



Trimble Advanced Positioning

ALLOY AND NETR9 REFERENCE RECEIVERS 5.44

FIRMWARE RELEASE

These release notes describe the latest improvements made to the Trimble® Alloy™ and NetR9™ reference receivers.

- [Introduction](#)
- [Alloy and NetR9 common features and changes](#)
- [Feature comparison table](#)
- [Upgrade procedure](#)
- [Legal notices](#)

Introduction

These release notes describe version 5.44 firmware improvements for the Trimble Alloy and NetR9 reference receivers. All Alloy receivers are entitled to firmware version 5.44. The NetR9 receiver must have a minimum firmware date of 1 November 2018 or later to use firmware version 5.44. If necessary, contact your Trimble distribution partner to purchase a NetR9 extended warranty. Before you perform a firmware upgrade, ensure that you download and back up any files or configuration settings.

Version: 5.44

Date: December 2019

Alloy and NetR9 common features and changes

Enhanced Security

From firmware version 5.44 or later if the Enhanced Security option is installed, the first time you access the receiver web interface, you need to perform additional steps to set up a new password for the 'admin' login. You will need to use a combination of upper and lowercase letters, numbers, and punctuation in order to obtain a 'medium' or 'strong' password; a 'weak' password will be rejected. After verifying your new password, click **Update**.

Initialize Security 

A Medium or Strong password is required. Increasing length, using uncommon words, and mixing upper/lower case, numbers, and punctuation increase password strength.

User Name:

Old Password: 

New Password: 

Verify New Password: 

Enhanced Security is enabled on this device.

- This enables a number of security enhancements, including improved login security. You must set at least a 'medium' strength password for the 'admin' account at this time.
- After completing initialization, you may adjust the security settings on the Security / Configuration page.

After creating the new password, the **Wi-Fi Access Point** screen will appear, and the receiver will ask you to enable the Wi-Fi access point and reconfigure options if applicable. By default, the encryption type is "Open," i.e. no encryption. You can select an encryption option from the list and provide a security key, or else leave the encryption open. You also have the option not to broadcast the SSID (the Wi-Fi network name), which will prevent other devices from detecting your receiver's Wi-Fi access point.

Access Point Configuration 

Note: Best practice is to use the highest level of encryption and a long key while ensuring this configuration is compatible with other system components.

Enable the Wi-Fi Access Point:

SSID [1 to 32 characters]

Encryption Type

WPA2 Encryption Type

Encryption Key 

Broadcast SSID

Show advanced settings

NOTE: If the Wi-Fi access point security settings are changed, existing client connections need to be updated.

When adding a new user, you must follow the new password criteria.

Security Configuration ?

Security: Enabled

Limit NTRIP Caster Connections: Disabled

Login IP Address Range (non-admin): Any IP

Delete?	User Name	Receiver Config	File Download	File Delete	Edit User	NTripCaster
<input type="checkbox"/>	admin	<input checked="" type="checkbox"/>				

Add User

A Medium or Strong password is required. Increasing length, using uncommon words, and mixing upper/lower case, numbers, and punctuation increase password strength.

User Name:

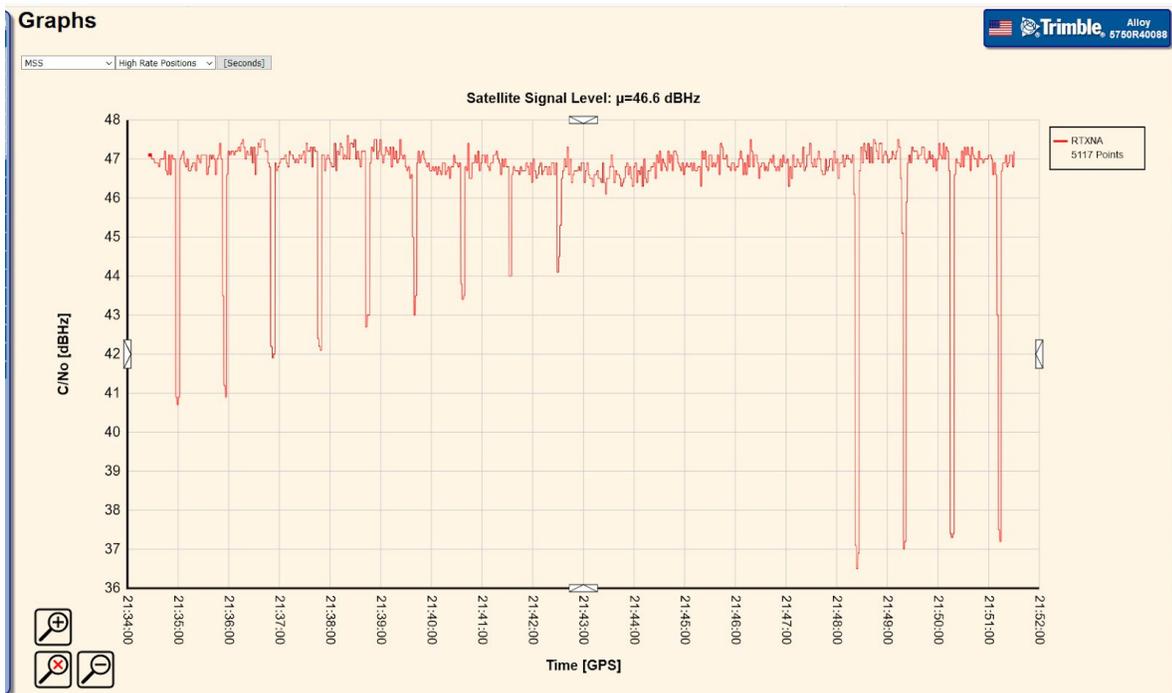
Password:

Verify Password:

Receiver Config	File Download	File Delete	Edit User	NTripCaster
<input type="checkbox"/>				

Improvements

Updated and fixed display issues with the MSS graph in the receiver web interface.



Feature comparison table

Enhanced Security	Alloy	NetR9
Enhanced Security logins	Y	Y
Improvements		
MSS Graph Updates	Y	Y

Note: All firmware 5.44 updates are available for both the Trimble Alloy and NetR9 receivers.

Upgrade procedure

Before upgrading the firmware, please back up and save the receiver's configuration.

For the NetR9 receiver, ensure that the receiver firmware warranty date is 1 November 2018 or later. The Alloy receiver has lifetime firmware upgrades.

To upgrade, use one of the following methods:

- If using the WinFlash utility: Use the latest version that is available with the version 5.44 Web package.
- Receiver Web Interface: Download and install the version 5.44 *.TIMG file. The firmware files are located on the Trimble Alloy and Trimble NetR9 web pages under the download section. Please see the links below.

Trimble Alloy - <https://www.trimble.com/Real-Time-Networks/Trimble-Alloy.aspx>

Trimble NetR9 - <https://www.trimble.com/Real-Time-Networks/Trimble-NetR9.aspx>

Legal notices

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Release notice

This is the December 2019 release (Revision A) of the Release Notes. It applies to version 5.44 of the Alloy and NetR9 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.