Release Notes

TRIMBLE FIELD SYSTEMS

September 2025

TRIMBLE GNSS FIRMWARE

Trimble GNSS firmware version 6.43 (September 2025)

This firmware version includes fixes and enhancements to the Trimble® GNSS receiver firmware.

Supported Trimble GNSS receiver models

The following table identifies the Trimble GNSS receivers supported by this revision. To upgrade your receiver's firmware, a current and valid receiver warranty is required. Your warranty must cover the time period beyond the first day of the month of the "Warranty Date".

Receiver Model	Firmware Version	Warranty Date
Trimble R980 Trimble R12i Trimble R12 Trimble R10-2 Trimble R780-2 Trimble R780 Trimble SPS986 Trimble R580 Trimble R750-2 / R750-2 MON Trimble R750 / R750 MON Trimble MPS566-2 Trimble MPS566 Fugro 9410-AUT-2 Fugro 9410-AUT Trimble BX992-SPS Trimble BX992-MS	6.43	May 2025

Note: This firmware release only supports Trimble ProPoint® receivers. Legacy receivers are not included in this GNSS firmware release.

Software compatibility

Trimble Access field software

For best results, users should upgrade to Trimble Access™ field software version 2025.10 (2017.24 for legacy controllers) or later when using Trimble GNSS firmware version 6.43.

Trimble FieldLink field software

For best results, users should upgrade to Trimble FieldLink field software version 2025.1 or later when using Trimble GNSS firmware version 6.43.

Trimble Siteworks Software

The current released version of Trimble Siteworks Software version 1.80 is compatible with Trimble GNSS firmware version 5.68/6.28 only. Trimble GNSS firmware version 6.43 has not yet been fully validated for use with Siteworks v1.80. Trimble therefore cannot guarantee the performance of GNSS receivers using firmware version 6.43 with the currently released versions of Trimble Siteworks Software. Please refer to the most recent Siteworks release notes for the currently supported GNSS firmware versions before upgrading.

Trimble TerraFlex field software

For best results, users should upgrade to Trimble TerraFlex® field software version 2025.24 or later when using Trimble GNSS firmware version 6.43.

Trimble Mobile Manager

For best results, users should upgrade to Trimble Mobile Manager version 2025.13 or later when using Trimble GNSS firmware version 6.43.

Trimble 4D Control software

The current released version of Trimble 4D Control (T4D) software v6.6 is compatible with Trimble GNSS firmware versions up to 6.40. GNSS Firmware version 6.43 has not yet been fully validated for use with T4D v6.6. Trimble therefore cannot guarantee the performance of GNSS receivers using firmware version 6.43 with the currently released version of T4D.

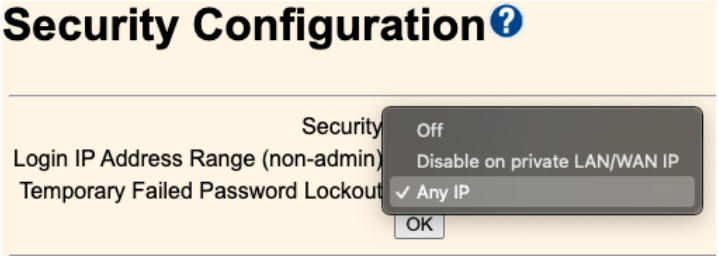
New cybersecurity enhancements for Trimble ProPoint receivers

Trimble GNSS firmware version 6.43 includes a number of enhancements and default settings changes related to cybersecurity. Whether a receiver was activated before or after the release of Trimble GNSS firmware version 6.43 determines if these enhancements and default setting changes will be applied automatically.

Users should carefully review these changes for any possible impacts to their workflows and take appropriate action to avoid disruptions.

Temporary failed password lockout

After 5 failed login attempts for a given account within a 10 minute window, that account will be locked out of the receiver WebUI for 10 minutes. Users can choose to turn this feature off, disable for IP client addresses within a private LAN/WAN, or enable for all IP client addresses by selecting the appropriate option for "Temporary Failed Password Lockout" from the dropdown list (*Security* / *Configuration*).



WiFi access point encryption

WPA2-AES is now the only available encryption type for the WiFi access point. In addition, the default password (encryption key) has changed from "acbcdeabcde" to the device serial number. Users should change the WiFi access point password from the default to a more secure password when configuring the receiver for the first time.

HTTP Secure

For receivers activated for the first time after the release of Trimble GNSS firmware version 6.43, HTTPS will be enabled and HTTP disabled by default. To access the receiver WebUI when connected to the WiFi access point, users will need to enter **https://**192.168.142.1 in their web browser's address bar.

For receivers activated for the first time prior to the release of Trimble GNSS firmware version 6.43, users may have to manually disable HTTP and enable HTTPS (*Network Configuration* / *HTTP*) or else clear all receiver settings to change the HTTP server configuration defaults.

Install new firmware via WebUI

For receivers activated for the first time after the release of Trimble GNSS firmware version 6.43, firmware installation via the WebUI is disabled by default. Users may manually enable firmware installation by selecting "Allow New Firmware To Be Installed" (*Firmware* / *Install*).

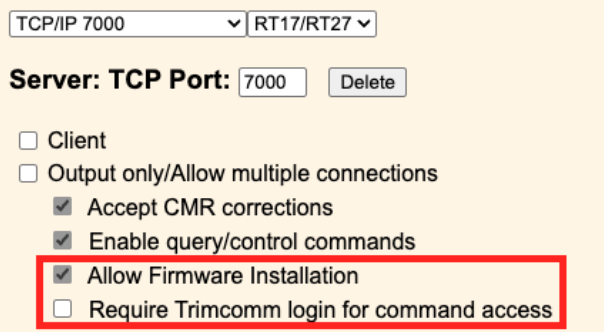
TCP/IP ports

For receivers activated for the first time after the release of Trimble GNSS firmware version 6.43, TCP/IP ports 5017, 5018, 28001, and 28002 have been removed. Users will need to manually create new ports for TCP/IP connections.

Note: Existing TCP/IP port configurations will not be deleted or modified by installing Trimble GNSS firmware version 6.43.

Active control for Trimble Pivot Platform and Trimble 4D Control

For receivers activated for the first time after the release of Trimble GNSS firmware version 6.43, active control for Trimble Pivot Platform and Trimble 4D Control software is disabled by default. To enable active control, users will need to disable "Require Trimcomm login for command access" when creating an RT27 output stream. Users will also need to enable "Allow Firmware Installation" if installing firmware remotely using active control.



Note: The "Require Trimcomm login for common access" and "Allow Firmware Installation" controls are only visible when the "Enable query/control commands" control is enabled.

Bluetooth pairing

For receivers activated for the first time after the release of Trimble GNSS firmware version 6.43, Bluetooth legacy pairing has been disabled and the use of PIN codes is no longer supported.

Secure File Transfer Protocol

SFTP is now the default transfer mode for the FTP Push feature (*Data Logging* / *FTP Push*).

For receivers activated for the first time prior to the release of Trimble GNSS firmware version 6.43, users may have to manually set the FTP Push transfer mode to SFTP or else clear all receiver settings to change the default transfer more to SFTP.

Zeroconf

For receivers activated for the first time after the release of Trimble GNSS firmware version 6.43, Zeroconf service discovery (mDNS/DNS-SD) is now disabled by default (*Network Configuration* / *Zeroconf/UPnP*). However, some users may have to manually disable Zeroconf service discovery or else clear all receiver settings to apply the new default setting.

Bug fixes

Description	Type	Supported Receiver Models
Addressed issues which occurred when starting a survey with OmniStar	Bug Fix	Trimble R980
Fixed UPD connection problems after receiver reboots	Bug Fix	Trimble R750
Corrected R750-2 receiver ID problems with RTCM streams	Bug Fix	Trimble R750-2
Fixed position monitoring issues where the RTK engine and receiver motion would both be in static mode. The fix now gives the receiver the correct kinematic mode with the RTK engine when using VRS corrections for position monitoring.	Bug Fix	Trimble R980

***Note*:** *Before updating, download and back up any data files on the receiver.*

Update to TIP tilt compensation performance specification

Trimble GNSS firmware version 6.43 includes enhancements to Trimble TIP™ tilt compensation technology for supported receivers. As a result of these enhancements, the horizontal positioning performance specification for TIP compensated surveying has been improved.

- New TIP compensated surveying horizontal positioning performance specification:

RTK/RTX precision + 3 mm + 0.15 mm/° tilt (up to 40°) RMS

- Requirements to achieve specified performance by receiver model:

Receiver Model	Minimum Firmware Version	Additional Requirements
Trimble R980 Trimble R12i	6.43	None
Trimble R780-2 Trimble R780 Trimble SPS986	6.43	Pole Bias Adjustment must be performed No use of Quick Release adapter

Note: Proper surveying techniques should be followed to reduce multipath error and maintain a good line of sight to the sky for satellite tracking. At greater than 40° of tilt, horizontal position precision at the rod tip may decrease more than specified.

New Trimble RTX Fast Coverage for the Republic of Korea (South Korea)

Trimble has announced a new regional area network providing CenterPoint® RTX Fast services for the Republic of Korea. In this area, regional atmospheric models to mitigate ionospheric and tropospheric biases are available from a dense network of Trimble RTX® reference stations via the internet on the RTXKR mount point. L-band users will continue to utilize the RTX Pacific-Asia (RTXPA) beam with global ionospheric models.

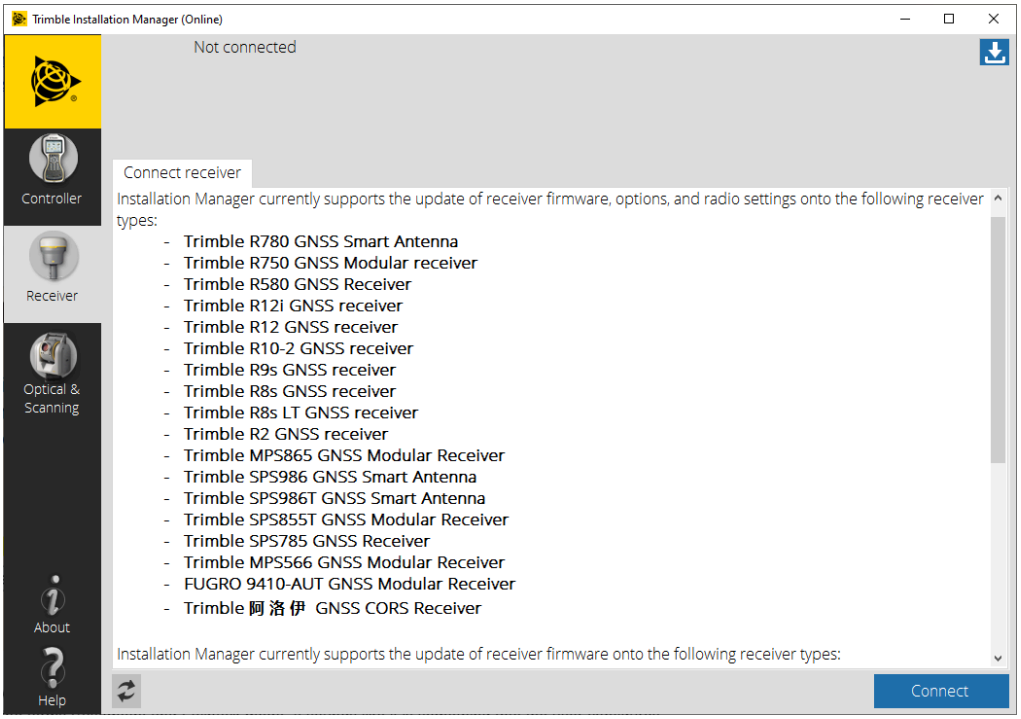
Trimble Installation Manager

Trimble Installation Manager is a free download and can be found here: install.trimble.com

The primary Trimble Installation Manager functions for GNSS receivers are:

- Warranty Activation
- Option Loading
- Radio Configuration
- Firmware Installation

After installing, launch Trimble Installation Manager, connect the receiver with the appropriate data cable to your computer and click on Connect.



Trimble Installation Manager will display receiver-specific information. Select the firmware version you want to install from the selection menu in the top right corner. Click on **Install** to start the installation process.

For more information

For more information, contact your local Trimble Distribution Partner.