



# Topcon Receiver Utility (TRU)

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## Release Notes

**Version 2.3**

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## Version 2.3

### *Features and Changes*

- Motorola C24 (Verizon) modem support has been for HiPer II, GR-5 and MC-R3 receivers
- MEID Number display has been added for CDMA cellular modules (Motorola C24, Wavecom Q24, Wavecom Q26 Elite modems) installed on various Topcon receivers. You need MEID # to for data activation from Verizon\*
- Support for USB connection to Topcon receivers through PC Build has been added. Make sure to download and install latest USB drivers on your computer before trying to establish USB connections
- Topcon external radio TRL-35 support has been added
- CCX Creator for TRL-35 has been added in dealer and engineering modes
- Advanced minter options (FN key mode, Initial data collection dynamic code, Data recording auto-start) support has been added
- Uploading controller board firmware to the MC-R3 receiver has been added
- This version allows file recording at 20 Hz or more update rate
- Tracking of QZSS and L5 signals has been added
- Motorola G24 cell modem in the ArWest radio modem has been supported
- Added display support for FCS channels
- GNSS/Modem/Power board firmware can be uploaded from command line
- Added support for predefined sets of messages (output mode) for Serial/USB/TCP ports
- Added possibility to set up DION mode solutions
- Support for dealer configuration (DCF) file has been added in engineering mode

\*TRU 2.3 application is required to provide you MEID # for the C24 (Verizon) CDMA module installed on the device.

## Version 2.2

### *Features and Changes*

- Added support for GNSS firmware v3.5
  - Variable Fixed and Variable Float solution types are supported
  - DION solution types is supported
  - New Options are available:
    - Update rate (VDIF)
    - 3D-MC2 Support (DYNA)
    - USB Host (USBA)
    - Web Interface (\_WEB)
    - Radar Functionality (RADR)
    - Hiper AG Mode (HPAG)
    - DION Mode (POSM)
    - GPS L5 Tracking (G\_L5)
    - Vertical Accuracy Level (VVAL)
    - Horizontal Accuracy Level (HVAL)
    - Dual Antenna Tracking (DANT)
    - Heading Determination (HEAD)
  - Advanced modem communication (Engineering Mode):
    - Added an ability TRU should allow to show the current version of the active scripts/profiles
    - Added an ability to upload profiles with scripts to GNSS FW
- Added support for Topcon GNSS receiver GR-5
- BINEX messages have been added to the Receiver Message List
- Added the ability to reset the receiver to factory default settings
- Added a single report that includes the OAF and Info reports. Added a toggle to the Info report that says "Include OAF Report"
- Topcon Q2 Modem is supported (Only in Dealer mode)
- Motorola C24 modem is supported
- Added an ability to save all the receiver settings to file
- Added an ability to activate CDMA modems (Verizon)
- Modem HC-28J support added

## Version 2.1

### *Features and Changes*

- Modem parameters of FH-915+/Digital UHF/Satel are being shown according to the current mode (User/Dealer/Engineering).
- Added dependencies in GUI between different modem parameters.
- Added support of the internal GSM/CDMA modems in GRX1.
- Added ability to activate CDMA modems (Sprint) in GRX1.
- Added support of WM 6.5.3.
- Added support for SATELLINE-3AS-OEM11 Radio Board.
- Frequency table can be changed for the Satel modem.
- Added ability to downgrade the application registration to base level.
- All Digital UHF modem settings can be stored in CCX file (only in dealer mode).
- File Explorer now supports unformatted or locked memory cards.
- Added auto-detection mode for external modems.
- Added the descriptions of the logging messages for PC version.
- Auto-detection mode now works with Vario Guide modem.

## Version 2.0

### *Features and Changes*

- Customized dialog for the FREEWAVE modem
- Show the Error when select auto antenna at GRS-1
- Support new Satel FW 3.34
- Add support of Digital UHF CCX files
- Configure - Receiver Serial Ports now supported.
- Configure - Receiver Slots now supported.
- Configure - Internal Receiver Bluetooth
- Configure - Modems now supported.
- Configure - Power now supported.
- Added the ability to Send GRIL Commands
- Add File Manager functions
- Add an ability to activate CDMA modem in GRS-1 for Sprint operator
- Added more Tracking Options.
- Real-Time Logging
- Signal quality indicator for GRS-1
- Serialization for Dealer and Engineering modes.