



**Radio Technical Commission for Maritime Services**

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**LIAISON NOTE - Reply to IALA regarding update of the RTCM SC10402.3 standard**

RTCM SC-104 would like to thank IALA for the good co-operation regarding the update and future of the RTCM 10402.3 standard and for the Liaison note ref C02-12.2.1 (ENG20-9.2.2.1).

RTCM takes note of the information provided in the Liaison note.

MF R-Mode can be implemented in the existing RTCM 10402.3 standard and done so most efficiently through introduction of Amendment 2. The revision of the standard should be done in close co-operation with the existing MF R-mode test beds in the Republic of Korean Waters and Baltic Sea with the aim to publish the new standard by the end of 2026.

With respect to support for differential corrections for Galileo, BDS, IRNSS and QZSS, RTCM would like to inform IALA that these systems are already supported by the RTCM 10403.4 standard. After consulting IALA, RTCM has decided not to proceed with the generic multi-constellation, multi-frequency messages previously proposed in the draft RTCM 10402.4 standard, due to the bandwidth limitations of radio beacons, which is insufficient to support additional demands required to support additional constellations.

The current plan for a future RTCM 10402.4 standard is to delete messages from RTCM 10402.3 that are currently not used, to consider adding a new Integrity Support Message (ISM) that can support several GNSS and frequencies, and to incorporate prior Amendments.