



Report on IALA's contribution to EfficienSea 2

Nick Ward, IALA Project Manager for EfficienSea 13 March 2017



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About EfficienSea 2

- EU H2020 funded €11m
- DMA led, 32 partners - incl. IALA
- to enhance safety of navigation and increase efficiency at sea
- e-navigation services
- Maritime Cloud
- Comms incl. VDES



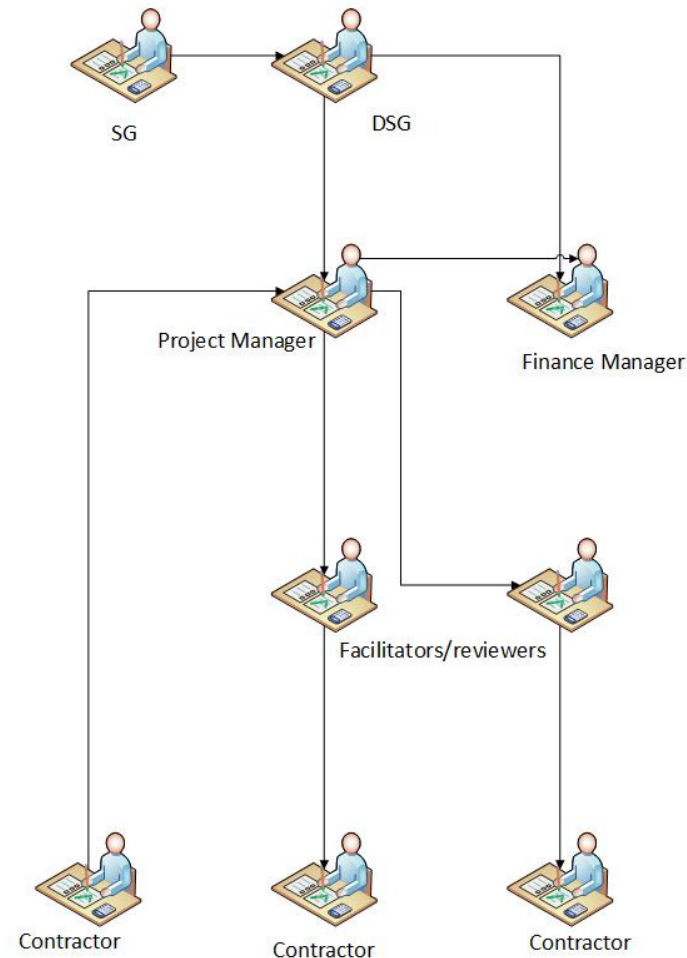
Status report

1. IALA leads Task 1.2 (Project/Test Bed Liaison) with CIRM, DMA & OFFIS
2. IALA leads Task 1.3 (Standardization) with CIRM and UKHO.
3. IALA also contributes to WP 2 (Communications - VDES) and WP 3 (Maritime Cloud).
4. Core work in Tasks 1.2 and 1.3 completed. Deliverables D1.4 and D1.5 accepted. Information on websites
5. Completed Work Plan for the second year of the Project, progressing work on VDES and Maritime Cloud
6. Work Plan for the third year is now being carried out.

Way of working

1. Consultants developing documentation for VDES and the Maritime Cloud
2. Technical development of VDES channel model
3. Close cooperation with IALA ENAV WGs
4. Documents produced as E2 deliverables
5. Will become IALA recommendations/guidelines
6. Providing continuity beyond the E2 project.

IALA E2 Virtual Team

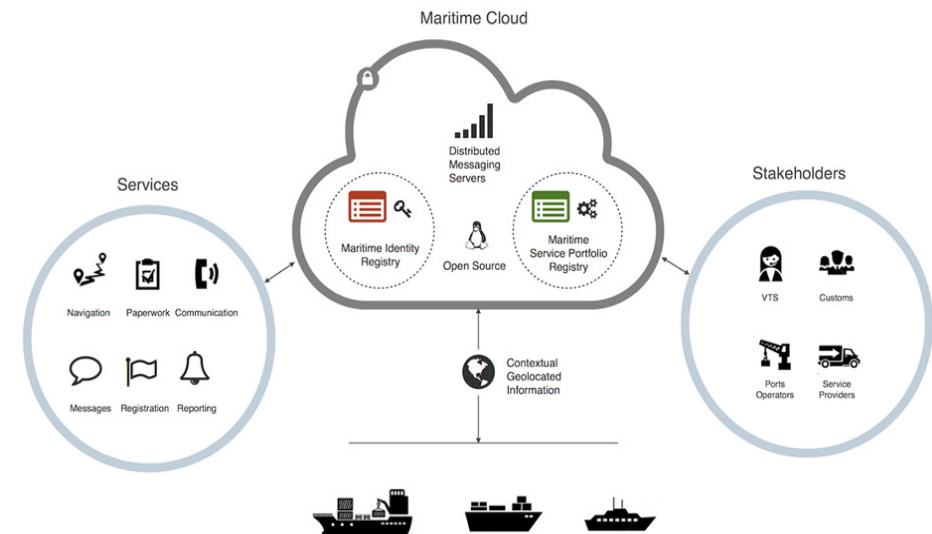


Informing stakeholders

1. Information plan on VDES
 - important in the lead up to WRC 2019
2. Information plan to raise awareness of Maritime Cloud
 - especially for IMO MSC
3. Coordinated with overall E2 Communications Strategy
4. IALA website
 - test bed information updated
 - information for new standards pages
 - links to other websites (IMO, ITU, IHO, E2)

Maritime Cloud Workshop proposal, Nov 2017

- Workshop will focus on implementation:
 - Purpose, user needs
 - Business model
 - Governance options
 - Technical standards
- International seminar to encourage adoption of MC, demonstrations (March 2018?)



Deliverables for 2017-18

Deliverable	Description	Input to ENAV
Draft D 1.10	Strategy for Future Digital Communications	ENAV 20
Draft D 1.11	Report on Future Digital Communications	ENAV 20
Draft D 1.12	Structure of IALA Documentation on AIS & VDES	ENAV 20
Draft D 1.13	Technical Overview of VDES	ENAV 20 & 21
Draft D 1.14	Draft IEC Specification for VDES	ENAV 20
Draft D 1.15	Draft text on VDES for IALA Navguide	ENAV 20
Draft D 1.16	Implementation, Validation and Demonstration of VDES Compatibility Test Bed	ENAV 21
Draft D 1.17	Review of VDES Test Results, New Test Plan and Revised Channel Model	ENAV20 & 21
Draft D 1.18	Updated website content on Standards and Test Beds	ENAV 20 & 21
Draft D 1.19	Presentation on Maritime Cloud	ENAV 21
Draft D 1.20	Standardization Plan for Maritime Cloud	Post ENAV 21
Draft D 1.21	Report of IALA Workshop on Maritime Cloud	Post ENAV 21
Draft D 1.22	Information Plan for VDES	ENAV 20
Draft D 1.23	Presentation on VDES	ENAV 20

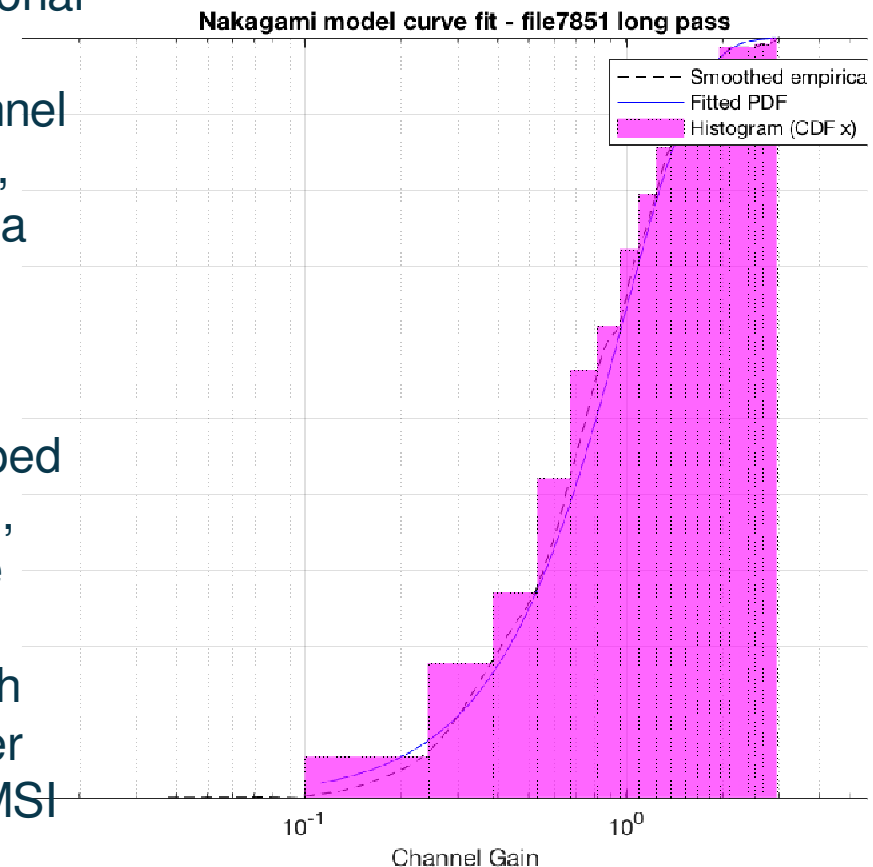
VDES Channel Model

Progress report given on the channel model at IALA ENAV WG3 inter-sessional

Work to date: review of previous channel sounding campaign by GLA R&RNAV, test plans and reports, analysis of data and model calculations.

New work to assess randomness and variability of modelled taps in the tapped delay line model of the channel (TDL), and evaluate channel coherence time

Analysis has started on the exactEarth provided data for satellite signal power versus range/elevation with ship's MMSI and time of message reception.





Questions?

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