

The Radio Technical Commission for Maritime Services Report to HSSC-7



Some activities relevant to IHO



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Who we are



- RTCM was established as a U.S. government federal advisory committee in 1947. It is now an independent membership organization with scientific, professional, governmental, and educational affiliations and is no longer restricted to maritime communication matters.
- Members involved in
 - Policy issues
 - Regulatory changes
 - Technical standards development

Quick facts about RTCM

- More than 130 member organizations
- Involvement with
 - International Maritime Organization (IMO)
 - Cospas-Sarsat
 - International Electro-technical Commission (IEC)
 - International Organization of Standards (ISO)
 - European Telecommunication Standards (ETSI)
 - International Loran Association
- Contribute to relevant work of:
 - The International Hydrographic Organization (IHO)
 - The International Telecomunications Union (ITU)
 - The International Association of Aids to Navigation and Lighthouses Authorities (IALA)
 - The Comité International Radio-Maritime (CIRM)
 - The National Marine Electronics Association (NMEA)
 - The Mobile Satellite Users Association (MSUA)
- 15 Special Committees
- 5 different "Mailing Lists" (subject-specific interest groups)



Special Committee 104 Differential Global Navigation Satellite Systems (DGNSS)



- Esri Chairs the Joint RTCM/NMEA Working Group
- For the development of new GPS/GNSS data messages
- Working Group tasks that can be beneficial to hydrographic surveys:
 - PBV Position: Extend (GGA fix information) sentence with covariance (accuracy) information
 - PBV Baseline vector: Develop a new baseline vector sentence with covariance (accuracy) information
- NMEA reported new requests for support of new constellations (IRNSS, BDS and QZSS)

SC 104 coordination with IALA e-Nav Committee WG5

The PNT WG –

- Developing a product spec for eLoran data, beacon corrections and data exchange
- An S-100 Product Spec could be of interest to all



RTCM Special Committee 133 on Data Exchange for Navigation-Related Internet Connected Applications

- New Special Committee
- Growing number of navigation-related applications available for mariners running on mobile devices.
- Applications for mobile devices have the potential to provide useful maritime information
- Quality and timeliness in apps affecting navigation safety
- a need to produce a standard or standards on Data Exchange for Navigation-Related Internet connected Applications
- An Internet based AIS Service will be reviewed and potentially a standard developed.
 - Small vessels
 - REST Interface







Thank you

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