sbgECom Library

Change-log v1.10.3692-stable

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Software Change Log

Support EME

support@sbg-systems.com +33 1 80 88 43 70

Americas

support@sbg-systems.com +1 (657) 549-5807

1. Summary

This software release focuses on new features, bug fixes and, reliability.

It also adds the support for latest products and firmware releases.

2. Import highlights from this release

- Support for new ELLIPSE-D with updated GNSS receiver
- Support for new Navsight product line

3. Upgrade Procedure

The latest sbgECom Library version comes with an SDK release. You can download the latest SDK using the SBG Systems support center web area.

4. All updated for release 1.10.3692-stable

4.1. New Feature

- [SBGECOM-115] Add Septentrio Internal GNSS model for new Ellipse D
- [SBGECOM-117] Added getters for delta a angle / velocity / temperature for IMU Short log
- [SBGECOM-119] Added new Swell Mode Ship Motion status flags

4.2. Improvement

- [SBGECOM-118] Improved sbgEComStartFrameGeneration & sbgEComFinalizeFrameGeneration methods
- [SBGECOM-122] Increased time out for sbgEComCmdLicenseApply to support new ELLIPSE-D internal GNSS



5. All updates for release 1.9.706-stable

5.1. New Feature

- [SBGECOM-110] Added DOLOG HRP proprietary message
- [SBGECOM-111] Added a new short IMU log message also used for post processing
- [SBGECOM-112] Add a heavy machinery motion profile definition for Ellipse series

5.2. Bug Fixes

• [SBGECOM-113] - Fixed invalid SBG_ECOM_CAN_RX/TX_OK comments

6. All updates for release 1.8.2916-stable

6.1. New Feature

- [SBGECOM-95] Added GPS number of SV used and diff corrections details in sbgECan protocol
- [SBGECOM-105] Add compatibility with SBG_ECOM_CMD_VALIDITY_THRESHOLDS command
- [SBGECOM-108] Added support for aiding assignment on Port E for ELLIPSE-E and N

6.2. Improvement

• [SBGECOM-91] - Added sbgEComSetCmdTrialsAndTimeOut to setup the number of trials and default time out for commands

7. All updates for release 1.7.235-stable

7.1. New Feature

- [SBGECOM-89] Implement Kongsberg Binary 26 message output
- [SBGECOM-87] Add an uptime indication in SBG_ECOM_LOG_STATUS
- [SBGECOM-86] Added the command SBG_ECOM_CMD_ETHERNET_INFO to current device IP address
- [SBGECOM-85] Added command SBG_ECOM_CMD_ETHERNET_CONF to define / retrieve the Ethernet configuration
- [SBGECOM-77] Add new output log class for NMEA proprietary messages
- [SBGECOM-75] Added UAV motion profile definition (for low dynamic rotary wing UAV applications)

7.2. Improvements

• [SBGECOM-83] - Better use of size_t type instead of uint32 to comply with C standard and 64 bit platforms

7.3. Tasks

• [SBGECOM-84] - Updated sbgCommonLib to latest revision



7.4. Removed Feature

• [SBGECOM-79] - Removed deprecated "course" from the GNSS configurable aiding sources

8. All updates for release 1.5.209-stable

8.1. New Feature

- [SBGECOM-72] Added proprietary NMEA message PASHR for roll, pitch, heading, heave
- [SBGECOM-70] Added SBG Proprietary NMEA message with acceleration and angular rate
- [SBGECOM-68] Added SBG_ECOM_OUTPUT_MODE_DIV_5 flag for 40 Hz output
- [SBGECOM-66] Added SBG_ECOM_GENERAL_CPU_OK status flag
- [SBGECOM-65] Added sbgEComHandleOneLog method to return even if more logs are available
- [SBGECOM-64] Added sbgEComSendAck method
- [SBGECOM-62] Added sbgEComStartFrameGeneration and sbgEComFinalizeFrameGeneration methods
- [SBGECOM-59] Added sbgECom log generation code
- [SBGECOM-57] Added SBG_ECOM_LOG_FAST_IMU_DATA message definition
- [SBGECOM-40] Added KVH third party output format id (SBG_ECOM_THIRD_PARTY_KVH)

8.2. Improvements

- [SBGECOM-74] Switched unix projects to CMake
- [SBGECOM-73] Added examples into the sbgECom
- [SBGECOM-63] Updated sbgCommonLib to latest revision
- [SBGECOM-61] Use stream buffer instead of basic buffer for sbgECom log parsing
- [SBGECOM-51] Added SBF (Septentrio) protocol support on Ellipse-E
- [SBGECOM-50] Added direct PPS from internal GNSS Sync Output (SBG_ECOM_CMD_SYNC_OUT_CONF)
- [SBGECOM-47] Made the sbgECom 64 bit compatible
- [SBGECOM-46] Switched project files to Visual Studio 2013
- [SBGECOM-45] Added a new callback method (sbgEComSetReceiveLogCallback) and deprecated the old one (sbgEComSetReceiveCallback)
- [SBGECOM-42] Improved handling of MSG and CLASS fields in low level protocol functions

8.3. Bug fixes

- [SBGECOM-71] Fixed sbgEComCmdGetInfo incorrect error code return when an invalid payload is received
- [SBGECOM-44] Fixed Various incompatibilities in Big Endian platforms
- [SBGECOM-43] Added output of NACK reasons in sbgECom configuration commands using the return code



8.4. Removed Feature

• [SBGECOM-60] - Removed Ship Motion 1,2,3 and Ship Motion HP 1,2,3 due to new deported heave concepts



9. All updates for release 1.4.3239-stable

9.1. New Feature

- [SBGECOM-28] Added differential correction age, diff base id and num sv to the SBG_ECOM_LOG_GPS#_POS
- [SBGECOM-29] Added GNSS raw data log for the second GNSS receiver
- [SBGECOM-30] Added official support for Ellipse additional output interfaces PORT C and PORT E
- [SBGECOM-33] Added big/little endian support for stream buffer
- [SBGECOM-34] Added sbgPlatform.h file to setup platform specific configuration such as endianness

9.2. Improvements

- [SBGECOM-7] Added support for both little and big endian platforms
- [SBGECOM-32] Improved stream buffer error handling
- [SBGECOM-36] Improved File naming and overall library organization
- [SBGECOM-37] Modified firmware and software version numbering scheme
- [SBGECOM-38] Increased raw GPS data buffer size from 2048 to 4096 bytes

9.3. Bug fixes

- [SBGECOM-21] Fixed SBG_ECOM_ETH#_RX_OK and SBG_ECOM_ETH#_TX_OK status definitions
- [SBGECOM-27] Changed sbgEComHandle behavior so the error returned by receive call back is taken into account
- [SBGECOM-35] Fixed improper comments in some configuration structures



10. All updates for release 1.3

10.1. New Feature

- [SBGECOM-10] Added sbgInterfaceChangeBaudrate for both windows and unix platforms
- [SBGECOM-19] Added SBG_ECOM_LOG_PRESSURE log for depth sensors and altimeters
- [SBGECOM-25] Added support for Ellipse series
- [SBGECOM-26] Added SBG_ECOM_LOG_USBL log for USBL aiding equipments (beta)

10.2. Improvements

- [SBGECOM-18] Fixed Typos in GPS pos, Vel and Hdt Fix Status
- [SBGECOM-20] Better error checking for sbgStreamBuffer with new method sbgStreamBufferGetLastError
- [SBGECOM-22] Added UTC & Clock status to the binary log SbgLogUtcData
- [SBGECOM-23] Added Solution status to the binary log SbgLogEkfEuler, SbgLogEkfQuat, SbgLogEkfNav
- [SBGECOM-24] Added time stamp to the log SBG_ECOM_LOG_MAG_CALIB



11. All updates for release 1.2

11.1. New Feature

- [SBGECOM-14] Added SBG_ECOM_LOG_SHIP_MOTION_HP logs for delayed heave output
- [SBGECOM-15] Added sbgInterfaceSerialChangeBaudrate method to change the serial interface baud rate
- [SBGECOM-17] Added SBG_ECOM_POS_FIXED / SBG_ECAN_POS_FIXED position type for GPS

11.2. Improvements

- [SBGECOM-13] Updated SBG_ECOM_LOG_SHIP_MOTION_XXX logs to add velocity and status data
- [SBGECOM-16] Changed GPS OmniStar solution type to PPP ones for better compatibility with third party GPS

11.3. Removed Feature

• [SBGECOM-11] - Removed heave status field from SBG_ECOM_LOG_STATUS log



12. All updates for release 1.1

12.1. New Feature

- [SBGECOM-1] Added output log for DVL support
- [SBGECOM-3] Added output for GPS 1 raw data in order to support post processing
- [SBGECOM-4] Added event markers logs support
- [SBGECOM-6] Added Unix support and build script
- [SBGECOM-8] Added sbgEComReceiveAnyCmd method that return any received command that is not an output log
- [SBGECOM-9] Added settings import and export command

12.2. Improvements

- [SBGECOM-2] Added pitch information in the SbgLogGpsHdt GPS true heading log
- [SBGECOM-5] Now sbgEComProtocolReceive method returns the received command even if the CRC is not valid

