

# Liaison Note to RTCM

## IALA response to RTCM Liaison Note on SC-104

### 1 INTRODUCTION

The Radio Technical Commission for Maritime services (RTCM) has sought IALA's help in identifying the future user requirements for its new *RTCM 10402.4 Recommended Standards for Differential GNSS (Global Navigation Satellite Systems)* - referred to as RTCM DGNSS broadcast standard v2.4.

The existing standard (version 2.3) provides correction information for the GPS and GLONASS constellations, while the new version 2.4 has new messages in order to provide corrections to any current or future satellite constellations.

Version 2.4 of the standard has been in development for many years but has not yet been finalized. RTCM would like to understand the user demand and time frame for use of this new functionality as that will help identify priorities of work within the RTCM SC-104 committee. While IALA cannot comment on the mariner's requirements, it can seek to understand the intentions of national service providers and potentially the considerations of sister organisations.

During IALA ENG13, the Chair of the RTCM SC-104 working group on DGNSS posed the following questions and comments:

- "1. Does version 2.3 cover the needs for next years?
2. Is it likely that 2.4 will be used by service providers?
3. Should 2.4 include other message types (like R-Mode support, integrity mode support)?
4. Alternative use of the marine radio beacons (new RTCM standard supporting ARAIM, R-Mode)"

They also invited IALA to schedule a new work item to update ITU recommendation *M.823*, which encapsulates the RTCM broadcast standard within an international standard. There is a known error within the definition of Message 27 in the current draft.

### 2 DISCUSSION

IALA, via its ENG Committee, reviewed these questions. It was identified that in order to address these questions, IALA will need to survey its National members who provide such services today. IALA will review how best to undertake such a survey and will provide the findings to RTCM once complete.

IALA will schedule a work item to review *M.823* and provide a draft amended version to the ITU.

### 3 ACTION REQUESTED

The RTCM is requested to note the intended actions of IALA at this time.