SUPPORT BULLETIN
Positioning Services

Configuring Trimble R2 For New Frequency and Baud Rate
The following instructions will instruct you how to change the frequency and baud on your Trimble R2. To determine what new frequency and baud rate should be used in your region, please refer to www.trimble.com/sat.

Note that the images in this document refer to the R10 receiver, but the instructions and user interface are the same.

Changing the Frequency and Baud Rate for RTX on the Trimble R2
The following set of instructions will instruct you how to change the frequency on your Trimble R2.

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

Connecting to the web user interface (WebUI) of the receiver
1. Make sure the receiver is on and in close proximity to your PC.
2. Connect to the receiver via WiFi – it should be listed as Trimble GNSS XXXX, where XXXX is the last 4 digits of the receiver’s serial number.
3. Once connected to the GNSS receiver, open any modern web browser, such as Google Chrome, and type in http://192.168.142.1
   a. If you are prompted for login credentials, the default username is ‘admin’ and the default password is ‘password’
Note: If the R2 is not listed under WiFi connections, hold down the power button for 30 seconds, until you see the light on the front panel flash, and then release the power button. This will reset the R2 receiver to default settings, which will turn WiFi on again.

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: 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**

   ![Job: Test Menu](image)

   - No survey PDOP:1.3

   ![Measure Menu](image)

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

3. Select the Satellite icon
4. Select **Options**

![RTX status](image1)

- Solution type: **Autonomous**
- Converged: ?
- Correction age: **Waiting for RTX**

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

![Configure](image2)

- Correction satellite name: **Custom**
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

![Configure](image)

7. Click **Enter**, and then **Accept**

**Changing the Frequency and Baud Rate for OmniSTAR on the Trimble R2**

The following set of instructions will instruct you how to change the frequency on your Trimble R2.

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

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

1. Make sure the receiver is on and in close proximity to your PC.
2. Connect to the receiver via WiFi – it should be listed as Trimble GNSS XXXX, where XXXX is the last 4 digits of the receiver’s serial number.
3. Once connected to the GNSS receiver, open any modern web browser, such as Google Chrome, and type in [http://192.168.142.1](http://192.168.142.1)
   a. If you are prompted for login credentials, the default username is ‘admin’ and the default password is ‘password’
Note: If the R2 is not listed under WiFi connections, hold down the power button for 30 seconds, until you see the light on the front panel flash, and then release the power button. This will reset the R2 receiver to default settings, which will turn WiFi on again.

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
   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
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 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 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 General Survey main menu]

   b. Select an RTX Survey Style

   ![Image of Measure screen with RTX selected]
c. Click Measure points

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

![RTX status screen]

**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 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 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

   ![Measure screen](image)

   b. Select an OmniSTAR Survey Style

   ![Measure styles screen](image)
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**

- **System:** OmniSTAR
- **Correction age:** 6.0s
- **Correction satellite name:** ?

**SBAS status**

- **RTK:** Omni VBS H:0.341m V:0.291m
For Additional Assistance
If you need additional assistance, please contact your regional Customer Care team.

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