



## IALA COUNCIL 63<sup>rd</sup> session



12-16 December 2016  
IALA Headquarters

### 11 – TECHNICAL ACTIVITIES

#### 11.4 – ENAV

##### 11.4.10 – Report on IALA work in EfficienSea2

Note by the Secretariat  
(Nick Ward)

#### 1. SUMMARY

EfficienSea 2 is an EU funded Horizon 2020 Project led by DMA, with 32 partners, including IALA.

IALA leads Task 1.2 (Project/Test Bed Liaison) and Task 1.3 (Standardization) in EfficienSea 2. IALA also contributes to WP 2 (Communications - VDES) and WP 3 (Maritime Cloud).

The core work in Tasks 1.2 and 1.3 has been completed and Deliverables D1.4 and D1.5 accepted. The spread sheets on which the information is recorded are being kept updated and the current versions provided on the E2 website with links from the IALA website.

IALA is carrying out a Work Plan for the second year of the Project, progressing work on VDES and Maritime Cloud standards, as well as developing the website to provide the information generated. A draft Work Plan for the third year is attached to this report.

#### 2. IALA WORK PLAN

##### 2.1. IALA Website

It is important to make sure that the information produced is available to all interested parties. The spreadsheets containing the latest information can be posted on the IALA website, but there needs to be some redesign to make the standards documentation available. In particular, there need to be links to other existing websites that carry e-navigation information. An internal transfer of funds within the IALA E2 budget has been agreed to carry out this work, which is underway.

##### 2.2. Standards development

External contractors have been engaged to develop standards and related documentation on VDES and the Maritime Cloud. These tasks are being carried out in close cooperation with the respective ENAV WGs.

Documents produced will be E2 deliverables but are expected to become part of the IALA suite of technical recommendations and guidelines, to provide continuity beyond the E2 project.

##### 2.3. Raising awareness

An information plan is being prepared for VDES (this will be particularly important in the lead up to WRC 2019) and also for the Maritime Cloud (especially for use at IMO MSC). This will be coordinated with the overall E2 Communications Strategy produced as part of WP1.

A better understanding of the Maritime Cloud needs to be promoted in IMO circles and in other bodies. More presentations will be proposed at IMO, together with demonstrations, as the concept is converted into reality.



Similarly the case for VDES needs to be put to maritime and in particular, radio regulatory organizations. This is essential if problems with frequency allocations for the satellite component are to be overcome.

#### **2.4. Workshops**

IALA contributions to WP3 (Maritime Cloud) are to support the development of system and user requirements. It is planned that IALA in cooperation with Frequentis (leading Tasks 3.1 & 3.2) will organize an international workshop to advance this work. IALA could also take on the organization of a workshop leading to the development of standards for architecture, management and security of the MC and provide demonstrations. This is subject to further discussion with the WP3 lead and the IALA Secretariat.

IALA has time allocated to VDES standards development in WP2 and this could also be supported by a workshop, held at IALA to finalise system technical requirements and demonstrate the compatibility test bed.

#### **2.5. Future Plan**

An itemised plan for IALA E2 work in 2017-18 is attached as an annex to this report. This is subject to further discussion with the E2 Project Team and the IALA Secretariat.

### **3. ACTION REQUESTED OF COUNCIL**

The Council is invited to note this information.



## ANNEX

### Plan for IALA EfficienSea2 Work IN 2017-18

1. Support IALA ENAV in drafting a future digital communications strategy (taking into account the IMO review of GMDSS) using the document produced in the current work plan;
2. Assist IALA ENAV in consolidation of existing IALA documentation relating to AIS with that being introduced for VDES, using the documentation structure developed in the current work plan;
3. Carry out revision of the overview document for VDES developed in the current work plan, as required by ENAV;
4. Continue to support preparation of draft standards for VDES in IEC, based on existing ITU-R and IMO documentation;
5. Implement the Information Plan developed in the current work plan for inter-committee aspects of VDES; finalise input on VDES for IALA Aids to Navigation Guide and IALA VTS Manuals;
6. Assist IALA Members, with draft briefings and presentations, to follow up current approaches in ITU-R, raising the level of understanding of VDES and its significance;
7. Implement, validate and report on VDES compatibility test bed and provide demonstrations;
8. Finalise an information document and presentation on the Maritime Cloud, for use at IMO MSC and other meetings and arrange demonstrations;
9. Support implementation of a plan developed for standardisation of the Maritime Cloud;
10. Provide updated IALA website content on standards and test beds, using information gathered in the E2 databases.