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| From: IALA DTEC Committee | ENG19-3.1.0.14 |
| To: IALA ENG Committee | DTEC3-11.2.2.1  3 October 2024 |

LIAISON NOTE on the PNT requirements

# INTRODUCTION

The IALA DTEC Committee has begun developing the IALA Guideline, which includes use cases and service requirements with regulatory aspects for Marine AtoN, which contribute to formulating inputs as served for incorporating demands of Marine AtoN related stakeholders into 3GPP standardization for IMT-2030. This IALA Guideline will cover use cases for Marine AtoN over IMT-2030 of four categories whose one is Positioning, Navigation and Timing (PNT).

In terms of the PNT requirements, the IALA DTEC Committee is planned to conduct the gap analysis between the current ones from the perspective of IALA and the necessary requirements supporting emerging Marine AtoN over IMT-2030. In addition, IALA DTEC Committee would like to ask IALA ENG Committee if there are PNT requirements.

NOTE: This request to the ENG Committee is motivated by current work on the Draft Revision of Report ITU-R M.2527 (2023) which collects use cases from various IMT application domains, including maritime already. Already in the present Report ITU-R M.2527 (2023), there is a requirement statement regarding PNT included in paragraph  7.4 "High precision positioning" which might be of interest to ENG Committee. Regarding the future envisaged IMT-2030 and beyond technology, the Recommendation ITU-R M.2160 (2023) contains a quantitative positioning accuracy requirement as part of the key performance indicators for IMT-2030 and beyond. Please compare following Figure 1 from Recommendation ITU-R M.2160.

텍스트, 원, 도표, 스크린샷이(가) 표시된 사진

자동 생성된 설명

Figure 1. Capabilities of IMT-2030 (Source: Recommendation ITU-R M.2160)

# ACTION REQUESTED

IALA ENG Committee is requested toprovide feedback on the current or defined PNT requirements per usage scenario from the perspective of IALA, ideally also provided in quantative terms.