



# Trimble Infrastructure

## GNSS SERIES RECEIVERS

These release notes describe the latest improvements made to the Trimble® NetR9™ GNSS Infrastructure series receivers.

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### Introduction

These release notes describe the improvements made to the Trimble NetR9 Infrastructure series receivers.

With this release, these products can now use version 5.14 firmware.

**Note** – *Not all receivers support all features contained within this firmware release. The supported features will depend on the receiver model and options installed.*

To load and use firmware version 5.14, you must have a valid firmware warranty, dated 1 May 2015 or later. If necessary, contact your Trimble dealer to purchase a warranty.

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

### New Features and Changes

#### General

- ▶ Updated antenna libraries.
- ▶ Resolves an issue whereby a device running the Windows® 10 operating system and connected to a receiver via a USB 3.0 connection may not recognize the receiver.

#### Data formats

- ▶ Resolves delayed NMEA output issue when receiver is set to Synchronous mode.
- ▶ Improved geoid handling in NMEA data.

## Data logging

- ▶ Improved FTP Push routine to reduce risk of task getting hung on a single file.
- ▶ Improved memory handling while converting logged data files.
- ▶ Improved data logging to protect against very rare occurrence of dropped epochs.
- ▶ Resolves antenna height rounding error of 0.1 mm in RINEX files.
- ▶ Addresses issue whereby the data logging check box may not respond.
- ▶ Addresses malformed RINEX v2.11 PGM / RUN BY / DATE header record.
- ▶ RINEX now supports QZSS L1-SAIF observables.
- ▶ Resolves issue whereby RINEX v3.03 did not contain QZSS data.
- ▶ RINEX version 3.0x files:
  - Now include the GLONASS bias header record (GLONASS COD/PHS/BIS#).
  - Now adhere to the RINEX standard for header date format in observation files.
- ▶ RINEX version 3.03 header fields now contain SYS / PHASE SHIFT records.

## Tracking

- ▶ Updated list of RTX satellites and frequencies.
- ▶ Updated OmniSTAR® libraries.
- ▶ Improved handling of GLONASS time/roll overs.
- ▶ Improved handling of QZSS almanacs.
- ▶ Improved Beidou ephemeris decoding.
- ▶ Improved tracking, data handling, and reduced cycle slips caused by configuration changes.

## Networking and security

- ▶ Resolves rare occurrence whereby the receiver failed to obtain the correct IP address.
- ▶ The use of keys is now supported for DynDNS.com service.
- ▶ NTRIP Caster mountpoint format fields now correctly display the data format.

## Web interface and front panel

- ▶ Allows antenna height to be entered to 0.1 mm resolution.
- ▶ Improved memory stability.
- ▶ Improved memory usage.
- ▶ Resolves issue where the *Receiver Motion* setting may incorrectly display on the *Position* page.
- ▶ Receiver Web UI now correctly downloads firmware and displays the associated release notes when running the *FW Upgrade Check*.
- ▶ With this release, if the DNS Domain entry is left blank the interface will no longer display *undefined*.
- ▶ Resolves issue whereby email addresses entered with a semicolon could cause the web UI to hang.

## Upgrade Procedure

Make sure that the receiver firmware warranty date is 1 May 2015 or later.

To upgrade, use one of the following methods:

- ▶ WinFlash utility: Use the latest version that is available with the version 5.14 Web package.
- ▶ Receiver Web User Interface: Download and install the version 5.14 \*.TIMG file.

# Legal Notices

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## Release notice

This is the May 2016 release (Revision A) of the *Infrastructure GNSS Receivers Release Notes*. It applies to version 5.14 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](http://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.

