



National Marine Electronics Association

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For Immediate Release

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NMEA PUBLISHES NEW VERSION OF NMEA 0183 FOR NEW GLOBAL SATELLITE SYSTEMS

SEVERNA PARK, MD—The National Marine Electronics Association (NMEA) has published a new version of NMEA 0183—Version 4.30, which replaces Version 4.11 (2018 Release) and includes updates to the entire suite of GNSS (Global Navigation Satellite System) sentences. This includes significant interface updates for the use of GPS (USA), GLONASS (Russia), GALILEO (Europe), BDS (China), QZSS (Japan), and NavIC (RNSS) (India) satellite systems. Also included are new Navigation Satellite System Receiver Talker Identifiers and Sentence Formatters, an expanded GNSS Identification Table (including Receiver INdependent EXchange (RINEX) Observation Codes), and improved support for Search and Rescue capabilities (RLM). New GNSS sentences provide enhanced integrity information (GIR), High accuracy positioning (GRP), Improved Autonomous platform support (GGC, GCF), comprehensive support for Satellite Based Augmentation Systems (GSN), and SafetyNet Vessel in distress information (SMV).

NMEA 0183 continues to evolve outside of the marine market as a common interface to display GNSS data coming from the antenna/chipset. The industrial sector, including survey, testing laboratories, government entities and consumer electronics, including cell phones, all use NMEA 0183 data to assist in crowd sourcing map data. NMEA 0183 plays a big part in the growing integration of IoT (Internet of Things) and “Big Data” applications.

“This comprehensive update has been examined, vetted and completed with collaboration of a variety of organizations worldwide,” said Mark Oslund, NMEA Director of Standards. “These include the NMEA 0183 Committee, USCG satellite experts, Canadian Coast Guard GNSS experts, RTCM (Radio Technical Commission for Maritime Services) Special Committees 104 and 134, satellite system experts from BDS, QZSS and NavIC, IEC (International Electrotechnical Commission) TC80 Working Group 6 and Satellite Based Augmentation System experts, Institute of Navigation, University of Colorado – Boulder, along with mobile device and multiple GNSS chipset manufacturers.”

Many other updates and additions not related to GNSS are included in this new release, a list of all updates can be viewed by visiting the NMEA 0183 section at www.nmea.org. To purchase the updated Version 4.30 of NMEA 0183, visit www.nmea.org, email: info@nmea.org or call the NMEA National Office at 410-975-9425.

About the NMEA

Founded in 1957, the NMEA has led the way in establishing technical standards for data exchange in marine electronics, with the widely accepted NMEA 0183 data protocol, NMEA 2000® and training & certification for marine electronics technicians and installers. NMEA standards and programs focus on ensuring that the boating consumer is provided with reliable products and professional service. For more information, visit www.NMEA.org or call (410) 975-9425.