



IALA Technical Committee Structure, 2014-2018

Technical Committee #1 – AtoN Requirements and Management (ARM)	
Technical Domain	Work description
TD#1 – Requirements for AtoN systems	
	Requirements for the use of Maritime Buoyage Scheme and other AtoN including AIS , radar, etc. for marking, natural or man-made hazards, giving position information and safe routes to protect safety of life and the environment, including:- Traffic signals, Leading lights and marks, Wreck marking, AtoN for special craft, Use of AIS and Radar AtoN,
	Use of Virtual AtoN
	Data populating for S-100
TD#2 – Management of AtoN services	
	Levels of service and Record keeping
	Availability and reliability criteria
	Quality management of Aton services
	Contracting
	Management for environmental protection
TD#3 – Marine Spatial Planning	
	AtoN and VTS in Marine Spatial Planning
	Design of AtoN systems for channels and restricted waterways
	Use of simulation
	Risk management and risk analysis tools – use, and legal aspects
TD#4 – International coordination and liaison	
	Monitor the work by all Committees on interaction with IMO and other IGOs
	Co-ordinate the revision of IALA products to suit international instruments and national legislation

Technical Committee #2 – e-Navigation (ENAV)	
Technical Domain	Work description
TD#1 – Data modelling and message systems	
	AtoN data information structure, exchange, presentation
	S-100 registry and Product Specifications
	S-100 registry – coordination of work by all Committees
	Message structure for e-Navigation including VDES
TD#2 – e-Navigation communications	
	VDES, satellite, WRCP
	AIS technology
	ASM coordination and web hosting
	ITU planning and liaison, WRC preparation and national coordination
TD#3 – Shore technical infrastructure	
	Resilient PNT shore services - DGPS, e-Loran, other
	Virtual AtoN technology
	Sharing of shore data
TD#4 – e-Navigation test beds	
	Data gathering and analysis
	Participation in and harmonisation of results of test beds
	Harmonisation policy and planning
	Monitoring of developments nationally and regionally, and effect on competent authorities
TD#5 – Maritime Service Portfolios	
	Maritime Service Portfolios, design, content, and implementation

Technical Committee #3 – AtoN Engineering and Sustainability (ENG)	
Technical Domain	Work description
TD#1 – Light and vision physics	
	<p>Visual perception</p> <p>Conspicuity and the effectiveness of visual signalling</p> <p>Background lighting effects and mitigation</p> <p>Colours in visual signalling</p> <p>Range and performance of visual AtoN</p>
TD#2 – AtoN design and maintenance	
	<p>Buoy and beacon engineering and performance, including power systems, harmonising and interfacing of equipment and systems, and remote monitoring and control</p> <p>Maintenance strategy and techniques</p> <p>Extreme environment AtoN engineering</p> <p>Safety of personnel</p>
	Data populating for S-100
TD#3 – Global capacity building and training	
	Standards for training and certification of AtoN personnel
	Support for the WWA, including developing and coordinating model courses for AtoN and e-Navigation
TD#4 – Civil engineering and environment	
	Maintenance of AtoN structures
	Protection of the marine environment
	Supervision of the Heritage Forum

Complementary Forum

Heritage Forum	
Technical Domain	Work description
TD#1 – Preservation of structures and artefacts	
	Selection and display of artefacts
	Maintenance and repair of heritage structures
TD#2 – Ownership, public access	
	Complementary use of historic structures
	Management of surplus property
	Branding and promotion

Technical Committee #4 – Vessel Traffic Services (VTS)	
Technical Domain	Work description
TD#1 – Operations	
	VTS operations, service standards, and performance measures
	Inter-VTS operations, interactions with allied and other services
	VTS communications
	Monitoring and evaluating developments in VTS and potential impacts on the recognised framework for VTS
TD#2 – Technology	
	VTS systems technology, Sensors, Presentation
	VTS equipment standards and performance requirements
	Inter-VTS data exchange
	Data populating for S-100
TD#3 – VTS training	
	Qualification, training, and certification of VTS personnel
	Accreditation and approval process for VTS training
	Human factors
	VTS training for navigating officers
	Support for the WWA