Input paper: [[1]](#footnote-1) DTEC2-5.2.0.1

ENG18-3.2.0.1

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM X ENG **□** PAP X Input

X DTEC **□** VTS **□** Information

Agenda item [[2]](#footnote-2) n.n

Technical Domain / Task Number 2 …………………………………

Author(s) / Submitter(s) Hideki Noguchi

Workshop proposal on the future radionavigation and radiocommunication systems

# Summary

This document proposed an IALA workshop that will be co-hosted by DTEC and ENG Committee in order to give guidance to IALA members for the introduction of future radionavigation and radiocommunication systems.

# Background

At its 17th session of ENG Committee, a need for consideration and discussion on future radionavigation systems and radiocommunication systems were recognised since emerging digital technologies could be used for both radionavigation and radiocommunication as one system, e.g. VDES R-mode, Galileo return link service (section 7.8, ENG 17-14.1). As the result, the ENG tasked the author to submit a proposal of IALA workshop on this issue to DTEC 2 and ENG 18.

# Discussion

The proposed workshop is aimed to update the worldwide radiocommunication plan (WWRCP, now updated as Maritime Radiocommunication Manual) maintained by DTEC and the worldwide radionavigation plan (WWRNP) maintained by ENG as well as provide the guidance to IALA members on this issue. In addition, since the decision of the introduction of VDES-R-mode is expected to be made at ITU World Radiocommunication Conference in 2031 and IMO will be needed to introduce it in the IMO instruments, i.e. Resolution A.1046(27) *Worldwide radionavigation system*, the workshop is also aimed to provide IALA views on the revision of this instrument.

Considering the guidance developed by this workshop could be useful for especially the AtoN authorities in the WWA target countries, the co-hosts of the workshop should consult with WWA for their involvement in the workshop.

The proposal of the workshop is attached as annex of this document.

# Action requested to the Committee

The Committee is requested to consider the proposal and act as appropriate.

**Workshop and Seminar Proposal**

|  |  |
| --- | --- |
| **Vision** | **Maritime Radionavigation and Radiocommunication in Digital era** |
| **Proposal** | Workshop on development of guidance to IALA members for their consideration of future plan |
| **Purpose(s)** | 1. To guide AtoN and VTS authorities, providers and manufacturers for the investment and development of future maritime radionavigation and radio communication systems 2. To identify operational requirements of AtoN services and VTS for future maritime radionavigation and radiocommunication systems 3. To identify technical, regulatory and operational challenges for future maritime radionavigation and radiocommunication systems 4. To identify the IALA role in digital maritime radionavigation and radiocommunication systems 5. To educate WWA target countries on present and future radionavigation and radiocommunication systems |
| **Goal(s)** | 1. To develop a guidance to IALA members including WWA target countries on digital maritime radio navigation and communication in future including update of IALA worldwide radionavigation plan and maritime radiocommunication manual 2. To develop IALA’s view on future radionavigation and radiocommunication systems for the consideration at IMO and ITU |
| **Who** | The workshop will provide a forum for discussion and development of IALA plan on digital maritime radio communication infrastructure. It is envisaged that invitations will be sent to:   * Marine aids to navigation authorities and providers * Maritime radionavigation and radiocommunication international authorities such as IMO, ITU, IEC, CIRM, RTCM * Association of seafarers * Ship owners/ operators * Industry members involved in radio navigation and/ or communication equipment and systems * WWA target countries (about 10+) |
| **Size of Group** | It is expected that the Workshop will attract a group of up to XX persons.  In addition, there will be about 10 WWA student |
| **Where** | TBD |
| **Duration** | X days including one or half day WWA seminar |
| **When** | 2025 or 2026  Note: Sustainability Workshop is planned to be held in October 2025 |
| **Cost to Participants** | TBD |
| **Process** | TBD |
| **Steering Committee** | Proposed Steering Committee for the Workshop:  Chairs and vice chairs of IALA ENG and DTEC Committees and its relevant WGs  Representatives from the host organization  IALA Secretariat and WWA |

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)