

## IALA COUNCIL 65<sup>th</sup> session



12-15 December 2017  
IALA Headquarters

### 11 – IALA TECHNICAL ACTIVITIES

#### 11.4 – ENAV

#### 11.4.2 – ENAV Committee draft submissions to other Organizations

Note by the Secretariat

#### 1. INTRODUCTION

The following submissions to other Organizations were drafted by the ENAV Committee at its 21<sup>st</sup> meeting for consideration of the Council at its 65<sup>th</sup> session.

#### 2. DRAFT IALA SUBMISSIONS TO OTHER INTERNATIONAL ORGANIZATIONS

##### 2.1. To IMO NCSR 5

##### • C65-11.4.3.1 INF paper to IMO NCSR 5 on Maritime Radio Communication Plan

The MRCP is IALA's view on current, developing and future radio communication systems for the maritime sector, including the VHF Data Exchange System (VDES), the Maritime Connectivity Platform (MCP, formerly called 'Maritime Cloud'), the potential shared use of systems and frequency spectrum with a modernised GMDSS, as well as the communication potential for Maritime Autonomous Systems (Surface) from a shore based perspective.

The draft INF paper to NCSR-5 on Maritime Radio Communication Plan is to inform the fifth session of the IMO Sub-Committee on Navigation, Communications and Search and Rescue (NCSR-5) of the updating of the MRCP to Edition 3.

##### 2.2. To the IHO S-100WG and the IHO NIPWG.

##### • C65-11.4.3.2 (ENAV21-14.1.7) Liaison note to IHO S100WG and NIPWG on S-100 on-line data exchange

The primary goal for IHO S-100 is to support a greater variety of hydrographic-related digital data sources, products and customers. This enables the development of new applications that go beyond the scope of traditional hydrography - for example real time data exchange and online services for acquiring, processing, analysing, accessing and presenting data.

While defining the S-100 product specification for the Inter VTS Exchange Format IALA identified the need for exchanging smaller data entities between systems continuously. Similar needs are detected in discussion of various services as defined in the Maritime Service Specification. This implies data exchange mechanisms additional to file based data exchange. The processes proposed have been negotiated between IHO and IALA.

The liaison note to IHO S100WG and NIPWG on S-100 on-line data exchange, introduces the change proposal documents.

##### • C65-11.4.3.3 (ENAV21-14.1.7.1), Change Proposal S-100, summarises the change proposal in the format prescribed by the IHO. It is an update of the previously submitted change request approved



by the Council at its 62<sup>nd</sup> session and is provided for consideration as an extension to the S-100 Standard to the next IHO S-100 WG meeting in April 2018.

- **C65-11.4.3.4 (ENAV21-14.1.7.2), Proposed Extension to the S-100 Standard Online Data Exchange**, describes the components and processes needed to specify an online exchange of information. It could be a set of data or data which may have a continuous nature. The latter is also known as “streaming data”, wherein the data requires a more dynamic information flow to be available, i.e. beyond that found with the exchange of static datasets mostly handled as files.

### 2.3. To the IEC TC80 WG15

- **C65-11.4.3.5 (ENAV21-14.1.21) Draft Liaison note to IEC regarding VDES specification**

IALA has prepared a proposed baseline and timeline for developing a future IEC test specification that may be used for VDES certification taking into account the possible separation of the testing of ASM and VDE devices and proposes to provide it to IEC TC80 WG15 to facilitate future work item proposals for VDES test standards in. The timeline proposed takes account of anticipated ITU progress on frequency allocation for the VDES.

- **C65-11.4.3.6 (ENAV21-14.2.7) Draft revision of Recommendation ITU-R M.2092-0**

In order to progress development of the VDES, an IEC test specification for VDES equipment is required. IALA is contributing to the development of ITU Recommendation ITU-R M.2092-0 on technical characteristics for a VHF data exchange system in the VHF maritime mobile band. To assist the IEC in planning for a future IEC test specification for VDES equipment, IALA is forwarding the draft recommendation ITU-R M.2092-0 to the IEC along with the timeline in C65-11.4.3.5 to IEC TC80 WG15.

### 2.4. To various Organizations

The ENAV Committee is developing an IALA Guideline on Maritime Service Portfolios: Digitising Maritime Services and seeks the input of the IHO, IMPA, WMO, IMRF and IHMA in relation to this work.

The ENAV Committee considers the contribution and cooperation with these organisations on this draft Guideline as an important step towards a harmonised understanding of MSPs. This will contribute to the process that has to be done by the IMO-IHO Harmonization Group on Data Modelling.

It is proposed to forward the following liaison notes with a copy of the draft IALA Guideline on MS

- **C65-11.4.3.7 (ENAV21-14.1.10) Draft liaison note from IALA to IHO on MSPs;**
- **C65-11.4.3.8 (ENAV21-14.1.11) Draft liaison note from IALA to IMPA on MSPs;**
- **C65-11.4.3.9 (ENAV21-14.1.12) Draft liaison note from IALA to WMO on MSPs;**
- **C65-11.4.3.10 (ENAV21-14.1.13) Draft liaison note from IALA to IMRF on MSPs;**
- **C65-11.4.3.11 (ENAV21-14.1.14) Draft liaison note from IALA to IHMA on MSPs;**
- **C65-11.4.3.12 (ENAV21-14.2.5) Draft IALA Guideline on Maritime Service Portfolios: Digitising Maritime Services (MSPs) (v13).**

## 3. IALA SUBMISSIONS TO OTHER ORGANIZATIONS APPROVED INTER-SESSIONALLY (TO NOTE)

### 3.1. To the ITU (approved by correspondence on 25th October 2017 sent to the ITU within the timeframe for the next meeting of ITU-R WP 5B)

- **C65-11.4.3.13 (ENAV21-14.1.19) Liaison note to ITU-R WP5B for the VDE SAT report**

The VHF Data Exchange System (VDES) is the next generation of the AIS with much improved communications capability to meet the needs of maritime sector stakeholders. In order to develop the VDES, additional working frequencies are required and were considered at the ITU World Radio

Conference in 2015 (WRC-15). Objections to the satellite link element of the VDES at WRC-15 has led to the need for additional work to ensure that the satellite link frequencies are agreed at WRC-19.

IALA has been working with the ITU to develop a working document towards a Preliminary Draft New Report ITU-R M.[VDES-SAT] (PDNR), C65-11.4.3.14.

The liaison note to ITU-R WP5B for the VDE SAT, C65-11.4.3.13, introduces the IALA review of the PDNR at ENAV21 provided in C65-11.4.3.14.

- **C65-11.4.3.14 (ENAV21-14.1.20) PDNR ITU-R M VDES-SAT IALA proposed amendments**

At the WRC-15 ITU-R Resolution 360 was revised and updated to invite the WRC-19 to consider, based on the results of ITU-R studies, modifications of the Radio Regulations, including new spectrum allocations to the maritime mobile-satellite service (MMSS) (Earth-to-space and space-to-Earth), preferably within the frequency bands 156.0125-157.4375 MHz and 160.6125-162.0375 MHz of Appendix 18, to enable a new VDES satellite component, while ensuring that this component will not degrade the current terrestrial VDES components, ASM and AIS operations and not impose any additional constraints on existing services in these and adjacent frequency bands as stated in recognizing d) and e) of ITU-R Resolution 360.

Furthermore, in preparation for WRC-19, ITU-R was invited to conduct, as a matter of urgency, and in time for WRC-19, sharing and compatibility studies between VDES satellite components and incumbent services in the same and adjacent frequency bands specified in recognizing d) and e) of ITU-R Resolution 360 to determine potential regulatory actions, including spectrum allocations to the MMSS (Earth-to-space and space-to-Earth) for VDES applications.

IALA has been working with the ITU to develop a working document towards a Preliminary Draft New Report ITU-R M.[VDES-SAT] (PDNR) as a response from ITU-R to that invitation, and it provides a summary of why a VDES satellite component is needed, spectrum requirements, technical description and the appropriate sharing and compatibility studies. The IALA submission, C65-11.4.3.14, is in the form of proposed amendments shown in track changes.

- **C65-11.4.3.15 (ENAV21-14.1.28) Liaison note to ITU-R WP5B for the Recommendation ITU-R M.1371**

ITU Recommendation ITU-R M.1371-5 (02/2014) provides the technical characteristics of an automatic identification system (AIS) using time division multiple access in the very high frequency (VHF) maritime mobile band.

IALA is contributing to revision of ITU-R M.1371-5.

The liaison note to ITU-R WP5B for the Recommendation ITU-R M.1371, C65-11.4.2.22, introduces the IALA review of the draft ITU-R M.1371-5 at ENAV21 as provided in C65-11.4.3.16. Track changes show proposed amendments.

- **C65-11.4.3.16 (ENAV21-14.1.29) R-REC-M.1371-5-201402-I revised by IALA**

The liaison note to ITU-R WP5B for the Recommendation ITU-R M.1371, C65-11.4.3.5, shows amendments proposed by IALA to the draft ITU-R M.1371-5 at ENAV21. Track changes show proposed amendments as introduced in the liaison note C65-11.4.3.15.



**3.2. To the IMO-IHO Harmonisation Group on Data Modelling (HGDM) (approved by correspondence on 5th October 2017 and sent to the HGDM within the timeframe for the first meeting of the HGDM)**

- **C65-11.4.3.17 (ENAV21-14.1.15) Input to HGDM on recent updates to MSPs**

The ENAV Committee at its 21<sup>st</sup> session progressed the development of the draft Guideline on MSPs and the associated draft Guideline G1128 for the Specification of e-Navigation Technical Services (C65-11.4.2.2).

The Committee produced a liaison note to the IMO-IHO Harmonisation Group on Data Modelling (HGDM). Following approval of the Council by correspondence, the liaison note was submitted to the HGDM on 6<sup>th</sup> October 2017. The liaison note informed the HGDM of progress made on the development of the draft Guideline on MSPs and the draft Guideline G1128 for the Specification of e-Navigation Technical Services (C65-11.4.2.2).

**4. THE CONCIL IS INVITED TO**

- Approve the draft submissions to other Organizations listed in section 2. above;
- Note the inter-sessional approval of submissions listed in 3. above.