

IALA COUNCIL 65th session



12-15 December 2017
IALA Headquarters

11 – IALA TECHNICAL ACTIVITIES

11.4 - ENAV

11.4.1 - Summary report of the 21st session of the ENAV Committee

Note by the Secretariat

1. REPORT OF THE 21ST SESSION OF THE IALA E-NAVIGATION (ENAV) COMMITTEE (ENAV21)

The 21st meeting of the ENAV Committee (ENAV21) was held in IALA Headquarters from 18th to 22nd September 2017.

137 people from 27 countries and 7 sister organisations, attended the 21st session of the ENAV Committee, of which 36 participants were new and 5 were observers.

2. WORK CARRIED OUT

Working in five working groups, the Committee considered 133 input papers including presentations and produced 26 output papers and 5 working papers.

3. KEY OUTCOMES FROM THE SESSION INCLUDE:

The Committee noted that various members present would be engaged with the IMO-IHO Harmonisation Group for Data Modelling (HDGM) in relation to IALA work on MSPs and data modelling.

A new draft Guideline on Systems and Services for High-accuracy Positioning and Ranging Service was prepared.

A new draft Guideline on the Transmission of SBAS Corrections using MF Radiobeacons and AIS was prepared.

A new draft Guideline on the Specification of e-Navigation Technical Services was prepared.

A revision of Guideline 1117 on VDES overview was completed.

The Maritime Radio Communications Plan (MRCP) was revised.

A major revision of Chapter 4 of the NAVGUIDE dealing with e-navigation was completed.

Work progressed on the development of a draft Guideline on MSPs and requests for input from other organisations were drafted.

Submissions to the ITU WP 5B regarding VDE-SAT and AIS were prepared.

The e-navigation and VDES FAQ for the IALA website were reviewed and updated.

A procedure for management of the Maritime Resource Name (MRN) registry was prepared.

4. WORKPLAN

The ENAV Committee work plan for the work period 2014-2018 was updated. A number of tasks could not be completed in this work period and will be submitted for the 2018-2022 work period. The following table shows the status of the work programme at the end of the 2014-2018 work period.



Task		Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
TD#1 – Data modelling and message systems								
1.1.1.	Review and update NAVGUIDE Chapter 4, section 4.5.2 -4.5.5	18		21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
1.1.4.	Review and update NAVGUIDE Chapter4, section 4.5.1	18			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
1.1.5.	Review and update NAVGUIDE Chapter 4, section 4.8 – 4.9	18			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
1.2.1.	Develop Product Specification on AtoN Information	15	17	21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Move to 2018-2022
1.3.1.	Revise Guideline 1106	15	16	17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
1.3.2.	S-100 Service Orientation	16	17	21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
1.4.1	Develop VDES Message Structures	18	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
1.4.2	Assist in the Development of Message Structures for e-Nav	18	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
TD#2 - e-Navigation communications								
2.1.1	Update the Marine Radio Communication Plan	20	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
2.1.2	Develop Recommendation on VDES	15	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
2.1.3	Organise a Workshop on VHF Data Exchange System	17	17		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
2.2.1	Update IALA Recommendations and Guidelines for AIS and VDES	15	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
2.3.1	Manage Application Specific Message (ASM) catalogue	20	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
2.4.2.	Develop a timeline for submission of VDES documents to ITU with a view to seeking delegated authority to submit from Council	21	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
TD#3 - Shore technical infrastructure								
3.1.1.	eLoran Guideline	15	18	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.10.	DGNSS Coverage prediction	17	18	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.11.	Updates on PNT developments	15	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete



Task	Start	Planned	Revised	Progress Indicator			Status
3.1.12. RTCM/ITU liaison re M823	18	18		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
3.1.13. IMO Liaison	15	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.14. WG5 Document maintenance	15	21		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Work to continue in 2018-2022.
3.1.15. Liaison with related bodies	15	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.16. R-mode Guideline	18	20	21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Work to continue in 2018-2022.
3.1.2. PNT Product Specification	15	17	21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Continue in 2018-2022.
3.1.3. PNT services & Systems	16	18	21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Continue in 2018-2022.
3.1.4. High accuracy systems	18	20	21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.5. Use of SBAS	17	19	21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.6. Techniques used for on-board PNT data processing	18	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
3.1.7. Update R-121	15	16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.8. DGNSS Radiobeacon coverage prediction	17	20		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.1.9. R-121 update	15	16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
3.2.1. Liaise with ARM regarding Virtual AtoN	17	17		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
TD#4 - e-Navigation test beds							
4.1.1 Gather and present information testbeds (including results) globally	15	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.1.2 Maintain a global repository for test-bed results.	15	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.1.3 Encourage testbed project managers to provide information and results to IALA for posting at www.e-Navigation.net .	After 15	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.1.4 Update IALA Guideline 1107 on the reporting of results of e-Navigation testbeds and include guidance on the planning of testbeds.	17	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Completed ENAV18



Task		Start	Planned	Revised	Progress Indicator			Status
4.2.1	Evaluate / analyse testbed outcomes (lessons learnt) and provide guidance.	15	ongoing		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.3.1	Assist the IALA membership to shape, at a high level, the scope of their testbeds.	15	ongoing		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.3.2	Coordinate an IALA Seminar on e-Navigation testbed results in 2016/17	16	19		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Completed ENAV17
4.3.3.	e-Navigation Risk Assessment	16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Task Completed
4.3.4	Develop and maintain e-Navigation Roadmap	17	20		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Completed at ENAV19
4.4.1	Develop and progress an online discussion forum on testbeds	15	16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Task removed ENAV16
4.4.2	Maintain fora to discuss testbed-related issues	15	16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Task removed ENAV19
4.5.1	Liaise with IMO on e-Navigation implementation and related regulatory matters	15	ongoing		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.5.2	Monitor and analyse the execution of relevant tasks, in particular those in the IMO e-Navigation strategy implementation plan.	15	Ongoing		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.5.3	Provide implementation guidance on developments in the e-Navigation domain, in cooperation with other IGO/NGOs	15	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.5.4	Provide guidance and support to the decision-making process related to the implementation of e-Navigation.	15	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV15
4.5.5	Support IMO with the future development and implementation of e-Navigation and contribute to related tasks	17	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not due
4.5.6	Monitor ship board developments in order to provide appropriate e-Navigation services	16	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ENAV16
4.5.7	Inform IALA's Legal Advisory Panel (LAP) of any apparent legal implications of emerging implementation issues	16	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On-going



Task	Start	Planned	Revised	Progress Indicator			Status
4.6.1 Evaluate developments and identify potential impacts on authorities.	16	On going		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On-going
4.6.2 Provide guidance on the implementation of MSPs and associated infrastructure to the IALA membership.	19	20		<input checked="" type="checkbox"/>			On-going
TD#5 - Maritime Service Portfolios							
5.1.1 Develop Guideline/ Recommendation on Maritime Service Portfolios	18	21		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To be completed in 2018-22 work period
5.1.10 MSP9 Telemedical Maritime Assistance Service / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.11 MSP10 Maritime Assistance Service (MAS) / Operational User Needs	16	17	21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.12 MSP11 Nautical Chart Service / Operational User Needs	16	16	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.13 MSP12 Nautical Publications Service / Operational User Needs	16	16	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.14 MSP13 Ice Navigation Service / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.15 MSP14 Meteorological Information Service / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.16 MSP15 Real Time Hydrographic and Environmental Information Services / Operational User Needs	16	16	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.17 MSP16 Search and Rescue (SAR) Service / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.18. CSSA draft documentation	15	21		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Task completed
5.1.18. Develop Recommendation on Common Shore based System Architecture	19	20		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
5.1.19 e-Navigation infrastructure and governance	15	20	21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Task Completed
5.1.19. Advice IALA on appropriate ways forward in contributing to establishing an internationally agreed e-navigation infrastructure and its governance	15	19		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete



Task		Start	Planned	Revised	Progress Indicator			Status
5.1.2	MSP1 VTS Information Service (IS) / Operational User Needs	16	16	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deferred to VTS Ctte
5.1.20	Organise a Workshop on Shore Based Maritime Services	16	19		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complete
5.1.3	MSP2 Navigational Assistance Service (NAS) / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.4	MSP3 Traffic Organisation Service (TOS) / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.5	MSP4 Local Port Service (LPS) / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.6	MSP5 Maritime Safety Information (MSI) Service / Operational User Needs	15	17	21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.7	MSP6 Pilotage Service / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.8	MSP7 Tugs Service / Operational User Needs	16	17	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn
5.1.9	MSP8 Vessel Shore Reporting / Operational User Needs	16	17	21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Withdrawn

5. THE COUNCIL IS REQUESTED TO

The Council is requested to note the successful completion of ENAV21.