**Input paper: [[1]](#footnote-1)** DTEC2-5.2.2.7

**Input paper for the following Committee(s):** **Purpose of paper:**

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ARM  ENG  PAP  Input

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

**Technical domain/ Task number** 2 IMT-2030 / DTEC-6.2.1

**Author(s)/Submitter(s)** Hyounhee Koo, TG Leader

Report of the Intersessional task group activity on the implications of imt-2030 for marine aids to navigation

# Summary

The IALA DTEC Committee has been tasked to contribute to the development of IMT-2030 by formulating user requirements for Marine AtoN. The work is contributing to the development of 3GPP mobile communication standards, with a specific focus on the maritime industry vertical.

## Purpose of the document

To brief the participants of DTEC02 on the progress that has been made through intersessional task group (ITG) meetings.

## Related documents

DTEC2-5.2.2.7.1 WP Draft IMT (3GPP) Recommendation

DTEC2-5.2.2.7.2 Draft IMT (3GPP) Guideline

# Discussion

The Task Group met three times between DTEC01 and DTEC02. The focus for the work was to:

* review and revise the task register terminology
* note examples of use of IMT-2030 through member presentations
* develop an approach to categorize the use cases for Marine AtoN over IMT-2030 (including assumptions)
* draft liaison note(s) for 3GPP on the developments of the use cases for IMT-2030 technologies for Marine AtoN
* analyse the legacy use cases from IALA standards and recommendations
* review the existing draft documents on IMT (3GPP) as prepared during the last work programme

# Comments

To support the focus of the work, it was agreed to base the outcome of the task group on the existing IALA draft documents, with revision to the title to reflect the task more clearly by changing ‘… by AtoN Authorities’ to ‘… for Marine AtoN over IMT2030’. It is anticipated the titles will be revised further as the work progresses.

The general categories for the use cases for Marine AtoN over IMT-2030 with the scope of IALA identified four possible categories:

* Maritime Buoyage System (MBS) (mainly related to R1001)
* Positioning, Navigation and Timing (PNT) (considering both legacy and new (such as R-Mode etc) approaches)
* Vessel Traffic Services (VTS)
* Digital Maritime Services such as Single Window Reporting etc.

In addition to the discussion about the categorization of use cases for Marine AtoN over IMT-2030, it was discussed about two following assumptions on maritime communication environments:

1. Maritime and in-land waterway navigational environments are considered when Marine AtoN over IMT-2030 is applied.

*NOTE: The term ‘in-land waterway’ is used here to mean the inclusion of ports, fairways, windfarm etc. but the more proper term than ‘in-land waterway’ will be looked for later to describe all use cases occurred in terrestrial area. In addition, the primary focus on this task group is given to the open sea area and its extension to in-land waterway etc.*

1. Both legacy type of vessels and new type of vessels (e.g., autonomous ships) are assumed to coexist when Marine AtoN over IMT-2030 is applied.

*NOTE: “Legacy type” and “New type” meaning will be clarified when this task group develops the IALA Guideline.*

# Action requested of the Committee

The Committee is requested to:

1. note the work of the IMT-2030 Task Group.
2. provide input on possible use cases for IMT-2030 for consideration at DTEC02.
3. note the ongoing development of guidance for IALA members for Marine AtoN over IMT-2030.
4. approve the drafted liaison note to be sent to 3GPP TSGs to inform them of the update on the IMT-2030 Task Group as attached.
5. note revisions of two existing draft documents on IMT (3GPP) as attached.

# attachments

* DTEC2-5.2.2.7.3 Draft liaison note to 3GPP TSGs on IALA task for Marine AtoN over IMT-2030
* DTEC2-5.2.2.7.1 Revision of draft IMT (3GPP) Recommendation
* DTEC2-5.2.2.7.2 Revision of draft IMT (3GPP) Guideline

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