

SUPPORT BULLETIN

Positioning Services

Configuring Trimble SPS 585 For New Frequency and Baud Rate

The following instructions will instruct you how to change the frequency and baud on your Trimble SPS 585. 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 Settings for RTX on the SPS 585

The following set of instructions will instruct you how to change the frequency on your Trimble SPS 585.

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. 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.
 - a. If you are prompted for a password, the default password is abcdeabcde
- 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'

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<u> </u>	Receiver Status - Activity®	Trimble TPS CC
Receiver Status		5448R00069
Satellites	Satellites Tracked:22	
Web Services	GPS (9): 3, 7, 9, 10, 16, 19, 20, 23, 27	
Receiver Configuration	GLIONASS (7) 3, 4, 5, 13, 14, 15, 23 Celline (1) 19, 20	
Divelocity	SeiDeu (1) 11	
MSS Corrections	SBAS (2): 133, 138	
Network Configuration	MSS(1): RTXWN	
WI-FI	Input/Output:	1
Security	Output : Bluetooth GNSS - GSOF (5Hz)	
Firmware	Input : MSS Demodulator - CMRxe	
Help	Temperature: 33.00°C	
	Runtime: 2 Days 21:43:15	
	Power Source: Battery 1	
	Wireless Connections:	
	Wi-Fi Access Point - Up and connected	
	Den 4	
	Battery 1 (70%/ 3 82/)	
	0% 100%	
	2015-03-03122:20:132 (01C)	
	e	

Note: If the SPS 585 is not listed under WiFi connections, verify that the Wi-Fi icon on the front panel of the receiver is on and blinking; if it is not blinking, hold down the power button for 15 seconds, until you see all the lights on the front panel light up, and then release the power button. This will reset the SPS 585 receiver to default settings, which will turn WiFi on again.

Changing the frequency and baud rate

- 1. Connect to the WebUI
- 2. Navigate to the **MSS Corrections**→**Configuration** page
 - a. Confirm that **RTX/xFill** is selected
 - b. Set SV name to Custom
- 3. 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
- 4. Click OK



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Changing the Frequency and Baud Rate for xFill on the SPS 585

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 receiver is outside with a clear and open view of the sky
- 2. Connect to the WebUI
- 3. Navigate to the **MSS Corrections**→**Summary** page
- 4. The Mode field should display Tracking



	MSS Summar	VQ
Receiver Status	moo oummar	y •
Satellites		
Web Services	Panisa	DTYAC
Receiver Configuration	Setting	DTY
Neceiver Configuration	Setting	RIX
Directoration	SV name	Auto/RTXWN
Bluetooth	Frequency [MHz]	1557.8615
MSS Corrections	Bit Rate (Hz)	600
Configuration	Mode	Tracking
Subscription	C/No (abriz)	40.35
Network Configuration	SNR (Eb/No)	9.49
Wi-Fi	Total messages	50
Security	Bad messages	1
Firmware	Total unique word bits	3328
Help	Bad unique word bits	0
neip	Total Viterbi symbols	414528
	Corrected Viterbi symbols	51
	Estimated BER	6 59149e-06
	I/Q ratio	4.72712
	Unique words with hit errors	0
	Conque neras marbit errors	

Verification through the SitePulse field software

- **1**. Make sure the receiver is on, and outside with a clear and open view of the sky and then connect to the receiver by following steps 2-7
- 2. Tap the gear icon to navigate to the Settings page





3. Tap GNSS Setup

Strimble.	Settings
	GNSS Setup Site SitePulse Preferences Personal Preferences
	Map Display
	Close

4. Select the correct receiver, or tap Scan to search for it

© Trimble	Configure GNSS	
Paired receivers:	Correction method:	
SPS585, 5448R00069: TPS CC	IBSS	
Internal GNSS	Internet	
Scan	CenterPoint RTX	
Cancel		Select



5. Select **CenterPoint RTX** for the correction method

Trimble .	Configure GNSS				
Paired receivers: SPS585, 5448R00069: TPS CC	Correction method: IBSS	Antenna	Antenna setup:		
		0	Height: 6.56 usft		
nternal GNSS	Internet	GNSS ho 0.49 usft	orz precision:		
2000	ConterDoint DTV	GNSS ve	ert precision:		
Scall	CenterPoint HTA	0.49 031			
	Copied to clipboard.				
Cancel			Accept		

Note: You may not be able to select **CenterPoint RTX** if you do not have a valid CenterPoint RTX subscription



6. Enter user defined **GNSS horizontal** and **vertical** precision tolerances, and tap **Accept**, then tap **OK**

Strimble.	Configure GNSS				
Paired receivers: SPS585, 5448R00069: TPS CC	Correction method: IBSS	Antenna se	Antenna setup:		
Internal GNSS		GNSS horz 0.49 usft	GNSS horz precision: 0.49 usft		
		GNSS vert p	precision:		
Scan	CenterPoint RTX	0.49 usft			
G	NSS setup is complete.				
Cancel			Accept		

Note: You may be prompted to measure a datum shift after completing GNSS setup; review the SitePulse user guide for more information

7. Navigate to the Settings page and select the button next to GNSS tolerances

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Trimble		Set	tings	
	GNSS Setup	Site	SitePulse Preferences Prefer	onal ences
	Map Display	Measure Datum Shift		
Connection type: Correction method:			SPS585, 5448R00069: TPS CC CenterPoint RTX	
GNSS tolerances:			Hz: 0.49 usft	Vt: 0.49 usft
(Close			



8. Select the Status button

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🖉 Trimble	GNS	S Tolerances	
GNSS horz precision:		0.49 usft	
GNSS vert precision:		0.49 usft	
		Status	
Concol			Accent
Cancel			Ассері

9. The Status field will display Initializing or Initialized

		🖈 💐 🛜 25% 🗖 4:11 PM
Strimble.	RTX Status	
Status:	Initializing	
Current precisions:		
H:	0.63 ustt	
v	0.35 dst	
CIUSE		



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Trimble.		RTX	Status	
Status:		(Initialized	
Current precisions:			0.00	
н: V			0.26 USIT	
۰.			0.00 0311	
an ann an ann an An Thairte				
	Close			



For Additional Assistance

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

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