

4. ANNEX 1

Committee Structure as submitted to, and agreed by, Council at its 65th session in December 2017.

Committee	Work Domains (from Standards structure)
AtoN Requirements and Management (ARM)	
AtoN Planning and Service Requirements	Obligations and regulatory compliance
	Risk Management
	Levels of service objectives
	Quality management
	AtoN Planning
	Virtual marking
Information Services	Management of Maritime Service Portfolios and S-200 (from Data models and data encoding)
	Terminology, symbology, and portrayal
Training and Certification	Training and Certification
Capacity building	
AtoN Engineering and Sustainability (ENG)	
AtoN Design and Delivery	Visual signalling
	Range and performance
	Design, Implementation & Maintenance
	Power systems
	Floating AtoN
	Environment, Sustainability & Legacy
Radionavigation Services	Satellite positioning and timing
	Terrestrial positioning and timing (including eLoran, eChayka, R-mode)
	Racon & radar positioning
	Augmentation services (DGNSS)
Training and Certification	Training and Certification
Heritage Forum	Activate and manage Heritage Forum as necessary
e-Navigation Information Services and Communications (ENAV)	
Digital Communications Technologies	Wide/Medium bandwidth systems (AIS & VDES)
	Narrow bandwidth systems (NAVDAT, MF beacons, etc.)
	Harmonised maritime connectivity
Information Services	Data models and data encoding (IVEF, S-100, S-200, ASM, etc.)
	Vessel tracking and data exchange systems
	e-Navigation user requirements
Training and Certification	Training and Certification
Vessel Traffic Services (VTS)	
Vessel Traffic Services	VTS implementation
	VTS operations
	VTS data and information management
	VTS communications
	VTS technologies
	VTS Auditing and assessing
	VTS additional services
Training and Certification	Training and certification

5. ANNEX 2

Draft amplification of the Committee structure. Proposal by Secretariat.

Committee	Work Domains (from Standards structure)	Amplification points – only as necessary
AtoN Requirements and Management (ARM)		
AtoN Planning and Service Requirements	Obligations and regulatory compliance	
	Risk Management	<ul style="list-style-type: none"> • Maritime data sharing for risk assessment <ul style="list-style-type: none"> ○ IALA NET
	Levels of service objectives	
	Quality management	
	AtoN Planning	
	Virtual marking	<ul style="list-style-type: none"> • Operational aspects of Virtual marking <ul style="list-style-type: none"> ○ ENAV to advise on connectivity
Information Services	Management of Maritime Service Portfolios and S-200 (from Data models and data encoding)	<ul style="list-style-type: none"> • Operational considerations for S-200 <ul style="list-style-type: none"> ○ S-201 AtoN information ○ S-230 Application Specific Messages • Coordination with IHO for S-100, S-200, and MRN management <ul style="list-style-type: none"> ○ S-100/S-200 message coordination <ul style="list-style-type: none"> ▪ S-201 & S-125 etc. ○ S-200 information content, except S-211 • Coordination with IHO, WMO, etc. on complete S-100 series <ul style="list-style-type: none"> ○ Including adding MRN header to S-100 to increase S-numbers available • Digital Maritime Services <ul style="list-style-type: none"> ○ Structure and content of Maritime Services ○ IMO Coordinating Organisation matters <ul style="list-style-type: none"> ▪ With advice from VTS as necessary • Development of S-201 Testbed • Other s-200

		<ul style="list-style-type: none"> ○ Envisage the scope of S-200 ● Organizing a S-100/200 workshop in cooperation with IHO <ul style="list-style-type: none"> ○ Date, place, and scope ● IALA representation at IHO working groups in coordination with Secretariat <ul style="list-style-type: none"> ○ HSSC, S-100WG, NIPWG
	Terminology, symbology, and portrayal	● Coordination with IHO on portrayal and symbology
Training and Certification	Training and Certification	
Capacity building		

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Committee	Work Domains (from Standards structure)	Amplification points – only as necessary
AtoN Engineering and Sustainability (ENG)		
AtoN Design and Delivery	Visual signalling	
	Range and performance	
	Design, Implementation & Maintenance	
	Power systems	
	Floating AtoN	
	Environment, Sustainability & Legacy	
Radionavigation Services	Satellite positioning and timing	
	Terrestrial positioning and timing (including eLoran, eChayka, R-mode)	<ul style="list-style-type: none"> • S-245 eLoran ASF Data • S-246 eLoran Station Almanac • S-247 Differential eLoran Reference Station Almanac
	Racon & radar positioning	
	Augmentation services (DGNSS)	<ul style="list-style-type: none"> • S-240 DGNSS Station Almanac
Training and Certification	Training and Certification	
Heritage Forum	Activate and manage Heritage Forum as necessary	

Committee	Work Domains (from Standards structure)	Amplification points – only as necessary
e-Navigation Information Services and Communications (ENAV)		
Digital Communications Technologies	Wide/Medium bandwidth systems (AIS & VDES)	<ul style="list-style-type: none"> • Coordination with ITU and IMO • Technical aspects of AMRD in cooperation with ARM • Studies to ensure awareness of existing and future connectivity options
	Narrow bandwidth systems (NAVDAT, MF beacons, etc.)	
	Harmonised maritime connectivity	
Information Services	Data models and data encoding (IVEF, S-100, S-200, ASM, etc.)	<ul style="list-style-type: none"> • Modelling and encoding for S-200 • Modelling and management of MRN
	Vessel tracking and data exchange systems	<ul style="list-style-type: none"> • Operational and technical aspects of vessel tracking <ul style="list-style-type: none"> ○ Excludes reporting and single window
	e-Navigation user requirements	<ul style="list-style-type: none"> • <i>Suggest delete.</i> <ul style="list-style-type: none"> ○ <i>Already covered by IMO SIP, and if retained is probably better in ARM</i>
Training and Certification	Training and Certification	

Committee	Work Domains (from Standards structure)	Amplification points – only as necessary
Vessel Traffic Services (VTS)		
Vessel Traffic Services	VTS implementation	
	VTS operations	
	VTS data and information management	<ul style="list-style-type: none"> • S-210 Inter VTS exchange format (IVEF) <ul style="list-style-type: none"> ○ Developing a guideline ○ Following IHO's adoption on Data streaming function • Operational aspects of S-211 Port Call message and its further development <ul style="list-style-type: none"> ○ With advice from sister Organisations • Operational aspects of VTS digital Maritime Services <ul style="list-style-type: none"> ○ Including Sea Traffic Management options ○ In consultation with ARM • Vessel reporting <ul style="list-style-type: none"> ○ Excluding single window and Port CDM
	VTS communications	<ul style="list-style-type: none"> • Including transition to digital information flow and "silent VTS"
	VTS technologies	
	VTS Auditing and assessing	
	VTS additional services	
Training and Certification	Training and certification	