Configuring Trimble NetR9 Geospatial For New Frequency and Baud Rate

The following instructions will instruct you how to change the frequency and baud on your Trimble NetR9 Geospatial. To determine what new frequency and baud rate should be used in your region, please refer to www.trimble.com/sat.

Changing the Frequency and Baud Rate for RTX on the NetR9 Geospatial

The following set of instructions will instruct you how to change the frequency on your Trimble NetR9 Geospatial.

You can change the frequency and baud rate for tracking the Trimble RTX satellite by using the web user interface (WebUI).

Connecting to the web user interface (WebUI) of the receiver

1. Connect the NetR9 Geospatial to a PC using an Ethernet cable.
2. Once the receiver is connected to the computer via Ethernet, an IP address will appear on the front panel of the receiver. If the front panel is displaying other information, press either the up or down arrows on the front panel to scroll through different options until an IP address is displayed.
3. On the computer, open up any web browser and type in the IP address from step (2).
4. If the Web UI asks for credentials, the default username is “admin” and the default password is “password”.

Note: If there are any issues with step (3), make sure all other network connections are turned off or disconnected; this includes disconnecting or turning off WiFi.
Changing the frequency and baud rate

1. Connect to the WebUI
2. Navigate to the OmniSTAR→Configuration page
3. Confirm the following settings
   a. Preferred Source of Data: External
   b. External OmniSTAR Data: Auto
   c. Internal OmniSTAR Demodulator: RTX
   d. SV name: Custom
   e. Max Data Outage: 90 Sec
4. Enter the new satellites settings for your region
   a. Enter the new frequency in the Frequency [Mhz] field
   b. Enter the new baud rate in the Bit Rate [Hz] field
5. Click OK
Changing the frequency and baud rate through the Trimble Access field software

1. Connect to the receiver
   a. Navigate to Settings → Bluetooth and select the appropriate receiver under Connect to GNSS rover
   b. Click Accept

2. Start an RTX survey
   a. From the General Survey main menu, click Measure
b. Select an RTX Survey Style

c. Click Measure points
3. Select the Satellite icon

4. Select **Options**
5. Select **Custom** from the dropdown menu

6. Enter the new satellites settings for your region
   a. Enter the new frequency in the **Frequency** field
   b. Enter the new baud rate in the **Bit Rate** field
7. Click **Enter**, and then **Accept**
Changing the Frequency and Baud Rate for OmniSTAR on the NetR9 Geospatial

The following set of instructions will instruct you how to change the frequency on your Trimble NetR9 Geospatial.

You can change the frequency and baud rate for tracking the OmniSTAR satellite by using either the web user interface (WebUI) or the front panel of the receiver.

Connecting to the web user interface (WebUI) of the receiver

1. Connect the NetR9 Geospatial to a PC using an Ethernet cable.
2. Once the receiver is connected to the computer via Ethernet, an IP address will appear on the front panel of the receiver. If the front panel is displaying other information, press either the up or down arrows on the front panel to scroll through different options until an IP address is displayed.
3. On the computer, open up any web browser and type in the IP address from step (2).
4. If the Web UI asks for credentials, the default username is “admin” and the default password is “password”.

Note: If there are any issues with step (3), make sure all other network connections are turned off or disconnected; this includes disconnecting or turning off WiFi.

Changing the frequency and baud rate through the webUI

1. Connect to the WebUI
2. Navigate to the OmniSTAR → Configuration page
3. Confirm the following settings
   a. **Preferred Source of Data**: External
   b. **External OmniSTAR Data**: Auto
   c. **Internal OmniSTAR Demodulator**: Auto
   d. **SV name**: Custom
Changing the frequency and baud rate through the front panel of the receiver

1. From the main screen press the Enter key once to access the **Operation Mode** screen
2. Press the Down Arrow key until **OmniSTAR Config** is selected
3. Press the Enter key until the **Satellite screen** is shown
4. Press the Down Arrow key until **Manual/XXXX** is shown, where XXXX can be any satellite name
5. Press the Enter key to enter the **Manual Sv** screen
6. Press the Down Arrow key until **Custom** is shown
7. Press the Enter key until the **Freq** screen is shown
8. Use the Right Arrow and Left Arrow keys to move the cursor and select a digit. Use the Up Arrow and Down Arrow keys to change the digits to the correct Frequency for your area
9. Press Enter key once to set the Frequency, and once more to get to the **Bit Rate** screen
10. Use the Right Arrow and Left Arrow keys to move the cursor and select a digit. Use the Up Arrow and Down Arrow keys to change the digits to the correct baud rate (bit rate) for your area
11. Press Enter until you return to the main screen

**Max Data Outage:** 90 Sec

4. Enter the new satellites settings for your region
   a. Enter the new frequency in the **Frequency [Mhz]** field
   b. Enter the new baud rate in the **Bit Rate [Hz]** field
5. Click OK
Changing the Frequency and Baud Rate for xFill on the NetR9 Geospatial
Trimble xFill utilizes the same satellite beams as Trimble RTX; you can follow the same directions presented in Changing the Frequency and Baud Rate for RTX and xFill will automatically use the new satellite beam settings.

Verifying Correct Operation for Trimble RTX
Once you have reconfigured your receiver to the correct new satellite settings for your region, you can confirm that you are receiving the signal by following the steps below.

Verification through the webUI
1. Make sure the antenna connected to the receiver is outside with a clear and open view of the sky
2. Connect to the WebUI
3. Navigate to the OmniSTAR→Summary page
4. The Mode field should display Tracking

Verification through the Trimble Access field software
1. Make sure the antenna connected to the receiver is outside with a clear and open view of the sky
2. Connect to the receiver
   a. Navigate to Settings→Bluetooth and select the appropriate receiver under Connect to GNSS rover
   b. Click Accept
3. Start an RTX survey
   a. From the **General Survey** main menu, click **Measure**
   
      ![Image of the General Survey main menu]

   b. Select an RTX Survey Style

      ![Image of the Job: Test screen]

      Options: Jobs, Key in, Cogo, Measure, Stakeout, Instrument

      Status: No survey PDOP: 1.8
c. Click Measure points

4. Select the Satellite icon
5. The **Solution type** will display **RTX**

Verifying Correct Operation for OmniSTAR

Once you have reconfigured your receiver to the correct new satellite settings for your region, you can confirm that you are receiving the signal by following the steps below.
Verification through the webUI

1. Make sure the antenna connected to the receiver is outside with a clear and open view of the sky
2. Connect to the WebUI
3. Navigate to the OmniSTAR→Summary page
4. The Mode field should display Tracking

Verification through the Trimble Access field software

1. Make sure the antenna connected to the receiver is outside with a clear and open view of the sky
2. Connect to the receiver
   a. Navigate to Settings→Bluetooth and select the appropriate receiver under Connect to GNSS rover
   b. Click Accept
3. Start a OmniSTAR survey
   a. From the **General Survey** main menu, click **Measure**

   b. Select an OmniSTAR Survey Style
c. Click Measure points

4. Click on Esc, and click Continue to start an OmniSTAR survey
5. Click Continue

Waiting for radio link

Cancel Survey, or continue and start OmniSTAR without waiting for RTK

6. Select the Satellite icon
7. The **System** will display **OmniSTAR**

Correction age: **2.6s**

Correction satellite name: ?
For Additional Assistance
If you need additional assistance, please contact your regional Customer Care team.

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