

Liaison Note to 3GPP SA WG1 (Cc: 3GPP TSG SA)

Reply to LS on the information of the 3GPP standardization applicable to maritime usage and the request of the additional maritime related information

1 Introduction

IALA would like to thank 3GPP SA WG1 for their liaison regarding the work of 3GPP (ENAV22 10.3.5).

This reply liaison is to provide IALA feedback on the three questions posed by 3GPP SA WG1.

2 IALA's feedbacks on three 3GPP SA WG1's questions

IALA reviewed the questions posed by 3GPP SA WG1. IALA is pleased to provide the following responses:

- 1 Minimum value of the communication range for the direct vessel to vessel communication
 - In terms of ship to ship communications, VHF range is normally considered to be line of site, noting digital communications has slightly larger range. For digital communications ranges of 20-30 NM can be expected. For satellite-based communications, range would be expected to be global, noting specific requirements for polar regions.
- 2 Status of legacy communication methods used for the navigation
 - If legacy communication methods used for the navigation means ship to ship, ship to shore, and shore to ship communication, communication technologies are identified in the IALA Maritime Radio Communications Plan (MRCP) document available on the IALA website (www.iala-aism.org) under 'publications'.
- 3 Status of legacy communication methods used by equipment inside a vessel
 - Internal communication inside a ship is not in IALA's area of expertise.

IALA would like to inform 3GPP SA WG1 of the following Informative IALA documents that may be useful for 3GPP to understand maritime communications available on the IALA website (www.iala-aism.org) under 'publications':

- G1082 – Overview of AIS communication
- G1117 – VHF Data Exchange System (VDES) Overview
- G1139 – Technical Specification of VDES
- R1007 – The VHF Data Exchange System (VDES) for Shore Infrastructure

In addition, in the development of the VHF Data Exchange System (VDES) IALA developed a user requirements document that outlines scenarios for 7 use cases, with detail on data throughput and priority for transmission.

3 Action requested

The 3GPP SA WG1 is requested to note the response from IALA.