

RELEASE NOTES

Trimble® Infrastructure GNSS Series Receivers

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Version 4.61
Revision B
August 2012



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Release Notice

This is the August 2012 release (Revision B) of the *Trimble Infrastructure GNSS Receivers Release Notes*. It applies to version 4.61 of the receiver firmware.

Product Warranty Information

For applicable product warranty information, please refer to the Warranty Card included with this Trimble product, or consult your Trimble reseller.

Notice to our European Union Customers

For product recycling instructions and more information, please go to www.trimble.com/ev.shtml.

Recycling in Europe: To recycle Trimble WEEE (Waste

Electrical and Electronic Equipment, products that run on

Electric power), call +31 497 53 24 30 and ask for the "WEEE Associate".

Or, mail a request for recycling instructions to:

Trimble Europe BV
c/o Menlo Worldwide Logistics
Meerheide 45
5521 DZ Eersel, NL



Introduction

These release notes describe the improvements made to the Trimble® NetR9™ Infrastructure series receiver. With this release, the receiver can use version 4.61 firmware.

This revision B corrects a typing error in revision A.

To use firmware version 4.61:

- You must have a valid firmware warranty. If necessary, contact your Trimble reseller to purchase a warranty.
- The receiver must have firmware dated March 2012 or later.

Before you upgrade the firmware, download and back up any files or configuration settings.

New features and changes

General

Improved RTK Engine operation with input of CMRx format with ephemeris records.

Data formats

- RTCM RTK version 2.3 updated to send message types 23 and 24 (reference position and antenna) throughout the broadcast.
- Bandwidth limiting feature corrected for CMR+™ and RTCM version 3 outputs.
- RT17/27 format now limits ephemeris output to one per epoch to reduce latency.
- BINEX now supports QZSS L1-SAIF output in streamed and logged data.
- BINEX TauN field updated in streaming and logged data for negative value.
- BINEX now uses the Glonass Almanac 2 bit health status message in streaming and logged data.
- BINEX 0x01-02 "A0" field now stores TauGPS. Previously, this value utilized TauC.
- Trimble BINEX version comment updated to "BNX2". VRS³Net™ software operators who utilize a BINEX decoder will require a software update.

Before performing this upgrade, contact Trimble for additional information.

Data logging

- RINEX version 3 now reports the correct future leap second date.
- Updated Hatanaka compression to correctly report C/No values after a missed measurement. Previously this could lead to incorrect data handling by third-party tools.
- Resolves rare occurrence of logged files containing missing blocks or corrupt dates.
- Resolves missing GPS L2E measurements in RINEX version 2.12 OBS files.

Tracking

- Additional channel allocation to Compass tracking to support future constellation expansion.
- General Compass tracking updates.
- Improved QZSS L1-SAIF and L1C tracking.

Networking

- Improved NTRIP Client handling during high CPU loads.
- Resolves data output recovery issue after Ethernet outage using a UDP Broadcast.

Web Interface and Front Panel

- Minor translations updates.
- Updates to the Mini-Web UI menu layout.
- New user-configurable option to suppress all front panel warning messages from appearing. Previously, with the front panel display disabled, warning messages would appear. The default setting is "OFF".

Upgrading the firmware

Make sure that the receiver firmware warranty date is March 2012 or later.

Use one of the following methods:

- WinFlash utility: Use the latest version that is available with the version 4.61 Web package.
- Receiver Web User Interface: Make sure that the receiver is already running firmware version 4.xx or later. Download and install the version 4.61 *.TIMG file.