

SUPPORT BULLETIN

Positioning Services

Configuring Trimble BD982/BX982 For New Frequency and Baud Rate

The following instructions will instruct you how to change the frequency and baud rate on your Trimble BD982/BX982 receiver. 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 Trimble BD982/BX982

The following set of instructions will instruct you how to change the frequency on your Trimble BD982/BX982.

You can change the frequency and baud rate for tracking the Trimble RTX satellite by using either the web user interface (WebUI) or the BD9XX interface protocol.

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

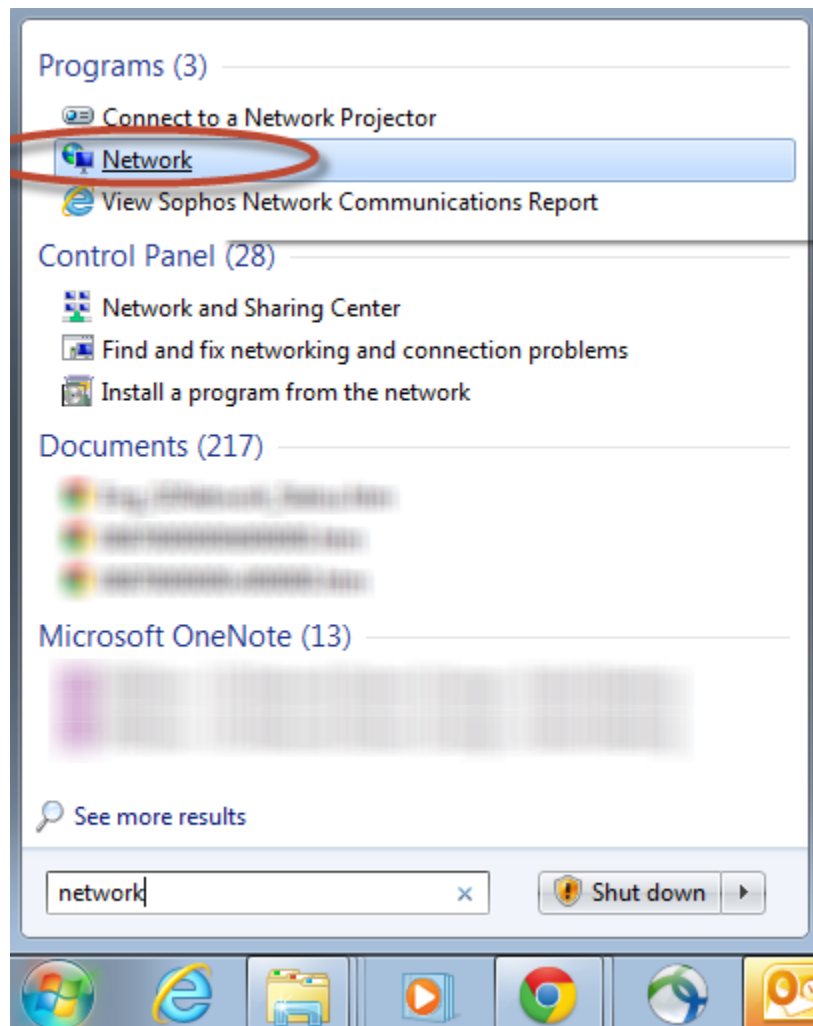
1. Connect the Trimble BD982/BX982 to a PC using an Ethernet cable.

This document is for informational purposes only and is not a legally binding agreement or offer. Trimble makes no warranties and assumes no obligations or liabilities hereunder.

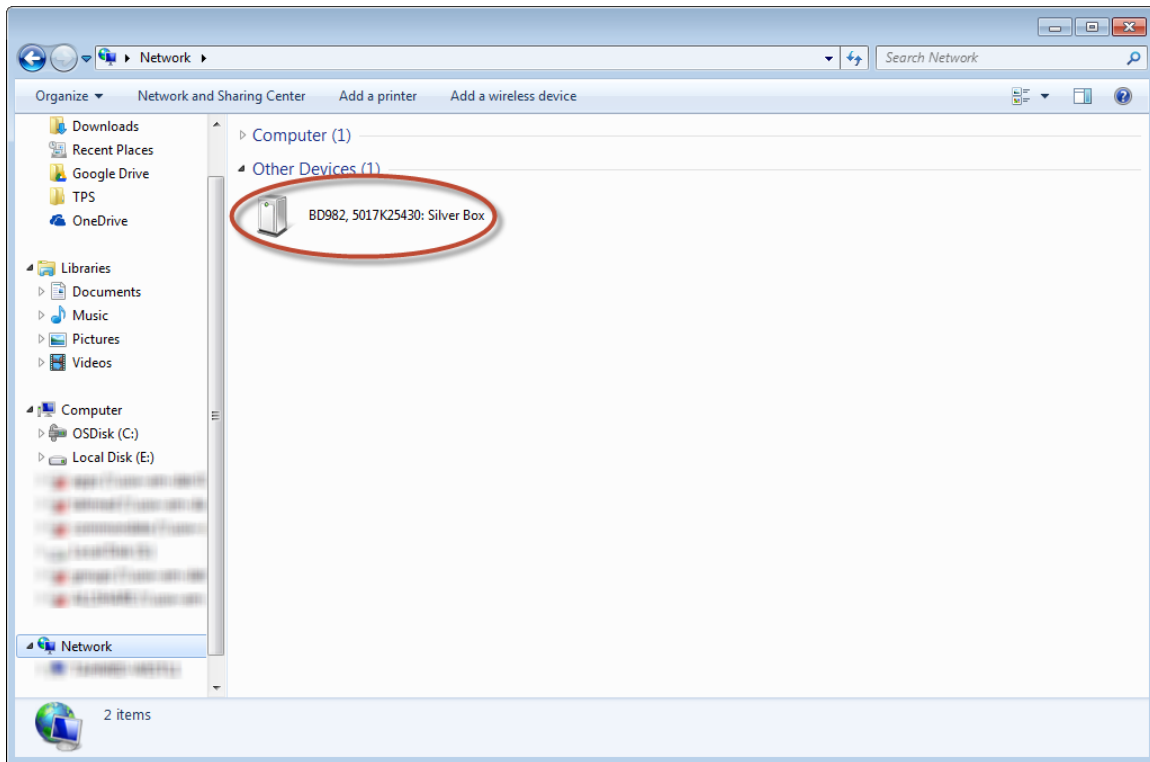
Trimble Navigation Limited, Positioning Services Division, 10368 Westmoor Drive, Westminster, CO 80021, USA

© 2015, Trimble Navigation Limited. All rights reserved. Trimble, the Globe & Triangle logo, OmniSTAR, and CenterPoint are trademarks of Trimble Navigation Limited, registered in the United States and in other countries. RangePoint is a/are trademark/trademarks of Trimble Navigation Limited. All other trademarks are the property of their respective owners.

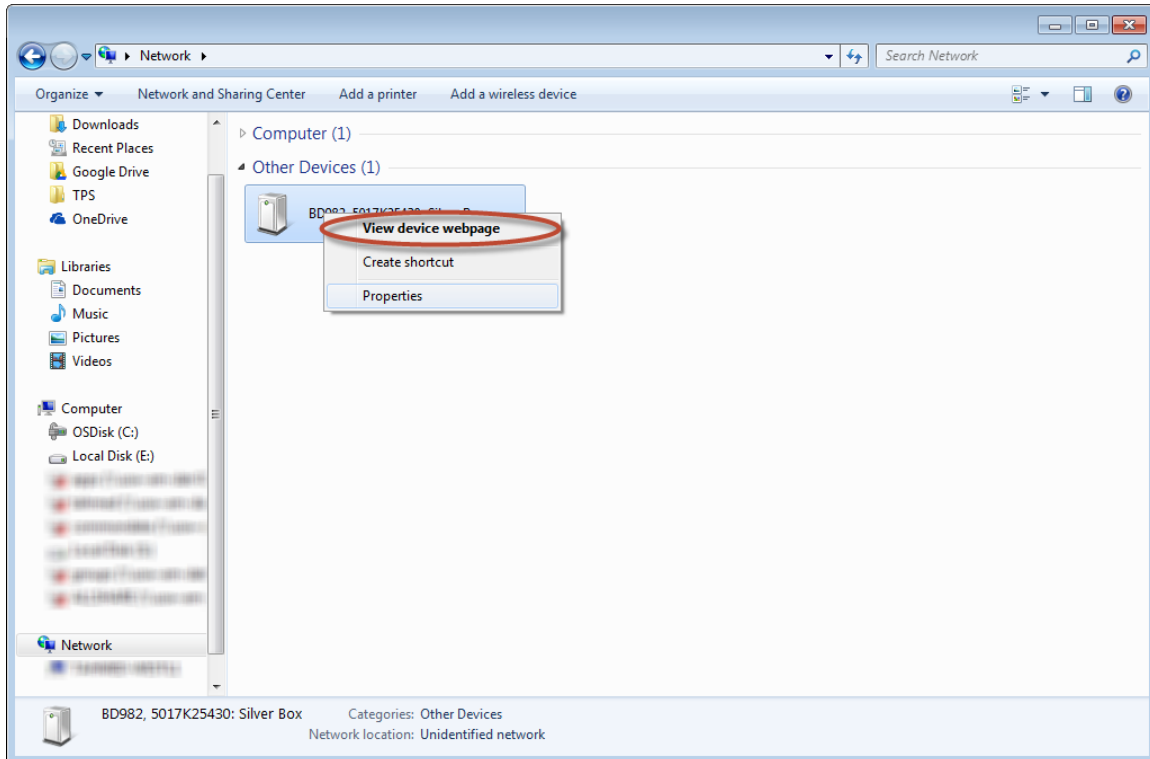
2. Open the **Network** folder in Windows Explorer. You can find this by searching for 'network' from the start menu.



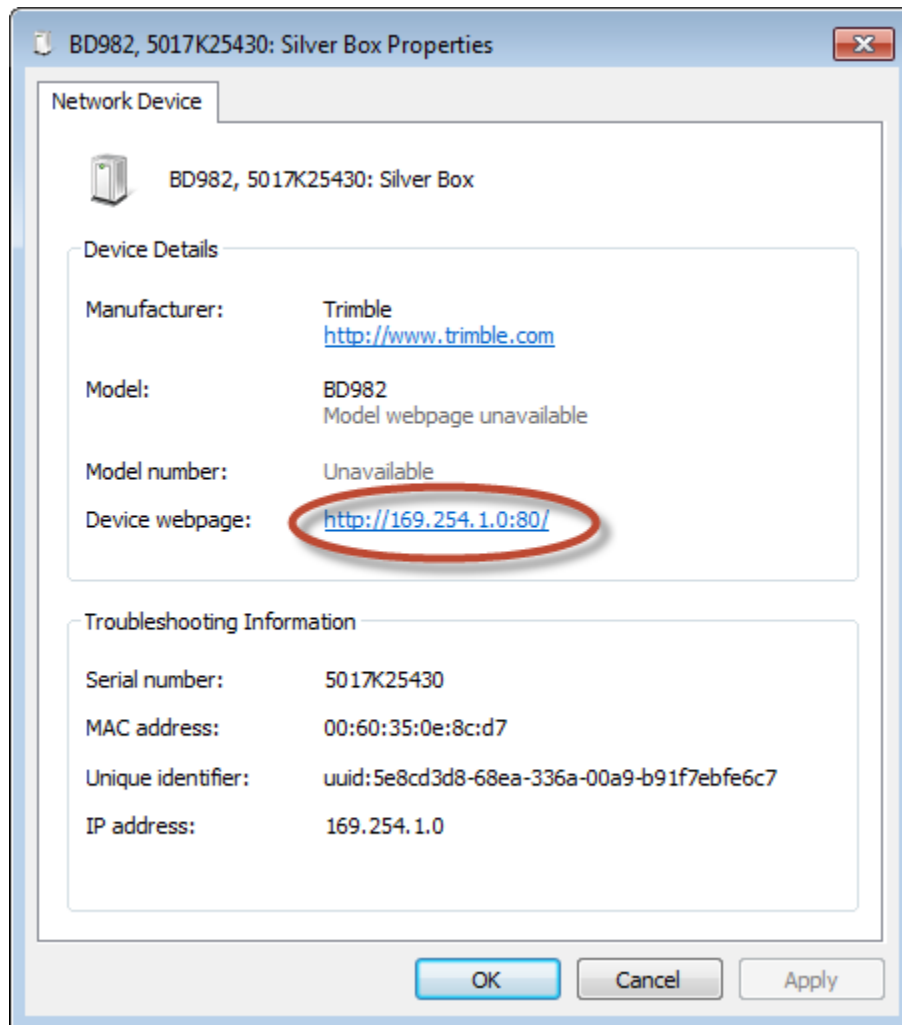
3. Your BD982/BX982 should appear under **Other Devices**



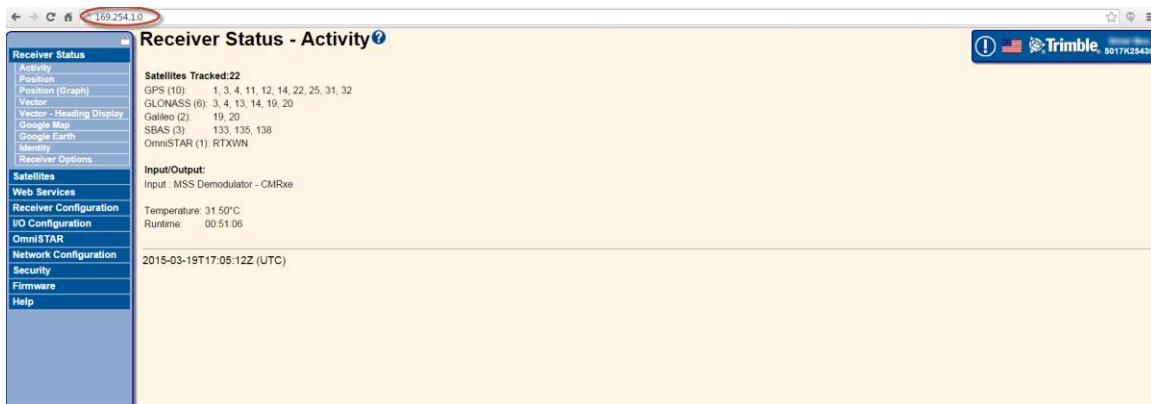
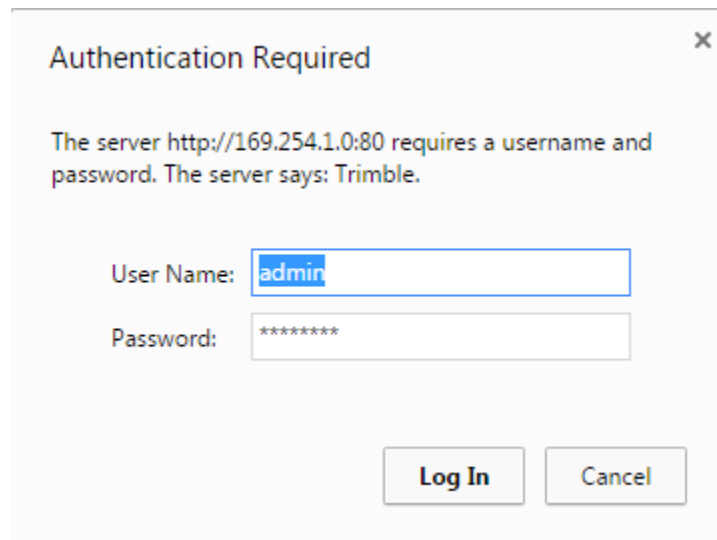
4. You can open up the web user interface through one of the following methods:
 - a. Double-click the BD982/BX982 icon
 - b. Right-click the BD982/BX982 icon and click on **View device webpage**



- c. Right-click the BD982/BX982 icon and click on **Properties**. From the **Properties** dialog, click on the **Device webpage** url. You can also copy and paste this url into any modern web browser.



- If the Web UI asks for credentials, the default username is “admin” and the default password is “password”.

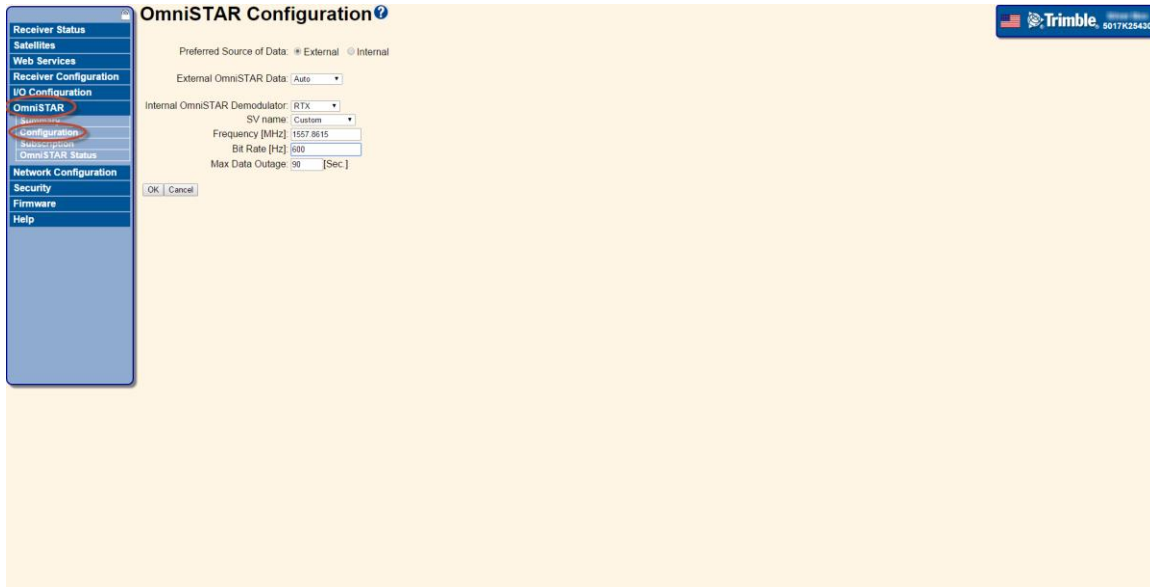


Note: If there are any issues with step (3), make sure all other network connections are turned off or disconnected; this includes disconnecting or turning off WiFi.

Changing the frequency and baud rate

- Connect to the WebUI
- Navigate to the **OmniSTAR**→**Configuration** page
- Confirm the following settings
 - Preferred Source of Data:** External
 - External OmniSTAR Data:** Auto
 - Internal OmniSTAR Demodulator:** RTX
 - 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 use of Trimcomm and the BD9XX interface protocol

Please contact your local Trimble InTech representative for more information.

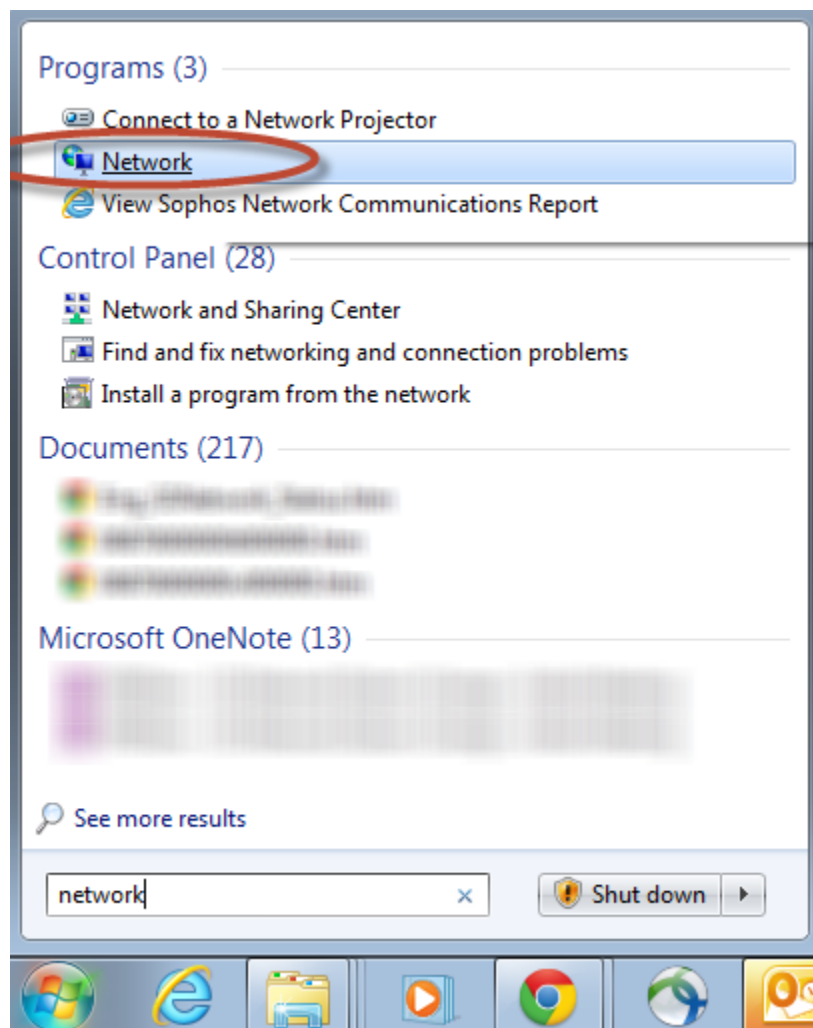
Changing the Frequency and Baud Rate for OmniSTAR on the Trimble BD982/BX982

The following set of instructions will instruct you how to change the frequency on your Trimble BD982/BX982.

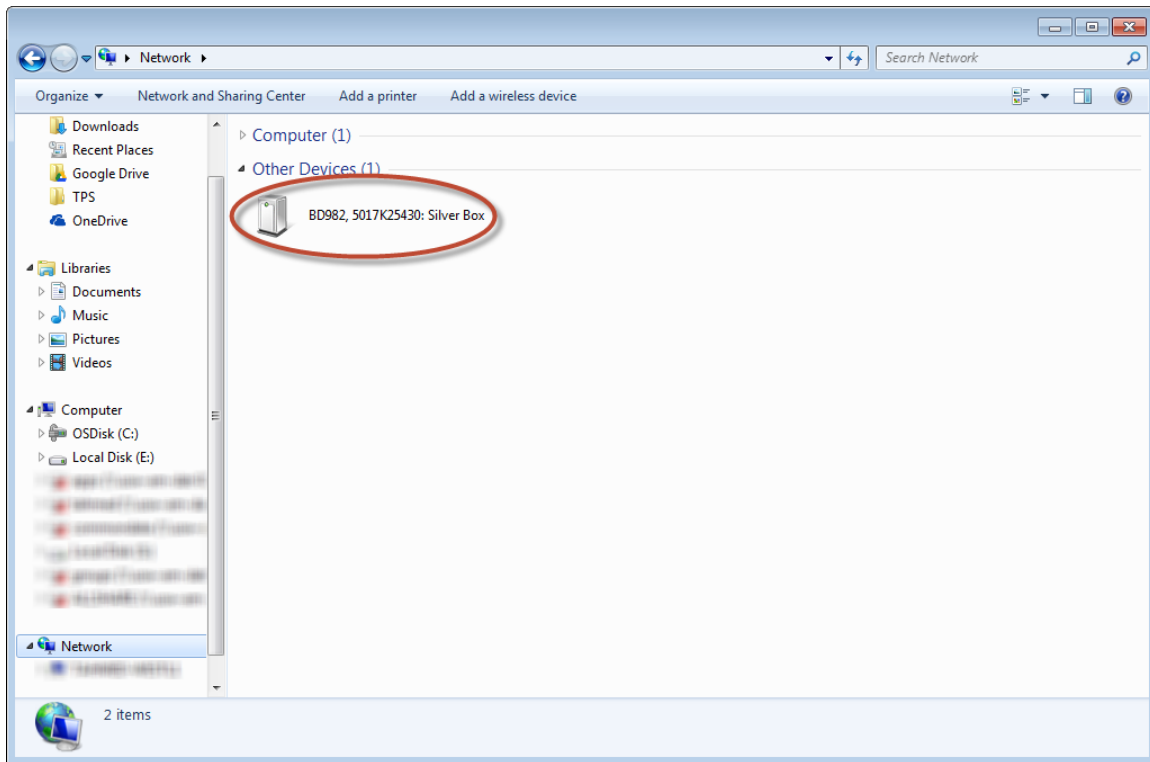
You can change the frequency and baud rate for tracking the OmniSTAR satellite by using either the web user interface (WebUI) or the BD9XX interface protocol.

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

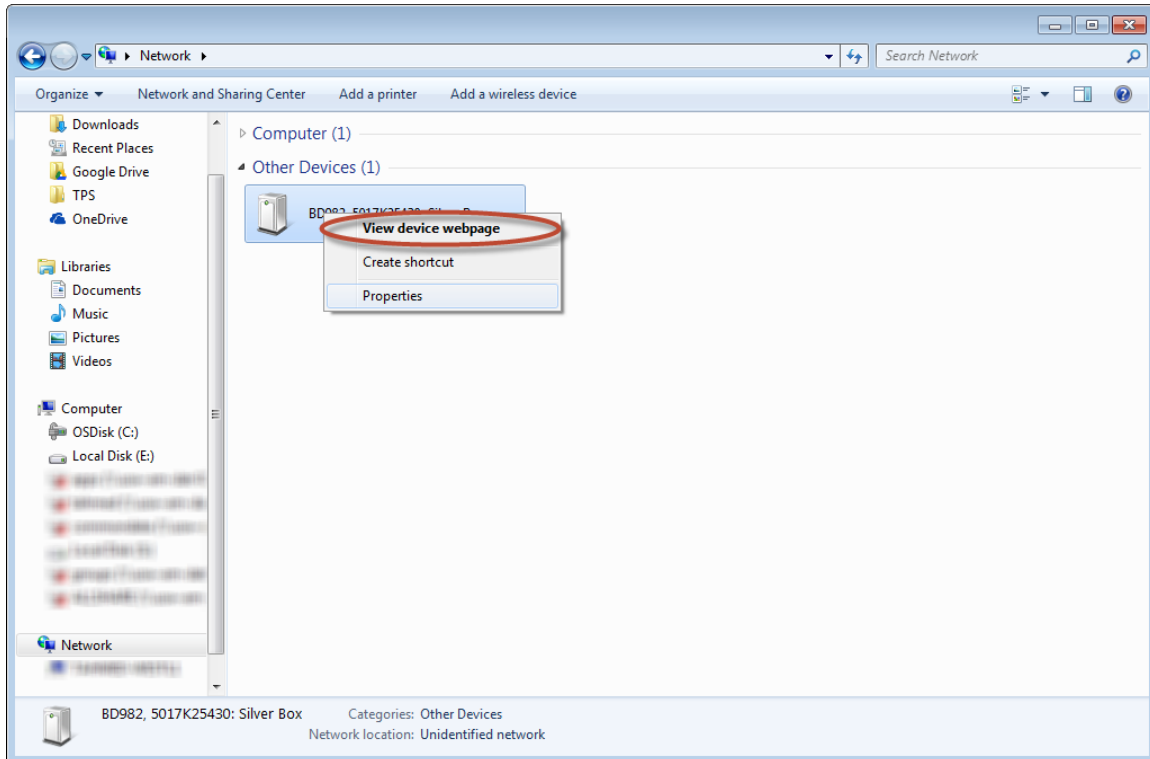
1. Connect the Trimble BD982/BX982 to a PC using an Ethernet cable.
2. Open the **Network** folder in Windows Explorer. You can find this by searching for 'network' from the start menu.



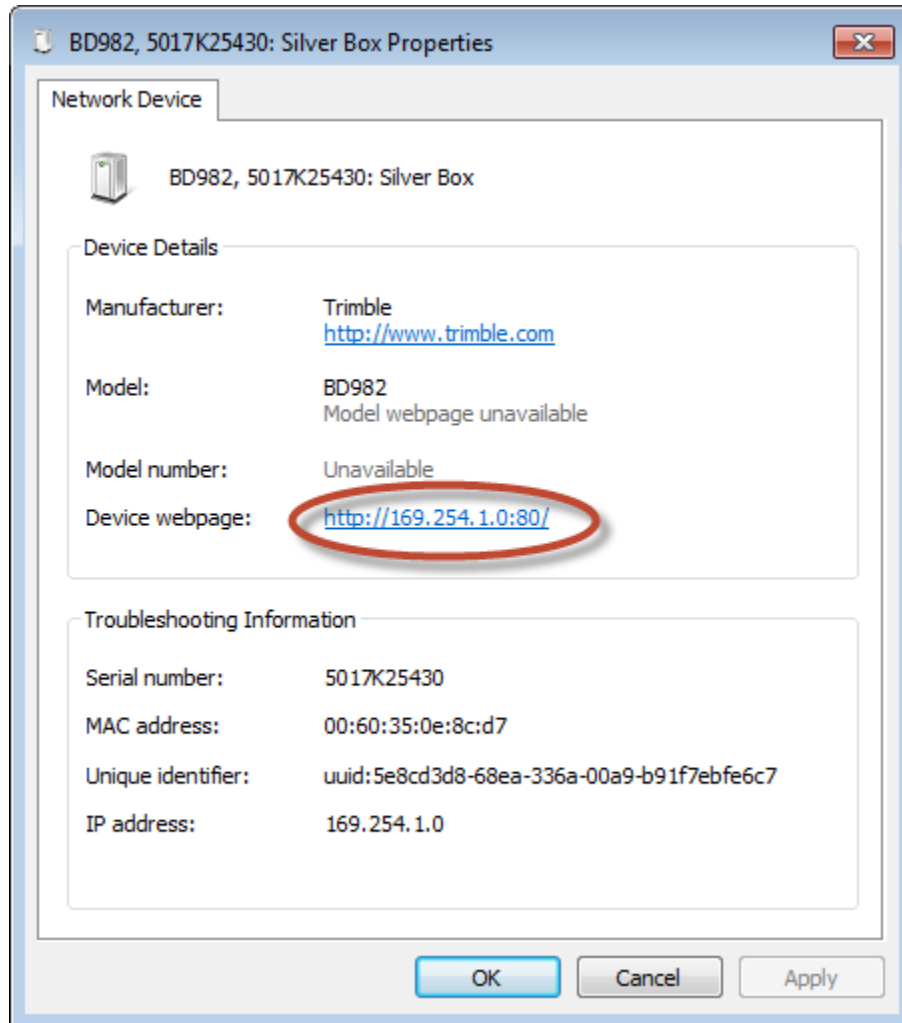
3. Your BD982/BX982 should appear under **Other Devices**



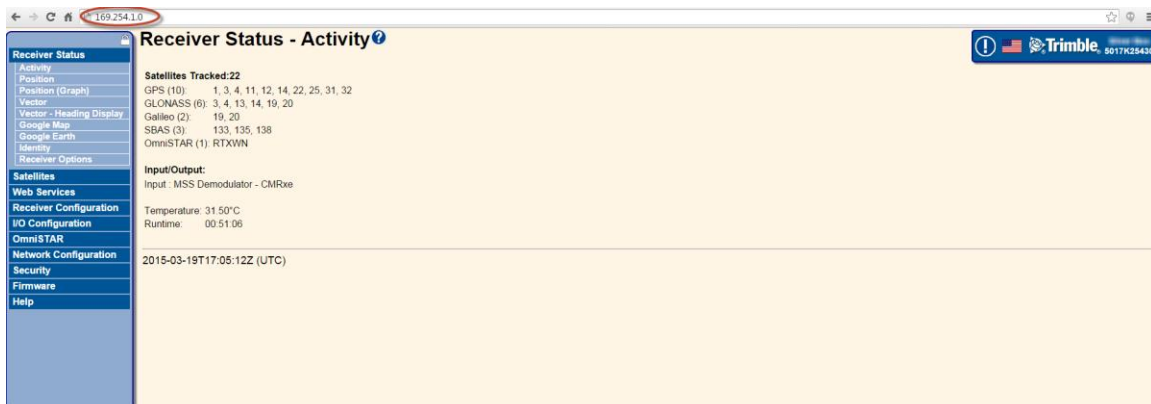
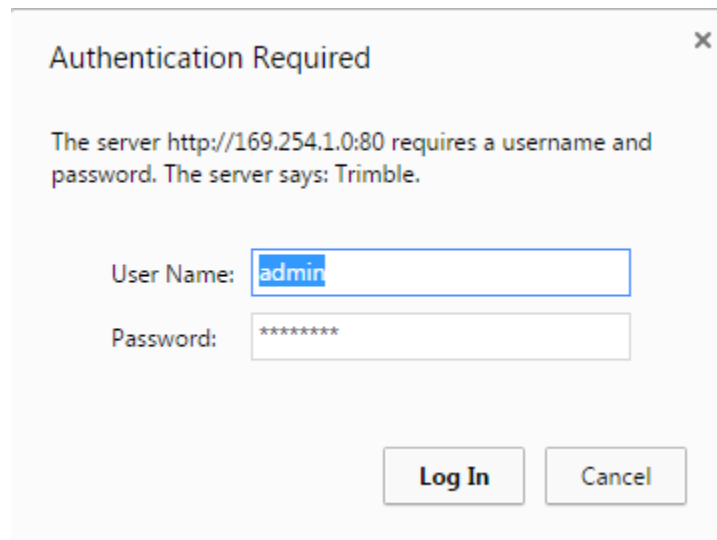
4. You can open up the web user interface through one of the following methods:
 - a. Double-click the BD982/BX982 icon
 - b. Right-click the BD982/BX982 icon and click on **View device webpage**



- c. Right-click the BD982/BX982 icon and click on **Properties**. From the **Properties** dialog, click on the **Device webpage** url. You can also copy and paste this url into any modern web browser.



- If the Web UI asks for credentials, the default username is “admin” and the default password is “password”.

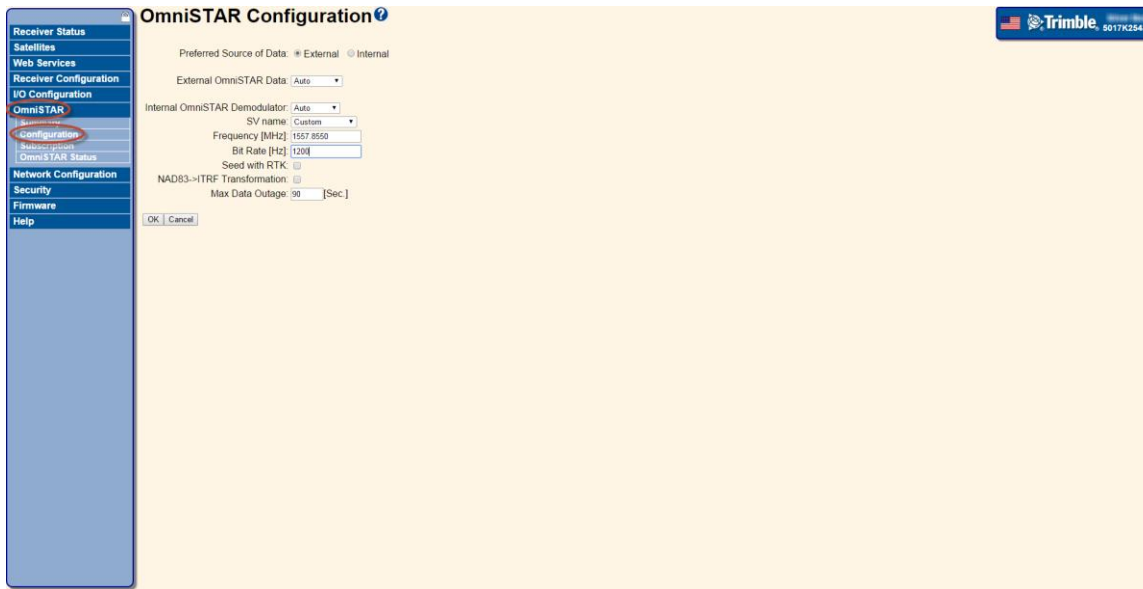


Note: If there are any issues with step (3), make sure all other network connections are turned off or disconnected; this includes disconnecting or turning off WiFi.

Changing the frequency and baud rate through the webUI

- Connect to the WebUI
- Navigate to the **OmniSTAR**→**Configuration** page
- Confirm the following settings
 - Preferred Source of Data:** External
 - External OmniSTAR Data:** Auto
 - Internal OmniSTAR Demodulator:** Auto
 - 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 use of Trimcomm and the BD9XX interface protocol

Please contact your local Trimble InTech representative for more information.

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**

OmniSTAR Summary

Signal Source	Demodulator
SV name	Custom
Frequency [MHz]	1557.8615
Bit Rate [Hz]	600
Setting	RIX
Mode	Tracking
C/No [dBHz]	42.47
SNR [Eb/No]	11.61
Total messages	16
Bad messages	0
Total unique word bits	1088
Bad unique word bits	0
Total Viterbi symbols	138176
Corrected Viterbi symbols	0
Estimated BER	7.19482e-07
I/Q ratio	6.035272
Unique words with bit errors	0

Verification through the use of Trimcomm and the BD9XX interface protocol
 Please contact your local Trimble InTech representative for more information.

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

OmniSTAR Summary		
Receiver Status	Signal Source	Demodulator
Satellites	SV name	Custom
Web Services	Frequency [MHz]	1557.8550
Receiver Configuration	BIT Rate [Hz]	1200
I/Q Configuration	Setting	Auto
OmniSTAR	Mode	Tracking
Summary	C/No [dBHz]	43.90
Subscriptions	SNR [Eb/No]	10.03
OmniSTAR Status	Total messages	4
Network Configuration	Bad messages	0
Security	Total unique word bits	320
Firmware	Bad unique word bits	0
Help	Total Viterbi symbols	40040
	Corrected Viterbi symbols	13
	Estimated BER	3.75041e-06
	I/Q ratio	5.029521
	Unique words with bit errors	0

Verification through the use of Trimcomm and the BD9XX interface protocol
Please contact your local Trimble InTech representative for more information.

For Additional Assistance

If you need additional assistance, please contact your regional Customer Care team.

North, Central & South America and the Caribbean

Phone: +1- 832-538-0210

US Toll Free Phone: +1- 877-407-4743

Brazil Phone: +55 (19) 3113 7099

Email: am_corrections@trimble.com

Australia, South East Asia and India

Australia Toll Free Phone: 1800 062 221

Phone: +61 8 9322 5295

Email: au_corrections@trimble.com (Australia)

Email: asia_corrections@trimble.com (South East Asia)

Email: in_corrections@trimble.com (India)

China

Phone: +86 10 8857 7575

Email: asia_corrections@trimble.com

New Zealand

NZ Toll Free Phone: 0800 888 864

Phone: +64 3 354 9195

Email: nz_corrections@trimble.com

Europe/CIS & Middle East

Phone: +31 70 317 0912 (Service & Support)

Phone: +46 8622 1063 (Sweden)

Phone: +49 6142 177 2035 (Germany)

Phone: +44 1256 746 220 (UK)

Email: eu_corrections@trimble.com (Europe, Russia & CIS)

Email: me_corrections@trimble.com (Middle East)

Africa

Phone: +27 21 404 1870

Email: africa_corrections@trimble.com