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| From: ENAV Committee | ARM13-8.5.3 |
| To: ARM Committee |  |

LIAISON NOTE

Technologies to support Maritime Single Window.

# Introduction

The ENAV Committee has tasks related to the identification of technologies to support maritime single window (MSW) reporting (ENAV tasks 4.3.1, 4.3.5 and 4.3.10). As part of this work, the ENAV Committee was commencing a review of the requirements for reporting in MSW based on the IMO FAL.5/Circ.42 (May 2019). The IALA Secretariat brought the attention of the ENAV Committee to the work being carried out in the ARM Committee to develop a guideline on ship reporting from a shore-based perspective, as provided in C72-11.2.6.

# Comments

A meeting between the Chair (J Carson-Jackson) and Vice-Chair (E Batty) of ENAV WG2, IALA Secretariat (M Jeon) and the Task Leader for the Ship Reporting Guideline in ARM (F Pott) provided further insight into the development of the Guideline. It was agreed that the most appropriate response from the ENAV Committee on their task item was to provide input to the review and further development of the Guideline.

The Committee identified potential input for the Guideline, and agreed proposed text for inclusion in the guideline, as provided in the annex to this liaison note.

In addition, in discussion with the Task Group leader, F Pott, it was agreed that J Carson-Jackson and E Batty join the task group to provide further input related to the work of the ENAV Committee, WG2 – Emerging Digital Technologies.

# Action requested

The committee is requested to:

1. Review the proposed addition from the ENAV Committee regarding technologies to support ship reporting.
2. Proposed amendments / inclusion for draft guideline on ship reporting from a shore-based perspective

# Section 3.6.4

## Comment

Text within the section refers to ‘… harmonised cyber security regime will be available’. It is noted that harmonised does not mean the same regime – but expectation would be for confidence in cyber security for all aspects of the transport chain – i.e. cyber security goes beyond maritime application, and should be seen in a holistic manner.

## Additional sentence at end of section:

“Elements of cyber security that should be addressed include authentication, repudiation, encryption and authorisation.”

## Further comment

Propose that *Identification* be included in this section, noting it is currently included in Annex A of the draft guideline.

# New section 3.7 – Technology to Support Exchange of Data

## Comment

A new section to be included to reflect the different technologies that can be used to support ship reporting.

## Proposed text

Communication systems between the ship and the shore should support the exchange of digital data used for Ship Reporting and the ability to support SOAP and / or REST based services either directly or through a gateway.

Considerations when selecting the communication systems could include:

* Data rate to carry the digital data
* Cost
* Coverage in the area of interest
* Use of a combination of communication systems
* Reliability / Availability of the selected communication system

Communication systems that could be considered for use either directly or via a gateway are:

* IMT 2000 and IMT 2020 (LTE, 4G and 5G IMT technologies)
* VDES that includes AIS, ASM and VDE
* Satellite communication systems