



u-center v18.06

Release Note

Abstract

Release notes containing general information, features, improvements, changes and known limitations for u-center v18.06

Document Information

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Contents

1 General Information.....	4
1.1 Released Files.....	4
1.2 Version and Checksum of Files.....	4
1.3 Released Documentation.....	4
2 Features.....	5
2.1 Supported Microsoft Windows versions.....	5
2.2 Supported Receiver Generations.....	5
2.3 Supported Protocol Specification Version.....	5
2.4 External hardware support.....	5
2.5 Multiple GNSS AssistNow Service.....	5
2.6 Debug Messages.....	5
3 Improvements and Changes.....	7
3.1 Version 18.06.....	7
3.2 Version 18.05.....	7
3.3 Version 18.04 - Beta release only.....	7
3.4 Version 8.29.....	7
3.5 Version 8.28.....	8
3.6 Version 8.27.....	8
3.7 Version 8.26.....	8
3.8 Version 8.25.....	9
3.9 Version 8.24.....	9
3.10 Version 8.23.....	9
3.11 Version 8.22.....	9
3.12 Version 8.21.....	10
3.13 Version 8.20.....	11
3.14 Version 8.19.....	11
3.15 Version 8.18.....	12
3.16 Version 8.17.....	12
3.17 Version 8.16.....	12
3.18 Version 8.15.....	12
3.19 Version 8.14.....	12
3.20 Version 8.13.....	13
3.21 Version 8.12.....	13
3.22 Version 8.11.....	14
3.23 Version 8.10.....	14
3.24 Version 8.01.....	15
3.25 Version 8.00.....	15
4 Known Limitations.....	17
4.1 Known Issues.....	17

1 General Information

The u-center GNSS evaluation software for automotive, mobile terminal and infrastructure applications provides a powerful tool for evaluation, performance analysis and configuration of the u-blox GNSS receiver.

1.1 Released Files

The following table lists the files that have been released.

File	Description
u-center_v18.06.exe	u-center installer including u-blox GNSS Standard Driver for Windows v1.2.0.8, u-blox GNSS Sensor Device Driver for Windows v2.40 and u-blox GNSS VCP Device Driver for Windows v3.10
u-center-v18.06_ReleaseNote_(UBX-18033765).pdf	Public release note
u-center_UserGuide_(UBX-13005250).pdf	User guide

1.2 Version and Checksum of Files

The following table lists the versions and the checksums of the [Released Files](#).

File	Version	MD5
u-blox GNSS Standard Driver for Windows	1.2.0.8	
u-blox GNSS Sensor Device Driver for Windows	2.40	
u-Center.exe	18.06	80ccd13a013621813dadedd9075f76bb2
flash.xml	200037	74c5313ae026188c05e4fdb4448e9333
flash.xml_changelog.txt		425fa41bd1ee78dfa0e4b47e8109fd47
flash.txt	101098	b49a4b5d33efa113737208e788cf3afc
NMEA.dll	18.06	1ffcef1dd0af44eb17334f1b673a6c48
RTCM.dll	18.06	a812b2386ff0ee3aae9d0aecb3700ef9
sqlite3.dll	3.21.0.0	07fb6d31f37fb1b4164bef301306c288
UBX.dll	18.06	65fc285abe06f154339be15531387dec
ubxfwupdate.exe	2.20	3cb1fad3a7be4f41112dd23f017c529

1.3 Released Documentation

- Public Release Notes (UBX-18033765)
- u-center User Guide (UBX-13005250)

2 Features

2.1 Supported Microsoft Windows versions

u-center v18.06 will run on Microsoft Windows Vista up to and including Windows 10.

2.2 Supported Receiver Generations

u-center v18.06 can update the firmware of the following receiver generations:

- u-blox 5 with ROM 3.00, ROM 4.00, ROM 5.00
- u-blox 6 with ROM 6.00, ROM 6.02, ROM 7.03
- u-blox 7 with ROM 0.10, ROM 0.11, ROM 0.14, ROM 1.00
- u-blox 8/M8 with ROM 0.21, ROM 0.22, ROM 2.01, ROM 3.01
- u-blox F9 with ROM 0.30, ROM 0.40, ROM 1.01



u-blox 5 receiver support is end of life and will be removed in one of the next versions.

2.3 Supported Protocol Specification Version

u-center v18.06 supports the u-blox protocol specification from version 10.00 up to and including version 27.

2.4 External hardware support

The following external hardware is supported to interface with the receiver:

Interface	Device	DLL version
DDC/I2C	Totalphase Aardvark I2C/SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
DDC/I2C	Diolan U2C-12 USB-I2C/SPI/GPIO Adapter	i2cbrdg.dll v1.0.0.9 for Windows 32-bit
SPI	Totalphase Aardvark I2C/SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
SPI	Totalphase Cheetah SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
SPI	Diolan U2C-12 USB-I2C/SPI/GPIO Adapter	i2cbrdg.dll v1.0.0.9 for Windows 32-bit

2.5 Multiple GNSS AssistNow Service

u-center v18.06 includes the multiple GNSS AssistNow Service (libMGA) version 1.10.

2.6 Debug Messages

The following messages will be enabled or polled when pressing the "Debug Messages" button:

- Any UBX-INF
- UBX-MON-MSGPP
- UBX-NAV-CLOCK
- UBX-NAV-PVT
- UBX-NAV-SIG
- UBX-NAV-ORB
- UBX-NAV-SAT
- UBX-RXM-SVSI (every 30 seconds)
- UBX-MON-HW (polled)

- UBX-MON-EXCEPT (polled)
- and additional u-blox debug messages

The following messages will additionally be enabled or polled when pressing the "Debug Messages" button for ADR product line:

- UBX-ESF-MEAS
- UBX-ESF-STATUS

The following messages will additionally be enabled or polled when pressing the "Debug Messages" button for HPG product line:

- UBX-NAV-RELPOSNED
- UBX-NAV-SVIN
- UBX-MON-IO
- UBX-NAV-SOL
- UBX-NAV-AOPSTATUS

The following messages will additionally be enabled or polled when pressing the "Debug Messages" button for SPG product line:

- UBX-MON-IO
- UBX-NAV-SOL
- UBX-NAV-AOPSTATUS

3 Improvements and Changes

3.1 Version 18.06

- Update of CFG-VALSET: Added CFG-MSGOUT-RTCM3X_TYPE1097.
- Update of table view, statistic view, chart view, histogram view: Added PSM state (Power Save Mode).
- Bug fix: UBX-CFG-TP5 message view fixed so that duty cycle shows correctly when toggling between length/duty cycle of the Time Pulse (TP).
- Bug fix: Fix for crashes during download of MGA online data.
- Update of UBX-CFG-SPT and UBX-MON-SPT: Added support for LSM6DSL sensor.
- Update of UBX-MON-HW: Fixes on scope and names of virtual pins for u-blox 9.

3.2 Version 18.05

- Update of mechanism for properly closing the crash reporting application, which was randomly crashing while being closed.
- Update of CFG-VALDEL, CFG-VALGET, CFG-VALSET messages: Trimmed layout, change in handling of hex displayed values; i.e. correct handling of negative values.
- Update in storing the messages coming from/to receiver; added new database.
- Update of Player menu: New menu and toolbar items added which enable user to step backward in time one step at the time.
- Bug fix: In the CFG-SBAS SV122, the new Australian SBAS is removed from WAAS.
- Update in multi-constellation and multi-band visualization by using NMEA (4.1) messages.
- Update of NTRIP server screen: Added two tabs. First tab contains the basic configuration (port only), the second contains the rest of the configuration options.
- Update of Reference of RTCM: Version 3.2 changed to version 3.3.

3.3 Version 18.04 - Beta release only

- Improvement in Satellite signal information clean up: primarily takes care of unwanted flickering of the views and consistent data coming from all different messages carrying signal information.
- BugSplat feature has been added for collecting crash reports.
- Update of UBX-CFG-NAV5: Now supports bike as dynamic platform model, for receivers with prot-ver = 19.20.
- Update of UBX-CFG-ESFLA: A type 4 Lever Arm related IMU (inertial measurement unit) to CRP (configurable reference point) is introduced.
- Update of UBX-CFG-SLAS and UBX-NAV-SLAS: Audience changed to PUB.
- Update of debug messages: The UBX-NAV-SIG message added; to support debugging for multi-band products.
- Bug fix: Update of UBX-SUBX-TCI, fixed the disappearing lines when paused. Fixed chip 1 view.
- Update of NMEA-GRS: Added descriptive GNSS ids and signal ids.
- Update of NMEA-GBS: Added descriptive GNSS ids and signal ids.
- As of April 2018, the u-center release number has a new release version definition, where the current "year.month" defines the release number. For example, the version number for April, 2018 release is 18.04.

3.4 Version 8.29

- Update of UBX-CFG-PM2: Updated version 3 option names for the optTarget field.
- Update of UBX-ESF-MEAS: Added combo box to allow selection of which data id to visualize.

- Update of UBX-CFG-PRT: Data bit, stop bit, parity and bit order control now public.
- Update of UBX-CFG-OPT: Updated field names.
- Rename QZSS SAIF and LEX signals. QZSS signal SAIF -> L1S. QZSS signals LEXS, LEXL -> L61D, L61E. Added QZSS signals L62D, L6E.
- Bug fix for debug messages: Now enabled regardless of audience.
- Bug fix for deviation plot view: Max zoom fix.
- Bug fix for satellite view: Visualization of signals for multi-frequency case.
- Bug fix for corrupted messages in log files when sending information to receiver.
- Bug fix: u-center now recognizes Windows 10 USB to Serial driver.
- Update in HTTP response to support Google Earth Pro.
- QZSS signal name changes: QZSS_SAIF->QZSS_L1S and QZSS_LEX->QZSS_L61
- Improved NTRIP client.
- Tidied up UI issues in the NTRIP server dialog: Can enter periods correctly. Confusing "Store" check box removed.

3.5 Version 8.28

- Update of UBX-DBG-NAV: Added SLAS RAIM source.
- Update of UBX-MON-HW: New pins added.
- Improved NTRIP server dialog UI.
- Improved NTRIP client dialog UI.
- Improved NTRIP server stability and bug fixes.
- Improved NTRIP client reconnection.
- Added firmware update support for u-blox next generation products, including "update to ram" and no fis features.
- UI improvements for u-blox F9 in the firmware update tool dialogs.
- Updated the sqlite lib to version 3.21.
- Google server can now be started with just a loaded log file.
- Improved NTRIP client reconnection to caster.

3.6 Version 8.27

- Update of UBX-MON-GNSS: Minor cosmetic changes in view.
- Update of UBX-NAV-SBAS: Minor bug fix in element type.
- Update of UBX-CFG-PM2: Single GNSS POT transition conditions.
- Fix to show correct colors for DR history in map view.
- Fixing the offset of image when saving map in map view.
- Logging raw data coming directly from HW interfaces.
- Extending the size of custom UBX hex input window to 2976 (992 bytes).
- Enabling debug messages based on firmware type.
- Added search filter to the message view.
- Integration of external Firmware Update Tool to u-Center.

3.7 Version 8.26

- Update of UBX-CFG-PMS: 4Hz Power Save Mode now public.
- Update of UBX-CFG-NAVX5: v3 now public.
- Update of UBX-NAV-RELPOSD: accN, accE and accD now scaled down by 10000 instead of 1000 (treated as 0.1 mm instead of 1 mm).
- Added GAL E5a to database.
- Improvements to launching dialogs from status bar clicks.

- Improvements to robustness NTRIP support.
- Fix some unicode issues.
- Support for fetching almanac, time and position aiding for Offline MGA services and improved Offline services dialog.
- Added auto receiver information detection, with UI to enable/disable this feature.
- Improved UI responsiveness of satellite ground view.
- Restored previous list of enabled messages in Debug feature while maintaining subset for ADR firmware.
- Added option to limit size of database.
- Improvements in speed vectors in map view. Now showing arrow heads.

3.8 Version 8.25

- Added RTCM 4072 sub type 0 proprietary message
- Update of UBX-AID-INI: Fixed view
- Update of UBX-NAV-PVT: Added support for magnetic declination
- Update of UBX-NAV-RELPOSNED: Added additional fields
- Removed some messages that get activated on Debug Messages button
- Support for custom baud rate
- Update of map view: Support moving baseline
- Making UI responsive also when processing data from log file at high speed
- Supporting Sqlite external database to store history
- Various minor general and cosmetic improvements

3.9 Version 8.24

- Update of RTCM: Added messages 1074, 1084, 1124 and 1230
- Update of UBX-CFG-CFG: Fix to properly show data in view
- Update of NMEA GSA: Set correct type of fix according to protocol specification
- Fix to properly store and show ECEF Y and Z
- Support for Google Earth server added
- Various minor cosmetic updates

3.10 Version 8.23

- Update of UBX-CFG-PRT: Handle flow control fields and cosmetic UI improvements
- Update of UBX-CFG-PM2: Update of the field "updatePeriod"
- Support for the use of SSL in online and offline assistance services
- Support for the NTRIP client
- Support for the NTRIP server/caster
- Show Galileo in Sky view
- Multiselect enabled on property search/select dialog
- Chart view now has a "sync" button to make all the x-axis use the same database property
- Short cut keys Ctrl-X, Ctrl-C, Ctrl-V now work in the text, binary and packet views
- Correctly storing UBX-CFG-MSG RTCM messages when pressing the Record button
- Various minor cosmetic updates

3.11 Version 8.22

- New message UBX-RXM-RTCM
- New message UBX-CFG-REMFS

- New message UBX-NAV-HPPOSECEF
- New message UBX-NAV-HPPOSLLH
- Update of UBX-ACK/NAK: Bug fixes
- Update of UBX-CFG-TMODE3: Cosmetic UI improvements
- Update of UBX-ESF-STATUS: Speed flag now set
- Update of UBX-CFG-NMEA: Added high precision flag
- Update of UBX-MON-MSGPP: Cosmetic UI improvements
- Update of UBX-MON-SENIFF: Cosmetic UI improvements
- Update of UBX-NAV-SOL: Updated extraction of revision bits
- Update of UBX-NAV-PVT: Cosmetic UI improvements, updated extraction of revision bits
- Update of UBX-NAV-RELPOSNED: Reporting additional receiver information to u-center's database
- Update of UBX-CFG-ESFDWT: Cosmetic UI changes
- Update of UBX-CFG-ESFGWT: Cosmetic UI changes
- Update to UBX-NAV-ATT: Reporting additional receiver information to u-center's database
- UBX-CFG-HPGROV renamed to UBX-CFG-DGNSS, plus cosmetic UI changes
- New RTCM3 parser
- New option to reset to default colors in preference property pages
- New access tokens preferences property page
- Map view overhauled and upgraded to compensate for the loss of Google Earth view
- Added Google maps API key entry to access tokens property page
- Various minor cosmetic updates

3.12 Version 8.21

- Support for ADR4.00
- Support for HPG1.00
- Support for TIM1.10
- Support for UDR1.00
- New message UBX-CFG-HNR
- New message UBX-CFG-TMODE3
- New message UBX-NAV-RELPOSNED
- New message UBX-RXM-RLM
- Update of UBX-CFG-GNSS: Layout changes
- Update of UBX-CFG-MSG: RTCM messages 1005, 1077, and 1087 added
- Update of UBX-CFG-NAV5: Signal attenuation feature is public
- Update of UBX-CFG-NAVX5: Flag `useAdr` is public
- Update of UBX-CFG-PM2: Message version selector visible
- Update of UBX-CFG-PMS: Aggressive 2Hz option is public
- Update of UBX-CFG-PRT: RTCM3 added
- Update of UBX-CFG-SBAS: Flag `enable` and `maxSbas` marked deprecated for u-blox 8
- Update of UBX-CFG-TP5: Rename of `Invert pulse polarity` to `Rising Edge of TOS`
- Update of UBX-NAV-PVT: Flag `carrSoln` is public
- Added epoch detection options
- Added PC time option to console views
- Added DGNSS interface option
- Connected receiver can be recognized based on the boot screen
- Support of new signal IDs in various messages
- Support of legacy aiding (online and offline) with MGA servers

- Rename of carrier phase to carrier range
- Fixed warning when database is cleared for UBX-CFG-NMEA
- Fixed auto-poll for UBX-CFG-GEOFENCE
- Update of 2D and 3D accuracy data view: Allow smaller values to display increased accuracy
- Update of status bar: Tooltips, DGNSS and receiver power state information added
- General harmonization with Protocol Specification
- Log file player speed adaptations and clarification. Based on messages/second.
- Default file name changed for retrieved log file
- Update of tinyXML2 library to version bb4d246

3.13 Version 8.20

- Fix bug in USB alternate update method for firmware update with ROM 3.01

3.14 Version 8.19

- New message UBX-CFG-DYNSEED
- New message UBX-CFG-FIXSEED
- New message UBX-CFG-GEOFENCE
- New message UBX-NAV-EOE
- New message UBX-NAV-GEOFENCE
- New message UBX-NAV-TIMEGAL
- New message UBX-RXM-IMES
- New message UBX-RXM-RLM
- New message UBX-SEC-SIGN
- New message UBX-SEC-UNIQID
- Support of new message version for UBX-RXM-PMREQ
- Support of new message version for UBX-RXM-RAWX
- Support of new message version for UBX-RXM-SFRBX
- Add wrist model to UBX-CFG-NAV5
- Update constrains in UBX-CFG-RATE
- Add Galileo to UBX-CFG-TP5
- Add Galileo to UBX-MON-GNSS
- Add geofence pin to UBX-MON-HW
- Add spoofing detect state to UBX-NAV-STATUS
- Add unknown source of leap seconds to UBX-NAV-TIMELS
- Add wake up sources to UBX-RXM-PMREQ
- Support from ROM 3.01
- Remove of Google Earth view
- Support of legacy aiding in Multiple GNSS AssistNow Online
- Support of new GNSS in Multiple GNSS AssistNow
- u-center can now connect to Location and Sensor API of Windows 7 onwards
- Fix Google Earth Server functionality
- Using new code signing certificate
- Increase internal resolution of latitude and longitude
- Decouple the epoch detection for NAV and HNR messages
- Color selection in Preferences is now public
- Main window title now shows either connection name of log file name
- Enabled more than 2GB of memory to be used on 64 bit versions of Windows
- Update database of known firmwares

- Various cosmetic fixes (typos, unicode issues, user interface elements positions and sizes)
- Various stability fixes

3.15 Version 8.18

- Updates to UBX-CFG-DAT
- Updates to UBX-CFG-ESFGWT
- Updates to UBX-CFG-NAV5
- Updates to UBX-CFG-PM2
- Updates to UBX-CFG-RXM
- Updates to UBX-MGA messages
- Updates to UBX-NAV-PVT
- Updates to UBX-RXM-PMREQ
- Updates to UBX-RXM-RAWX
- Updates to UBX-TIM-SMEAS
- Fixed miscellaneous minor bugs
- Added auto scale feature on deviation map by double clicking in deviation map view
- Fixed issues with displaying COG in the Table View
- Message view's hex area not displayed by default
- Improvements in BeiDou support

3.16 Version 8.17

- Updates to UBX-CFG-GNSS
- Updates to UBX-CFG-ESFGWT
- Updates to UBX-ESF-STATUS
- Updates to UBX-MON-HW
- Updates to UBX-CFG-NAV5
- Updates to NMEA-PUBX
- Updates to UBX-INF
- Updates to UBX-RXM-RAW
- Updates to UBX-CFG-ANT
- Updates to Dump Receiver Diagnostics
- Improved Binary view window display speed
- Miscellaneous memory leak fixed
- u-center acting as a Google Earth server now fixed (unicode issue)
- Table, Chart and Histogram views now have improved property search facility

3.17 Version 8.16

- Sky View shows additional satellite systems (Glonass, Beidou, Galileo)
- Satellite names in the various views (and flags in the satellite view) are now correct

3.18 Version 8.15

- AssistNow Online fixed (reported wrong username/password)

3.19 Version 8.14

- Update of UBX-TIM-TOS handling: allow enabling/disabling
- Update of UBX-ESF-STATUS: add error status field
- Update of UBX-TIM-VCOCAL: make command "STOP" public

- Update of UBX-CFG-MSG list: matching protocol specification
- Update of UBX-CFG-RST: Allow "User Defined" option, make SFDR and TCT public
- Update of UBX-MON-EXCEPT
- Add keyboard shortcut for firmware update dialog (Ctrl-u)
- Add toolbar icon for firmware update dialog
- Add status text for "Sky View": azimuth and elevation
- Make configuration of antenna supervisor pins public
- Negative Course over Ground values can now plotted in the ChartView
- Google Earth view saves KML file as ASCII text
- Default name for exporting as KML file based on time and date
- Save GNSS configuration to file fixed
- Switch to UNICODE
- Update of shortcuts
- Update TotalPhase Cheetah driver to v3.08
- Rename of database entry "TTAG (from ITOW)" to iTOW (according to protocol specification)
- Fix of GPS time from UBX-NAV-TIMEBDS
- Tooltip delay set to 200ms
- Minor fixes

3.20 Version 8.13

- Support of messages for M8L products
- Update of graphs for UBX-ESF-MEAS
- Visual improvements when using several monitors
- Update of statistic view (search and sort function)
- Fix problem with empty entries in table view
- Add option to hide tree and HEX view
- Add File transfer dialog
- Update of deviation map
- Show IRNSS flags

3.21 Version 8.12

- Update UBX-CFG-PM2
- Update UBX-CFG-TXSLOT
- Update UBX-NAV-TIMEUTC
- Update UBX-TIM-TP
- Update UBX-TIM-TM2
- Update UBX-TIM-VCOCAL
- Update UBX-ESF-MON
- Update UBX-MON-EXCEPT
- Update UBX-MON-HW
- Add support for LEA-M8T messages and firmware
- Add support for UTC standard (NTSC)
- Add Qi to database
- Add more EKF fields to database
- Add 2D error ellipse to database
- Odometer fields are now public in database
- Improve speed for deleting database
- Workspace and view configuration format changed

- Fix mismatch between binary console and message view
- Fix problem when saving map view
- Add extra line in consoles to separate data packets
- Add tooltip for satellite level view
- Add direction indicator of messages
- Add possibility to filter message tree by protocol specification versions
- Fix possible memory leak problems

3.22 Version 8.11

- Update of UBX-CFG-SMGR
- Update of UBX-CFG-DOSC
- Update of UBX-CFG-SMGR
- Update of UBX-CFG-ESRC
- Update of UBX-CFG-TP5
- Update of UBX-NAV-STATUS
- Update of UBX-TIM-TOS
- Add UBX-MON-SMGR, UBX-TIM-SMEAS and UBX-TIM-FCHG to periodic poll messages
- Set UBX-CFG-DOSC to public
- Set UBX-CFG-ESRC to public
- Set UBX-CFG-SMGR to public
- Set UBX-MON-SMGR to public
- Set UBX-TIM-DOSC to public
- Set UBX-TIM-FCHG to public
- Set UBX-TIM-SMEAS to public
- Set UBX-TIM-TOS to public
- Set UBX-TIM-VCOCAL to public
- Set UBX-TIM-VCOFF to public
- Link to User's Guide in the help menu
- Fix problem with connection tool tip
- Fix problem with Google Earth plug-in when altitude = null
- Add option to align time-pulse to BeiDou or GLONASS time in UBX-CFG-TP5 (FTS product only)
- Fix problem with x-axis label
- Adding the option to continuously update the receiver with MGA data
- Adding pop-up message when connection to receiver fails
- Improve resolution of position and velocity data storage and plots
- Update of MGA online dialog
- NMEA strict 82 characters only applicable for UBX-CFG-NMEA-DATA2
- Fix possible memory leak problem for external interface devices

3.23 Version 8.10

- Update of UBX-MON-GNSS dialog
- Update of UBX-CFG-NAV5 dialog (added UTC standard configuration)
- Update of UBX-CFG-PRT dialog (renaming Pin to PIO)
- Set UBX-MGA-QZSS to public
- Set UBX-UPD-SOS to public
- Set UBX-LOG-RETRIEVE, UBX-LOG-RETRIEVEPOS,UBX-LOG-RETRIEVESTRING, UBX-LOG-RETRIEVEPOSEXTRA to public
- Rename of UBX-NAV-ODORESET to UBX-NAV-RESETO

- Make UDP and TCP client public again
- Fix localisation problem
- Fix problem when saving a log file from a network connection (invalid characters)
- Add menu option for AssistNow online and offline
- Add support for tool tips in message views
- Remove Antaris support

3.24 Version 8.01

- Update of UBX-CFG-NAVX5 dialog
- Update of UBX-NAV-AOPSTATUS dialog
- Update of UBX-NAV-HNR support
- Update of UBX-NAV-SAT dialog: ANO/AOP was switched
- Update of UBX-RXM-SFRBX dialog
- Support for UBX-EST-MON version 2
- Support for ROM 2.01
- Firmware update mechanism improvements (file system, new settings)
- Added Timemark 1 and 2 edge information and time pulse quantization error to public chart usage
- Update of network connection menu
- Added command line option to connect to receiver
- Fix problem with "Dump receiver diagnostic" in u-center
- Update of help dialog
- Update of database export to Google Maps HTML file (fix stack overflow in IE8)
- MGA dialog:
 - Button in u-center to request a token
- Support for 50/250bps IMES
- ADR updates:
 - Sensor-to-vehicle frame misalignment angle
 - Yaw misalignment angle updates

3.25 Version 8.00

- Add UBX-CFG-HNR and UBX-NAV-HNR
- Fix UBX-CFG-PRT dialog: make "Extended time-out" public
- Update of UBX-CFG-NMEA dialog
- Update of UBX-ESF-MEAS dialog
- Update of UBX-CFG-MSG dialog
- Update of NMEA-GSV
- NMEA-GSA proper handling of several messages (multi GNSS support)
- libMGA: minor fixes
- MGA dialog
 - Set smart flow control as default
 - Fix crash
 - Add UBX-MGA-INI-EOP to known messages
 - Make download button the default
- Add 3D button and support in Google Earth View
- Add zooming feature for Chart view (Ctrl + mouse wheel = zoom in/out, left mouse double click = fit)
- Reset TTFB when receiver is cold/warm/hot started

- Renaming

4 Known Limitations

4.1 Known Issues

- Enumerating the ports on a computer with many ports can take a long time
- Using the protocol filter with "silent" or "no receiver" results in an empty message tree

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