

RELEASE NOTES

Trimble® Infrastructure GNSS Series Receivers

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Version 4.41
Revision A
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Release notice

This is the May 2011 release (Revision A) of the *Infrastructure GNSS Series Receivers Release Notes*. It applies to version 4.41 of the firmware.

Product warranty information

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

Introduction

These release notes describe the improvements made to the following Trimble® Infrastructure series receivers. With this release, the following receivers can use firmware version 4.41:

- NetR3
- NetR5™
- NetR8™
- NetR9™

To use firmware version 4.41, you must have a valid firmware warranty. To load this firmware, the receiver must have a firmware dated 18 April 2011 or later. If necessary, contact your Trimble reseller to purchase a warranty.

Before you upgrade the firmware, Trimble recommends that you download and back up any files that are on the receiver.

New features or changes

General

- The NetR9 Ti-3 receiver now supports station name configuration.
- When a receiver is updated to enable additional signal tracking with an option code, the enabled system/signal is set to "ON" by default.

Power

- Internal battery charger now charges up to 60 °C.
- You can now select when the receiver charges the internal battery:
 - When ON or OFF (default).
 - When OFF.
 - When ON.
 - Never.

***Note** – Charge internal batteries periodically to ensure correct battery operation.*

- User definable battery charging voltage:
 - Default (meaning automatic, which is the default)
 - Programmable (allows you to enter a value between 10.8 V - 15.0 V; the default value is 12.0 V)

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- The front panel display shows an "X" in the battery icon (internal battery not charging) when any of the following conditions are met. (The old code showed the "X" only when external voltage dropped below 10.8V).
 - POE is the only power source; a USB connection is present.
 - User has disabled all charging.
 - Charging is automatically disabled if the receiver is out of temperature range.
 - External power source does not have enough voltage to charge the internal battery (based on minimum charge voltage, if applicable).

Data formats

- TRIMCOMM™ commands updated to better handle port configuration commands.
- Additional TRIMCOMM reset commands now supported.
- Option to use the \$GP prefix when outputting NMEA GST strings.
- BINEX support for 0x7e-00 (Tilt Data).
- BINEX now outputs ephemeris data on the top of every GPS hour and upon every new connection to the BINEX stream.
- BINEX ephemeris records now output week numbers to match the time of clock parameters. Time of week values can now be negative. For VRS³Net software users who receive and process BINEX data, the change to the BINEX week number handling will require a software update.
Before you perform this upgrade, contact Trimble.
- DGPS RTCM messages now support the option to transmit Type 34 GLONASS records.

OmniSTAR

- OmniSTAR web page now shows SNR values.
- OmniSTAR configuration changes no longer force a satellite relock if using the same beam.
- New VBS library.

FTP

- Ability to specify offset in minutes from the time of file closing for the file to be pushed through FTP.
- Ability to define up to three FTP sites to push logged data to. Each logging session can be assigned one of the three individual FTP addresses.
- General FTP Push enhancements for improved stability.
- FTP supports use of LS and DIR commands to show only T02 files

Networking

- When using DHCP, the minimum MTU value is now 576.
- On the DDNS page, *Client Name* and *Username* fields become unavailable if security is enabled and the user is not logged in.

Data logging

When converting files to RINEX, the receiver now allows the *OBSERVER* / *AGENCY* fields to be set.

Web interface and front panel

- General translation updates to the front panel display.
- Updated Web UI translations now include Portuguese.
- Clone files updated to capture serial/TCP outputs and power controls.
- New email alert to notify if the receiver position solution type changes.
- Email alerts now support multiple recipients using a comma-separated list up to a maximum of 249 characters.
- If set, System Name is now included in email alerts.
- Now supports three NTRIP Clients ports.

Tracking

General SBAS improvements aid in satellites acquisition/reacquisition.

Updating the firmware

Use one of the following methods. In both cases, make sure that the receiver firmware warranty date is 18 April 2011 or later.

- WinFlash utility: Use the latest version that is available with the version 4.41 Web package.
- Receiver Web User Interface: Make sure that the receiver is already running firmware version 4.xx or later. Download and install the v4.41 *.TIMG file.