amalgamate with Guideline on modern equipment in traditional lighthouses	New amalgamated Guideline	ENG*	ENG*-2.1.1	Not started	
		ARM 2.1.1 Consider developing guidance on the marking of test areas for autonomous vessels and vehicles, ice roads and competition and event areas etc	Develop Guidance on the marking of test area for autonomous/remote controlled ships/vehicles, ice roads and competition event areas.	New Guideline	ARM*	ARM*-2.1.1	On track	
		ENG 2.1.2 Update G1048 LED technologies and their use in signal lights	Update Guideline 1048 LED Technologies and their use in signal lights	Revised Guideline	ENG*	ENG*-2.1.2	Not started	
		ENG 2.1.3 Develop guideline on Port Traffic Signals	Develop a new guideline on Port Traffic Signals in consultation with ARM	New Guideline	ENG*	ENG*-2.1.3	Not started	
		ENG 2.1.4 Update R0112 Leading lights	Update E-112 Leading Lights and 1023 Leading Lines into a guideline	New Guideline	ENG*	ENG*-2.1.4	On track	
		ENG 2.1.5 Update G1061 Light application illumination of structures	Complete Guideline G1061 (2008) on Illumination of Structures	Revised Guideline	ENG*	ENG*-2.1.5	Not started	
	S1020.2 Design, Implementation & Maintenance	ENG 2.1.6 Update R0203(E200-3)	Update E200-3 on Light measurement into a guideline	New Guideline	ENG*	ENG*-2.1.6	On track	

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		DTEC 2.2.1 Full review of A-126, G1084 and other AIS associated documentation		Revised recommendations and guidelines	DTEC* ARM VTS	DTEC-2.2.1 ARM*-2.2.2 VTS-2.8.5	Not started	
		ARM 2.2.1 Develop Recommendation and Guideline on the use of Drones for AtoN inspection and maintenance		New recommendation and guideline	ARM* VTS	ARM*-2.2.1 VTS-2.8.6	Finished	
		ARM 2.2.2 Full review of A-126, G1084 and other AIS associated documentation	ARM coordinate cross-committee review to consolidate and update AIS documentation into a succinct document suite.	Revised or recommended Guidelines	ARM* VTS DTEC	ARM*-2.2.2 VTS-2.8.5 DTEC-2.2.1	On track	
		ENG 2.2.3 Update G1041 Sector Lights	Update Guideline 1041 on Sector Lights to define Angle of Uncertainty	Revised Guideline	ENG*	ENG*-2.2.3	Not started	
		ARM 2.2.3 Develop an IALA recommendation and guideline on the Harmonized National Waterway Concept	Develop recommendation & guideline (with possible repository of waterways hosted by IALA)	Recommendation & Guideline	ARM*	ARM*-2.2.3	Finished	The recommendation and guideline was approved by council and published December 2024
		ARM 2.2.4 Develop an IALA guideline on the Maritime Architecture Framework		New Guideline	ARM*	ARM*-2.2.4	Not started	

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		ENG 2.2.4 Update G1037 Data collection for AtoN performance calculation	Update G1037 Data collection for AtoN performance calculation 2.0 Provides details of methods that can be used to collect information on the availability and reliability of AtoN equipment.	Revise Guideline	ENG*	ENG-2.2.4	Delayed	
		ENG 2.2.5 Update G1077 Maintenance of AtoN	Update G1077 Maintenance of AtoN 1.0 Information to help develop a maintenance strategy. Several annexes are attached to provide detailed information on the activities involved in the maintenance.	Revised Guideline	ENG*	ENG*-2.2.5	Finished	
		ENG 2.2.6 Develop Guideline on complimentary use of AtoN	Develop Guideline on complimentary use of AtoN. Eg. Tsunami monitoring, Met Hydro monitoring, Private communications platforms etc. Develop Guideline on meteorological and oceanographical data dissemination	New guideline on Complimentary use of AtoN	ENG*	ENG*-2.2.6	On track	
		ENG 2.2.7 Update and Amalgamate the Guidelines G1108, G1175 and G1136	Update and Amalgamate the Guidelines 1108, 1136 and new guideline "AtoN equipment and structures exposed to extreme environmental conditions into one guideline"	Revise Guideline	ENG*	ENG*-2.2.7	Finished	
		ENG 2.2.8 Update G1165 on Sustainable Structural Design			ENG*	ENG-2.2.8	Not started	
		VTs 2.8.6 Develop Recommendation and Guideline on the use of Drones for AtoN inspection and maintenance		New recommendation and guideline	VTs* ARM	VTs-2.8.6 ARM*-2.2.1	Not started	

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	S1020.3 Floating Aids to Navigation	ARM 2.3.1 Update G1066 Design of floating AtoN moorings		Updated Guideline on Design of floating AtoN moorings	ARM* ENG	ARM-2.3.1 ENG*-2.3.4	Not started	
		ENG 2.3.2 Creating an overview guidance on floating AtoN	Creating an overview guidance on floating AtoN	New Guideline on floating AtoN	ENG*	ENG*-2.3.2	Finished	
		ENG 2.3.3 Update Recommendation R0107 (E-107) Moorings for floating AtoN	Update Recommendation E-107 Moorings for floating AtoN 2.0 Technical recommendation on moorings.	Updated Recommendation on moorings for floating AtoN	ENG*	ENG*-2.3.3	Delayed	
		ENG 2.3.4 Update G1066 Design of floating AtoN moorings	Update G1066 Design of floating AtoN moorings 1.1 General consideration on mooring materials, and comparison of mooring loads and design.	Updated Guideline on Design of floating AtoN moorings	ENG* ARM	ENG*-2.3.4 ARM-2.3.1	Delayed	
		ENG 2.5.1 Develop guidance on floating AtoN maintenance	Develop guidance on the maintenance of buoys	new or revised guideline	ENG*	ENG*-2.5.1	On track	
	S1020.4 Environment and sustainability	ENG 2.4.1 Review and update as necessary G1036, the Green Guide	Review and update as necessary of G1036 on Environmental Management in Aids to Navigation (the Green Guide)	Revise guideline on Environmental and Sustainability responsibilities.	ENG*	ENG*-2.4.1	Not started	
		ENG 2.4.2 Guidance on through life environmental impact	Guideline on how to assess the through life environmental impact of AtoN and AtoN provision	New Guideline	ENG*	ENG*-2.4.2	Not started	

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	S1020.6 Heritage & Culture	ENG 2.6.1 Maintain the Heritage web page on the IALA website	Maintain the Heritage web page on the IALA website	Updated Heritage web page	ENG*	ENG-2.6.1	On track	
		ENG 2.6.2 Develop Guidance on modern equipment in traditional lighthouses	Develop Guidance on modern equipment in traditional lighthouses	New Guideline	ENG*	ENG*-2.6.2	On track	
		ENG 2.6.3 Heritage Lighthouse of the Year award	Make proposal for the Heritage Lighthouse of the Year award	Maintain the Award	ENG*	ENG*-2.6.3	On track	
		ENG 2.6.4 Write the Heritage lecture for the WWA L1.1 AtoN Manager course	Write the Heritage lecture for the WWA L1.1 AtoN Manager course	New module on Heritage to include in the L1.1 course.	ENG*	ENG*-2.6.4	On track	
		ENG 2.6.5 Review of G1080 The Selection and Display of Heritage Artefacts	Review of documents pertinent to heritage artefact management	Revised documents	ENG*	ENG*-2.6.5	On track	
		ENG 2.6.5.b Review Guideline G1093 Ed.1 The Management of Surplus Lighthouse Property, Dec 2012	G1093 provides guidance to AtoN Managers and their teams on the most appropriate methods for the management or disposal of surplus lighthouse properties in order to preserve the lighthouse heritage to the best level possible. This task is review of the guidelines.	The expected outcome of this task is the preparation of updated guidelines for G1093.	ENG*	ENG-2.6.5.b	Finished	

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		ENG 2.6.6 Update G1063 Agreement for complementary use of lighthouses	Update G1063 Agreement for complementary use of lighthouse property. What should the agreement contain and safety aspect of the agreement including examples of few countries.	Updated Guideline	ENG*	ENG*-2.6.6	On track	
		ENG 2.6.7 Review Guidelines 1074 and 1075 on Branding, Business plans for content and relevance	Review Guidelines 1074, 1075 & 1076 on Branding, Business plans and Building Conditioning for content and relevance.	Reviewed guidelines	ENG*	ENG*-2.6.7	On track	
		ENG 2.6.8 Review of R1005 Conserving the Built Heritage of Lighthouses and other Aids to Navigation	Review existing recommendation and update to reflect current needs and aims.		ENG*	ENG-2.6.8	Finished	
S1030 Radionavigation Services	S1030.1 Satellite positioning and timing	ENG 3.1.1 Develop guidance on timing and synchronization	New Guideline on the need and potential solutions on timing and synchronization.	New Guideline	ENG*	ENG*-3.1.1	Not started	
		ENG 3.1.2 WWRNP review	Review and update the World Wide Radionavigation Plan (2012).	New Guideline	ENG*	ENG*-3.1.2	On track	
	S1030.2 Terrestrial positioning and timing	ENG 3.2.1 R-Mode development	Development of R-Mode Guideline Coordination of R-Mode test beds	New Guideline	ENG*	ENG-3.2.1	On track	
		ENG 3.2.2 Develop the Recommendation and Guideline on R-Mode implementation (MF & VDES)			ENG*	ENG-3.2.2	On track	

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		ENG 3.2.3 Develop the Recommendation for the Coordination for Group Repetition Intervals (GRI)	Development of a Guideline on procedures for assigning and maintaining PNT station data		ENG*	ENG-3.2.3	Not started	
	S1030.3 Augmentation services	ENG 3.3.1 Augmentation systems	Monitoring DGNSS developments, both SBAS and marine Radiobeacon and update IALA documents as necessary	Reportage	ENG*	ENG*-3.3.1	On track	
		ENG 3.3.2 High accuracy positioning systems	Guidance on new systems and how they can be used	New Guideline	ENG*	ENG*-3.3.2	On track	
		ENG 3.3.3 Develop Guideline on how to implement SBAS within VDES(ASM-VDE)/AIS	Standardize the mechanism to provide SBAS correction and integrity information through VDES		ENG*	ENG-3.3.3	Not started	
		ENG 3.3.4 Develop a recommendation on SBAS services	Development of a SBAS recommendation		ENG*	ENG-3.3.4	Not started	
	S1030.4 Racon and Radar positioning	ENG 3.4.1 Radar & Enhanced Racon positioning	Development of eRacon/eRadar technology Review related IALA documents	Revised Guideline\was task 3.3.1 in ENG17 report	ENG*	ENG*-3.4.1	On track	
		ENG 3.4.2 IMO liaison on Racon	Create a Liaison note to IMO on Racon		ENG*	ENG-3.4.2	Finished	ENG19-9.2.2.3 Liaison note to IMO on Enhanced Radar Positioning Systems

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		ENG 3.4.3 Modify R0101 to recommendation and create new Guide line	Update/modify R0101 to a recommendation and create new Guideline possible working name of Guideline		ENG*	ENG-3.4.3	On track	
		ENG 3.4.4 Modify R0146 to a recommendation			ENG*	ENG-3.4.4	On track	
		ENG 3.4.5 Update G1010 Racon Range Performance			ENG*	ENG-3.4.5	Not started	
S1040 Vessel Traffic Services	S1040.1 VTS Implementation	VTS 1.1.2 Develop guidance for establishing a compliance and enforcement framework by participating ships in a VTS area	Develop guidance for establishing a compliance and enforcement framework by participating ships	New Guideline	VTS*	VTS*-1.1.2	Not started	
		VTS 1.1.3.a Develop guidance on the implications of maritime autonomous surface ships (MASS) from a VTS perspective	a) Develop guidance on the implications of maritime autonomous surface ships (MASS) from a VTS perspective	New Guideline or contribute to a single IALA MASS guideline	VTS*	VTS-1.1.3.a VTS-1.1.3.b	Delayed	The document was re-titled VTS Interaction with a Mix of Conventional, Automated and Autonomous Ships

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		VTs 1.1.3.b Develop guidance on the implications of maritime autonomous surface ships (MASS) from a VTS perspective	b) Assess the implications associated with the advent of MASS on IALA Standards specifically related to the establishment and operation of VTS (scoping exercise)	New Guideline or contribute to a single IALA MASS guideline	VTs*	VTs-1.1.3.b VTs-1.1.3.a	Delayed	
		VTs 1.1.4 Develop guidance on delineating the VTS area	Develop guidance on delineating the VTS area considering risk assessment and MRN.	A new guideline or including a new section/annex in G1150 on considerations on delineating a VTS area.	VTs*	VTs*-1.1.4	On track	
		VTs 1.1.5 Develop guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations	Develop guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations	Recommendation and/or guideline to assist competent authorities for VTS	VTs*	VTs*-1.1.5	On track	
	S1040.2 VTs Operations	VTs 1.2.1 Develop guidance for digital route exchange within VTS operations	Develop guidance for digital route exchange within VTS operations (application of S-421)	New Guideline	VTs*	VTs*-1.2.1	Not started	
	S1040.3 VTs Communications	VTs 1.3.1 Develop guidance on VTS digital communications	Develop guidance on VTS digital communications (operational aspects) (in consultation with DTEC)	New Guideline	VTs*	VTs*-1.3.1 VTs-6.3.2 VTs-2.5.2.c	On track	
		VTs 1.3.2 Review and update IMO Resolution A.918(22) on SMCP	Revision of IMO Resolution A.918(22) IMO Standard Marine Communication Phrases, particularly as regards VTS communication phrases.	Revised IMO Resolution on SMCP	VTs*	VTs*-1.3.2	On track	Awaiting output at IMO

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		VTS 6.3.2 Develop guidance on VTS digital communications		New Guideline	VTS*	VTS-6.3.2 VTS*-1.3.1 VTS*-2.5.2 VTS*-2.8.1 VTS-2.5.2.c	Not started	
	S1040.4 VTS auditing and assessing	VTS 3.4.1 Develop guidance on aptitudes required by VTS operators	Guidance specifying the aptitudes required by VTS operators (aptitude/psychometric testing?) and how to assess for those aptitudes taking into consideration national legislation and requirements.	New Guideline	VTS*	VTS*-3.4.1	On track	

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	S1040.5 VTS data and Information management	VTS 2.5.2 Develop Technical Service Specifications for VTS	The task will work on developing technical service specifications for VTS using a number of existing guidelines and standards. The main guideline will be G1128 'Specification of e-navigation technical services'. This provides the overall guideline for developing the specifications which is aligned with the template for technical services provided in IMO MSC.467(101) 'Guidance on the definition and harmonization of the format and structure of Maritime Services in the context of e-navigation'. Other relevant guidelines/standards include: G1157 'Web Service Based S-100 Data Exchange' IEC 63173-2 'Secure exchange and communication of S-100 based products' (SECOM) IALA G1143 'Unique identifiers for maritime resources' IALA G1161 'Guideline on platforms to support the provision of maritime services in the context of e-navigation'. Furthermore – the technical services will be depending on the VTS S-100 product specification with regard to data-model and portrayal. The process (milestones) may be: Identity technical services Finalise first (simple) technical service perform testing Continue specification of all identified services Test Complete specifications	A number of technical service specifications	VTS*	VTS*-2.5.2 VTS-6.3.2 VTS-2.5.2.c	On track	

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		VTs 2.5.2.a Develop Technical Service Specification for VTS Traffic Clearance			VTs*	VTs-2.5.2.a VTs-2.5.2.b	On track	Updated version produced during VTs57
		VTs 2.5.2.b Develop Technical Service Specifications for Route Exchange			VTs*	VTs-2.5.2.b VTs-2.5.2.a	On track	
		VTs 2.5.2.c Coordination and combined use of VTs S-100 Technical Services (choreography)	Provide governance on the development of S-100 VTs services for digital data exchange between VTs and vessels.Specify how VTs digital services are related to each other and how they are used together.	Change proposals to the guideline on VTs Digital Communication.Change proposals to existing VTs S-100 services.P proposals for new VTs S-100 services.Living workingpaper that describes the relations between the VTs-100 services	VTs*	VTs-2.5.2.c VTs*-2.5.2 VTs*-2.8.1 VTs*-1.3.1 VTs-6.3.2	On track	Task 1.8.6 was incorporated at VTs57
		VTs 2.5.2.d Develop Technical Service Specifications for Under Keel Clearance (UKC)	Develop technical service specifications for UKC by using existing product specifications under the S-100 framework.Develop the service design for the UKC service which will be derived from the technical service specification.	Technical Service Specification and Service Design for the UKC service	VTs*	VTs-2.5.2.d	Not started	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
	S1040.6 VTS technologies	VTs 2.6.1 Update G1111-1 Producing requirements for the core VTS system	Consider updating G1111-1 to include guidance on VTS management information systems	Revised Guideline	VTs*	VTs*-2.6.1	On track	
		VTs 2.8.5 Full review of A-126, G1084 and other AIS associated documentation		Revised recommendations and guidelines	VTs* ARM DTEC	VTs-2.8.5 ARM*-2.2.2 DTEC-2.2.1	Not started	
S1050 Training and Certification	S1050.1 Training and assessment	VTs 3.1.1 Develop guidance for dealing with stress or trauma in VTs operations	Develop new IALA guidance in establishing support for VTs Personnel that have handled a significantly stressful or traumatic incident in VTs operations	New IALA guidance in establishing support protocols for VTs Personnel following a significantly stressful or traumatic incident	VTs*	VTs*-3.1.1	On track	
		VTs 3.8.1 Revision of G1103 Train the Trainer	Revision of G1103 on Train the Trainer	Withdrawn IALA Guideline; Revised IALA Guideline or New IALA Model Course	VTs*	VTs*-3.8.1	On track	
		VTs 3.8.2 Develop guidance for remote training in VTs	Develop a Guideline for Remote training in VTs	New or revised guideline	VTs*	VTs*-3.8.2	On track	
		VTs 3.8.3 Develop a model course on incident response and crisis coordination	Develop a model course on training on incident response and for crisis coordinators within AtoN and VTs system operating organisations.	Model course	VTs* ARM	VTs-3.8.3 ARM*-5.1.1	Not started	Awaiting input prior to commencing

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		VTs 3.8.4 WWA lesson plans to review		Review and update of the WWA Lesson plans	VTs* ENG ARM DTEC	VTs-3.8.4 ENG*-5.1.1 ARM-5.1.3 DTEC-5.1.1	Not started	Awaiting input prior to commencing
		VTs 3.8.5 Training in implementation of digital solutions (data analytics & maritime informatics)		New Guideline and training programs	VTs* DTEC ARM ENG	VTs-3.8.5 DTEC*-5.1.2 ARM-5.1.2 ENG-5.1.2	Not started	Awaiting input prior to commencing
		VTs 3.8.6 Revision of G1027 on Simulation in VTs training	Revision of G1027 on Simulation in VTs training	Revised IALA Guideline	VTs*	VTs*-3.8.6	Finished	
		VTs 3.8.7.c Revision of IALA VTs model course c) C0103-5 VTs Revalidation Process	Revision of C0103-5 (V-103/5) The Revalidation Process for VTs Qualification and Certification	Model Course	VTs*	VTs-3.8.7.c VTs-3.8.7.a VTs-3.8.7.b	On track	
		ARM 5.1.1 Develop a model course on incident response and crisis coordination	Develop a model course on training on incident response and for crisis coordinators within AtoN and VTs system operating organisations. Seek further detail on intent of task.	Model course	ARM* VTs	ARM*-5.1.1 VTs-3.8.3	Not started	
		ENG 5.1.1 WWA lesson plans to review	Review and update of the WWA Lesson plans as requested by the Academy.	Review and update of the WWA Lesson plans	ENG* ARM VTs DTEC	ENG*-5.1.1 ARM-5.1.3 VTs-3.8.4 DTEC-5.1.1	Not started	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		DTEC 5.1.1 WWA lesson plans to review		Review and update of the WWA Lesson plans	DTEC* ENG ARM VTS	DTEC-5.1.1 ENG*-5.1.1 ARM-5.1.3 VTS-3.8.4	Not started	Waiting on input from IALA WWA
		DTEC 5.1.2 Training in implementation of digital solutions (data analytics & maritime informatics)	Develop a guideline on skills related to the digital environment, such as data analytics and maritime informatics and associated training programs with WWA.	New Guideline and training programs	DTEC* ARM VTS ENG	DTEC*-5.1.2 ARM-5.1.2 VTS-3.8.5 ENG-5.1.2	Not started	Awaiting input
		ARM 5.1.2 Training in implementation of digital solutions (data analytics & maritime informatics)		New Guideline and training programs	ARM* DTEC ENG VTS	ARM-5.1.2 DTEC*-5.1.2 ENG-5.1.2 VTS-3.8.5	Not started	
		ENG 5.1.2 Training in implementation of digital solutions (data analytics & maritime informatics)		New Guideline and training programs	ENG* DTEC ARM VTS	ENG-5.1.2 DTEC*-5.1.2 ARM-5.1.2 VTS-3.8.5	Not started	
		ARM 5.1.3 WWA lesson plans to review		Review and update of the WWA Lesson plans	ARM* ENG VTS DTEC	ARM-5.1.3 ENG*-5.1.1 VTS-3.8.4 DTEC-5.1.1	Not started	
	S1050.2 Accreditation, competency certification and revalidation	VTS 3.8.8 Consider including English language competency requirements in VTS operations	New guidance on development of [or provision of] a VTS specific English language assessment.	New Guideline	VTS*	VTS*-3.8.8	On track	Liaise with WG1

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		ARM 5.2.1 Develop a model course on AtoN Cyber Security arrangements		Model course	ARM*	ARM*-5.2.1	Finished	
		ARM 5.2.2 Create S-100 model course	How to make use of S-100 product specifications	Model course	ARM*	ARM*-5.2.2	Finished	
S1060 Digital Communication Technologies	S1060.1 Wide and medium bandwidth systems	DTEC 6.1.1 Review and update R0144 and G1095 - Update to the latest development of ASM	Harmonized implementation of Application Specific Message (ASM)	Recommendation and guideline	DTEC*	DTEC*-6.1.1	Not started	DTEC 4 Proposal to Council to cancel the work on S-230 / DTEC4 requested the Secretariat to move this task to ARM
		ARM 6.1.1 Review G1050 Management and Monitoring of AIS Information	Coordinate with ARM WG3 (IALANET, etc.).	Revised guideline and Periodic Review	ARM*	ARM*-6.1.1	On track	
	S1060.2 Narrow bandwidth systems	DTEC 6.2.1 Contribute to the development of IMT-2030 by formulating user requirements for Marine AtoN.	Contribute towards the development of 3GPP mobile communication standards, with a specific focus on the maritime industry vertical.	Guideline, Reportage, input to 3GPP	DTEC*	DTEC*-6.2.1	On track	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
	S1060.3 Harmonised maritime connectivity	VTs 2.8.7 Develop guidance on Digital VHF communication	Develop a guideline for migrating current analogue VHF voice communications to digital VHF voice communications.	New guideline	VTs* DTEC	VTs-2.8.7 DTEC*-6.3.2	Not started	
		ENG 6.3.1 Update G1008 Remote control and monitoring of AtoN	Remote control and monitoring of AtoN. Objectives of remote control and monitoring, and technical aspects such as communication links, display, maintenance and integration with other systems.	Revised Guideline	ENG*	ENG*-6.3.1	Not started	
		ARM 6.3.1 Review und update G1062 Establishment of AIS as a [Marine] Aid to Navigation	Update to the latest development of AIS; This revision must be reflected in G1022, i.e. MatoN	Revised G1062	ARM*	ARM*-6.3.1	On track	
		DTEC 6.3.10 New IALA Guideline on VDES system integration into ship and shore side	Develop documentation on the integration and operations of VDES for different user groups - leveraging the capabilities VDES provide and maintain them by managing the resource by optimized operations.	New Guideline	DTEC*	DTEC*-6.3.10	On track	
		DTEC 6.3.11 Maintain existing IALA Standards, Recommendations and Guidelines for the AIS Service	Develop Recommendation for the AIS Service Planned in draft Standard S1060 (supersedes A-124). Integrate the useful content of A-124 into the new recommendation(s) on VDES shore infrastructure.	update of standards, recommendations (new VDES infrastructure guideline is another separate Task)	DTEC* ARM	DTEC*-6.3.11 ARM-6.3.2	On track	part of 6.3.10

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		DTEC 6.3.12 Review of the contents of A-124 series recommendations	A-124 APPENDIX 0 to APPENDIX 19 become Guidelines for Recommendation R1008: Move recommendation A-124 content to Recommendation R0123 remainder to Guideline(s)	New Guideline	DTEC* ARM	DTEC*-6.3.1 2 ARM-6.3.3	On track	=> part of 6.3.10
		DTEC 6.3.13 Develop guidance on NAVDAT development considering shore based infrastructure	Draft Recommendation and Guideline for Digital navigational data system (NAVDAT) considering shore based infrastructure.	New Recommendation and Guideline	DTEC*	DTEC*-6.3.1 3	Not started	
		DTEC 6.3.2 Develop guidance on Digital VHF communication	Develop a guideline for migrating current analogue VHF voice communications to digital VHF voice communications.	New Guideline	DTEC* VTS	DTEC*-6.3.2 VTS-2.8.7	Not started	
		ARM 6.3.2 Recommendation for the AIS Service		New R126 summarising underlying GuidelinesNew Guideline(s) containing valid information regarding the establishment of AIS as an AtoN	ARM* DTEC	ARM-6.3.2 DTEC*-6.3.1 1	On track	
		ENG 6.3.2 Harmonised IoT Protocol for Visual AtoN			ENG*	ENG-6.3.2	On track	
		ARM 6.3.3 Review of the contents of A-124 series recommendations			ARM* DTEC	ARM-6.3.3 DTEC*-6.3.1 2	On track	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		DTEC 6.3.4 Develop Guidelines on VDES Authentication Techniques	Describe potential methods for authenticating VDES transmissions, including VDES R-Mode signals. Provide basis for the development of an international standard for VDES authentication, so that all mariners can have trust in e-navigation communications and future resilient positioning, navigation and timing solutions based on VDES.	New Guideline	DTEC*	DTEC*-6.3.4	On track	
		ARM 6.3.4 Define user requirements for Maritime Connectivity, Maritime Internet of Things (IoT), and MRN addressing (may be three subtasks)	Revised Guideline G1143 to include aspects relevant to MRN	Revised Guideline G1143 to include aspects relevant to MRN	ARM*	ARM*-6.3.4	On track	
		DTEC 6.3.5 Develop Guidelines on VDES resource sharing and coordination/cooperation	Develop a guideline that provides framework of VDES resource sharing and coordination / cooperation for VDES satellites providers, VDES land-stations and VDES users to realize smooth and effective VDES communications on both official and private communications.	New Guideline	DTEC*	DTEC*-6.3.5	On track	
		DTEC 6.3.6 Maintain existing IALA Standards, Recommendations and Guidelines regarding the VHF Data Exchange System (VDES)	Update to the latest development of AIS	Revised R1007	DTEC*	DTEC*-6.3.6	Finished	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		DTEC 6.3.7 Liaise with ITU, IEC and IMO on VDES Topics	LN to ITU WP5B in regards with the Recommendation ITU-R.M 2092-1: Consider future development of VDES.LN to IEC and IMO on VDES topics.	Liaison notes	DTEC*	DTEC*-6.3.7	On track	
		DTEC 6.3.8 Liaise with IEC on the Test standard for VDES	Test standard for VDES: Contribute to the development of VDES test standard	Liaison note and input document	DTEC*	DTEC*-6.3.8	On track	
		DTEC 6.3.9 Develop guidance on documentation on communications channels for public service digital information services in coastal areas	Develop documentation 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	New Recommendation or Guideline	DTEC*	DTEC*-6.3.9	Not started	WG2?
S1070 Information Services	S1070.1 Data models and data encoding	VTs 1.8.6 Harmonization of VTs data elements (internal and external integration)	Review and harmonize data elements within IALA as well as with IMO and IHO etc		VTs*	VTs*-1.8.6	Finished	
		VTs 2.8.1 Develop a Product Specification S-212 for VTs on digital information	Develop a Product Specification S-212 under the S-100 framework for VTs	New Product specification	VTs*	VTs*-2.8.1 VTs-6.3.2 VTs-2.5.2.c	On track	
		VTs 2.8.2 Review and update Recommendation R0145 on the IVEF service	Review and update Recommendation R0145 (V-145) on the Inter-VTS Exchange Format (IVEF) Service (Output to be a revised Recommendation and associated Guideline including a technical service and/or product specification S-210)	A VTs product specification	VTs*	VTs*-2.8.2	On track	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		DTEC 7.1.1 Develop a discussion paper on digitalisation in the scope of IALA	Development of a vision for digitalization of shipping and maritime transportation - Document sketching the IALA vision on digitalization of waterways and shipping	Discussion paper	DTEC*	DTEC*-7.1.1	On track	
		ARM 7.1.1 Develop guidance on Digital Fairway		New IALA guideline on implementing the development and implementation of digital fairways.	ARM* DTEC	ARM-7.1.1 DTEC*-7.1.2	Not started	
		ENG 7.1.1 S-200 PNT Product Specification	Develop and review of PNT related S-200 product specification	New or modified PNT related product specifications	ENG*	ENG-7.1.1	On track	
		ARM 7.1.10 Monitor the development of S-201 Testbed	Update reports on S-201 testbed	Input paper on the monitoring results of S-201 testbed	ARM*	ARM*-7.1.10	On track	
		ARM 7.1.11 Develop, implement and execute procedures for IALA to add, maintain and harmonize items to the IHO S-100 feature concept dictionary(FCD).	Guidance on the procedures to add definitions to the FCD. Coordination of harmonization of IALA definitions. Guidance and templates for add features and definition to the FCD.	New and/or revised guideline	ARM*	ARM*-7.1.11	On track	
		ARM 7.1.12 Create S-200 Implementation Plan, following similar S-100 Implementation Strategy and/or Roadmap		S-200 Implementation Strategy Document	ARM*	ARM*-7.1.12	On track	No work was done at ARM20

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		ARM 7.1.15 Review Guideline G1159 on ship reporting from the shore side perspective	Guideline for Coastal States on implementation of MSW	Revised Guideline	ARM*	ARM*-7.1.15	Finished	The working group deemed no work was necessary on the revision of this guideline and regards this task as finished.
		DTEC 7.1.15 Consider the Development of Product Specification for Disaster Management	The goal of this task is to develop an operational concept for information services and the use of digital information for disaster management from an authorities' perspective (including VTS). This might include the development of a new S-200 Product Specification for disaster management.	1. Operational Concept (including context and alignment with existing services and data models 2. If necessary, a new S-200 product specification on disaster management.	DTEC*	DTEC-7.1.15	On track	
		ARM 7.1.2 Contribute to the standardization efforts with respect of the requirements of the S-100 domain experts	Support and contribute to international standardization efforts (IMO, IHO, WMO, etc.)	Contribution to other International organisations	ARM* DTEC	ARM*-7.1.2 DTEC-7.2.1	On track	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		DTEC 7.1.2 Develop guidance on Digital Waterway	Develop guidance for IALA members on the digitalization of waterways.	New IALA guideline on developments of digitalisation of waterways.	DTEC* ARM	DTEC*-7.1.2 ARM-7.1.1	Not started	
		ENG 7.1.2 Develop S-200 product specification PNT Station almanac	Development of S-200 product specification on PNT Station almanac		ENG*	ENG-7.1.2	Not started	
		ARM 7.1.3 New Guideline on Operational considerations for S-200 (S-201 AtoN information and S-230 Application Specific Messages)	Guideline on Operational considerations for S-200	Revised guideline	ARM*	ARM*-7.1.3	On track	
		DTEC 7.1.3 Review G1114 A Technical Specification for the Common Shore-based System Architecture (CSS A)	Consider developing a System Architecture Concept for Digitalized Waterways and Maritime Transformation: Architecture Pattern, Architecture Overview, Architecture Details / Platforms / Services	Revised Guideline	DTEC*	DTEC*-7.1.3	Not started	
		ENG 7.1.3 Develop S-200 product specification PNT grid data	Development of S-200 product specification on PNT grid data		ENG*	ENG-7.1.3	Not started	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		ARM 7.1.4 Continue development on S-201, specifically on Maintenance, data validation, and harmonization with S-125, S-124, and S-101	Review and revise S-201 as needed, publishing edition 2.0 and continuing development throughout the work plan	Product specification	ARM*	ARM*-7.1.4	On track	Work was completed at ARM20. S-201 and accompanying files will be up for review by the IALA members until mid May before it will be send to Council for approval..
		DTEC 7.1.4 Consider developing a Recommendation for digital platforms	Recommendation on platforms to be used for implementation of the proposed Architecture (G1114 Update): Definition of the architecture based on Updated G1114, Description of platform elements	New Recommendation	DTEC*	DTEC*-7.1.4	Finished	
		ARM 7.1.5 Coordinate with IHO on implementation of IALA PS into S-98	Ref. IALA/IHO Workshop Support IHO S-100 Implementation documents with consideration of IALA's remit within S-100.	New or Revised Guideline in support of S-100 Implementation Plan	ARM*	ARM*-7.1.5	Not started	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		ARM 7.1.6 Continue development on S-125 in coordination with IHO NIPWG	Draft Product Specification for S-125 to be delivered to IHO, (Ref workshop - develop S-125 as a suitable replacement for the List of Lights and Fog Signals. S-125 should be tested at the earliest opportunity utilizing the services of the IHO Singapore lab that have been offered for this purpose. Review and revise S-125 as needed, publishing edition 1.0 and continuing development throughout the work plan	S-125 PS	ARM*	ARM*-7.1.6	On track	
		DTEC 7.1.6 Development of MCP-related IALA documents	Will continue the work with documents on Maritime Service Registry (MSR) and Decentralised Trust System (DTS) that were already submitted to DTEC.		DTEC*	DTEC-7.1.6	On track	
		ARM 7.1.7 Continue development on MRN documentation, considering inputs from IALA Secretariat, other committees, or others as needed		Revised Guideline	ARM*	ARM-7.1.7	On track	Intersessional work will be planned for this task. As requested by the other committees.
		ARM 7.1.8 Review Guideline G1106 on producing an IALA S-200 series Product Specification	Reference the report of the first IALA/IHO Workshop in 2022. To update the existing guideline G1106	Revised Guideline	ARM*	ARM*-7.1.8	On track	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		ARM 7.1.9 Coordinate Committee support and submissions for IALA representation at IHO working groups in cooperation with Secretariat (HSSC, S-100WG, NIPWG)	IHO coordination including IALA submission to HSSC on the requirement to amend S-101 AtoN portrayal.		ARM*	ARM*-7.1.9	On track	
		DTEC 7.2.1 Contribute to the standardization efforts with respect of the requirements of the S-100 domain experts	Support and contribute to international standardization efforts (IMO, IHO, WMO, etc.)		DTEC* ARM	DTEC-7.2.1 ARM*-7.1.2	On track	
	S1070.2 Data exchange systems	ARM 7.1.14 Development of technical service specifications for the provision of AtoN information		A number of technical service specifications - ready for implementation by solution providers	ARM*	ARM*-7.1.14	On track	
		DTEC 7.1.14 Defining IALAs Role in MCP Trust Infrastructure	This task aims to explore and define IALA's potential role in the certification framework for Maritime Connectivity Platform (MCP) operational instances, including acting as a certification list holder. The task will consider governance, technical, and procedural aspects to support trust and interoperability within the MCP ecosystem.	Revised R1183 and new guideline associated System for trusted list of approved Certificate Authorities (CAs)	DTEC*	DTEC-7.1.14	Not started	
		DTEC 7.1.5 Review G1128 Specification of e-Navigation technical services	Revise the Guideline from basic concepts and guideline for developers on technical services adjusted to the digital platform concepts. Reference G1155.	Review G1128	DTEC*	DTEC*-7.1.5	Finished	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
	S1070.3 Terminology, symbology and portrayal	VTS 2.8.8 Develop guidance on the symbology and portrayal of AtoN for charting			VTS* ARM	VTS-2.8.8 ARM*-7.1.13	Not started	
		ARM 7.1.13 Develop guidance on the symbology and portrayal of AtoN for charting	refer to the 2024 Workshop discussion.		ARM* VTS	ARM*-7.1.13 VTS-2.8.8	On track	
No Standards	No Standards	ARM 1.2.10 Update IALA Dictionary	Continuously update the IALA Dictionary by incorporating revisions and contributions from other working groups.	IALA Dictionary	ARM*	ARM-1.2.10	On track	
		VTS 1.9.1 Consider relevant VTS documents to be revised /updated	Revise and update VTS recommendations, guidelines, and model coursesConsider updating G1111-1 to include guidance on VTS Management Information Systems	Revised VTS documents	VTS*	VTS-1.9.1 VTS-2.9.1 VTS-3.9.1	On track	
		VTS 1.9.2 Continuous update of the VTS Manual	Update and publish the VTS Manual following each IALA Council meeting to ensure an updated electronic version is always available.	Continuous update of the VTS Manual	VTS*	VTS*-1.9.2	On track	
		VTS 1.9.3 Review the VTS questionnaire and conduct a digital global survey	Revise the questions on VTS to be aligned with the new IMO resolution and conduct global VTS surveys whenever needed.	Input to VTS tasks and guidelines	VTS*	VTS*-1.9.3	On track	
		VTS 1.9.4 Proceed with the "living document" on "Future VTS", including emerging technologies and Human Element	Continue discussion on Future VTS, including emerging technologies and Human Element to provide information to assist with future work programme tasks and of emerging trends and technologies that will impact on VTS	Input to VTS tasks and guidelines	VTS*	VTS*-1.9.4	On track	

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Standard	Topic Area	Task	Description	Expected outcome	Committee (*leading)	Committee Work Item No	Status	Remarks
		VTS 2.9.1 Consider relevant VTS documents to be revised /updated	Revise and update VTS recommendations, guidelines, and model courses	Revised VTS documents	VTS*	VTS-2.9.1 VTS-1.9.1 VTS-3.9.1	On track	
		VTS 3.9.1 Consider relevant VTS documents to be revised /updated	Revise and update VTS recommendations, guidelines, and model courses	Revised VTS documents	VTS*	VTS-3.9.1 VTS-2.9.1 VTS-1.9.1	On track	
		ENG 8.1.1 PNT technology review	Monitor other developments in radionavigation topics for information exchange and development of appropriate guidance (inc. resilient PNT, cyber security, timing aspects etc). Rapporteur reports and new documents as required.	Reports - new tasks	ENG*	ENG-8.1.1	On track	