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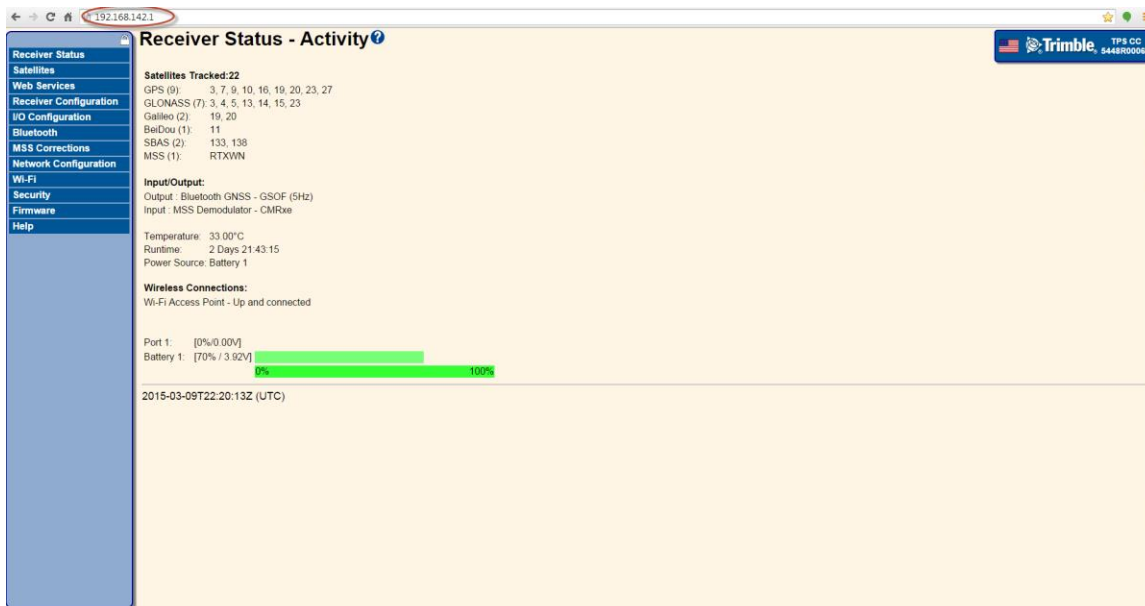
Connecting to the web user interface (WebUI) of the receiver

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*'

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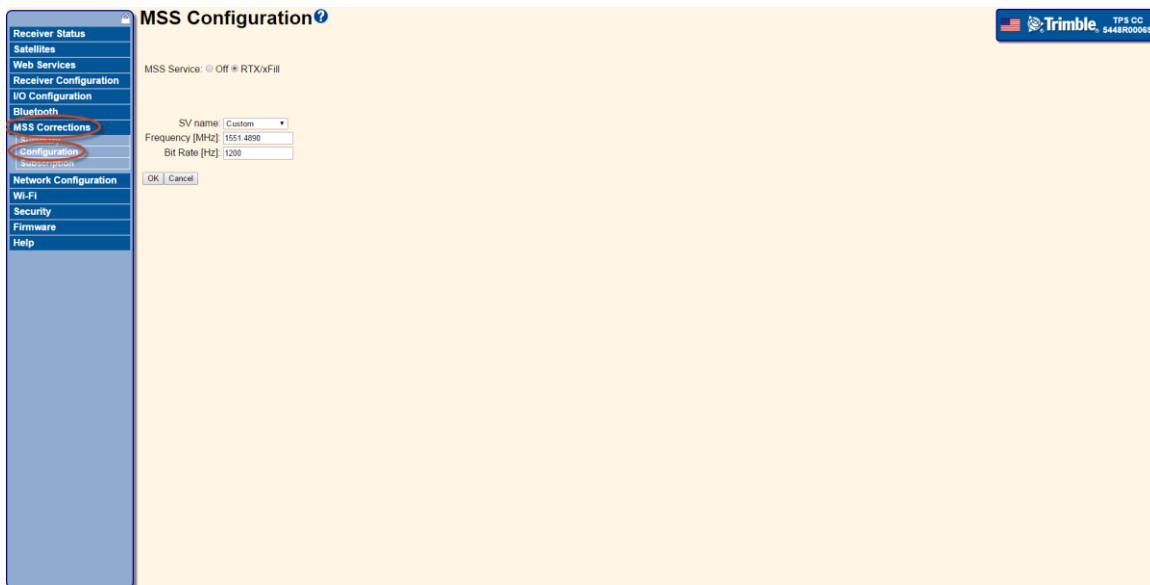
Changing the Frequency and Baud Rate for xFill on the SPS 585

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 Summary

Service	RTX/xFill
Setting	RTX
SV name	Auto/RTXWN
Frequency [MHz]	1557.8615
Bit Rate [Hz]	600
Mode	Tracking
C/No [dBHz]	40.35
SNR (Eb/No)	9.49
Total messages	50
Bad messages	1
Total unique word bits	3328
Bad unique word bits	0
Total Viterbi symbols	414528
Corrected Viterbi symbols	51
Estimated BER	6.59149e-06
I/Q ratio	4.72712
Unique words with bit errors	0

Receiver Status
Satellites
Web Services
Receiver Configuration
I/O Configuration
Bluetooth
MSS Corrections
  Summary
  Configuration
    Subscription
Network Configuration
Wi-Fi
Security
Firmware
Help

## 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
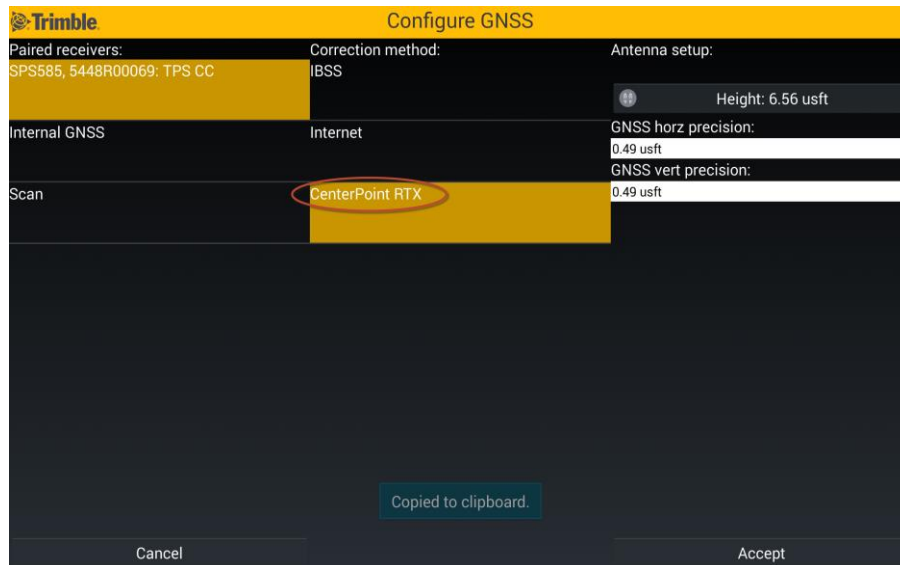2. Tap the **gear icon** to navigate to the Settings page

Real Time Cut/Fill

Height: 6.56 usft

50.99 usft

5470.00 usft

478 usft
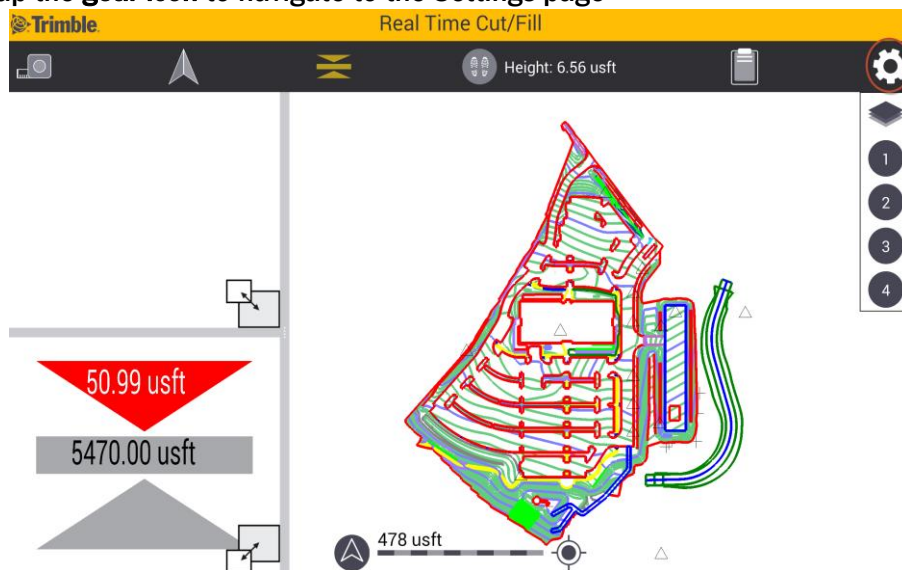
3. Tap **GNSS Setup**
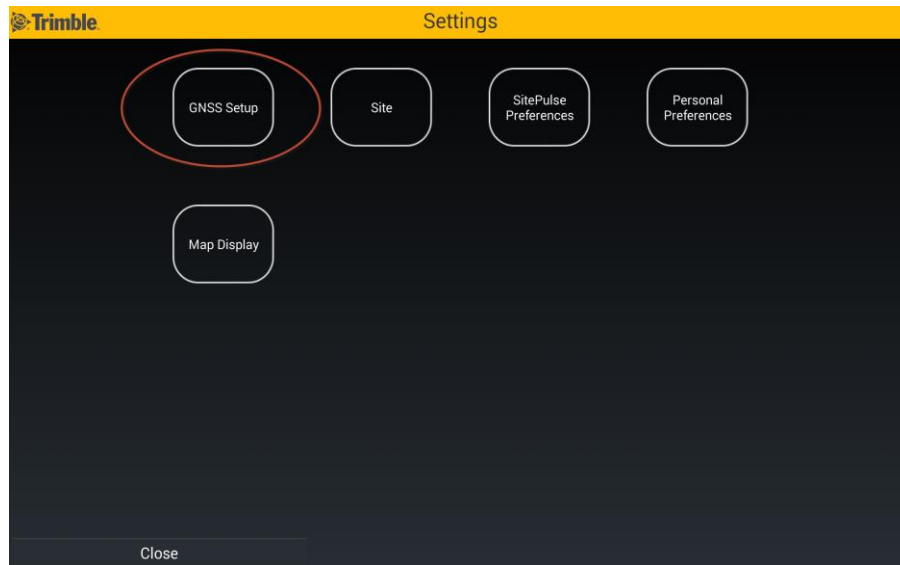
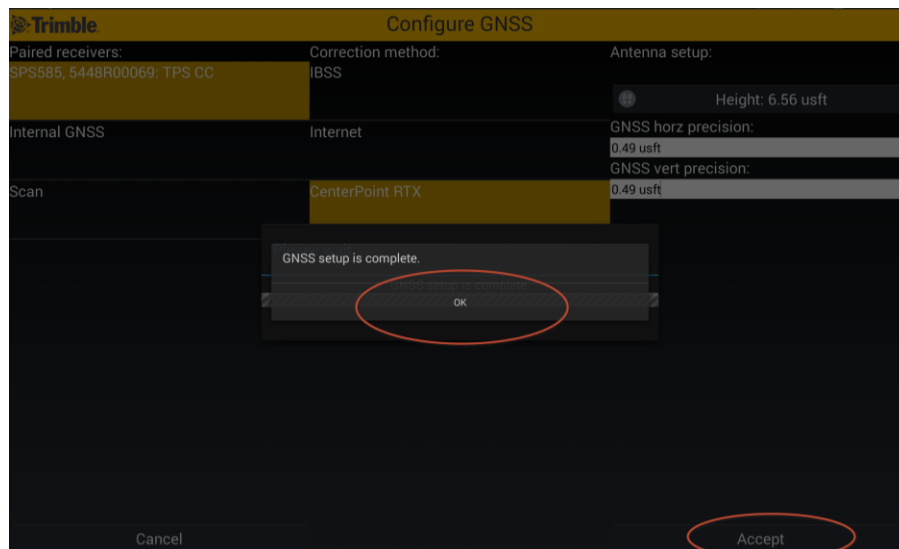4. Select the correct receiver, or tap **Scan** to search for it
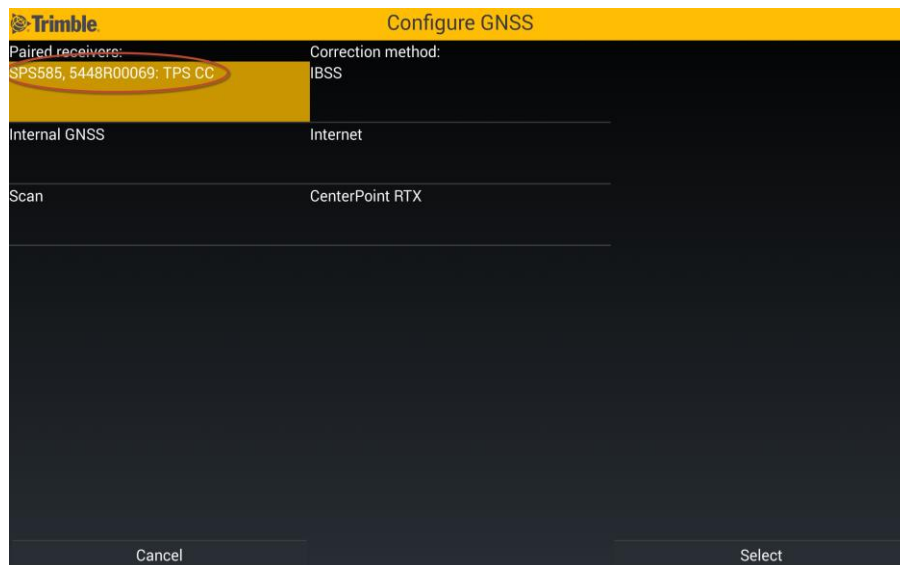
5. Select **CenterPoint RTX** for the correction method

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**
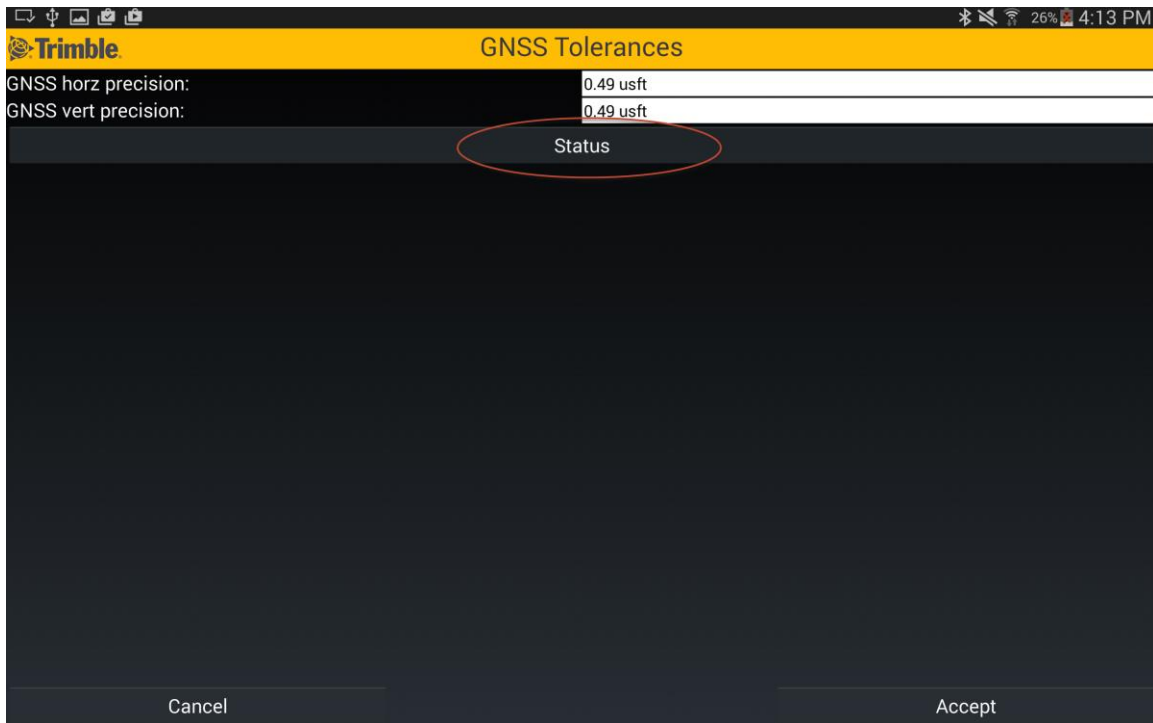

Note: *You may be prompted to measure a datum shift after completing GNSS setup; review the SitePulse user guide for more information*

7. Navigate to the **Settings** page and select the button next to **GNSS tolerances**
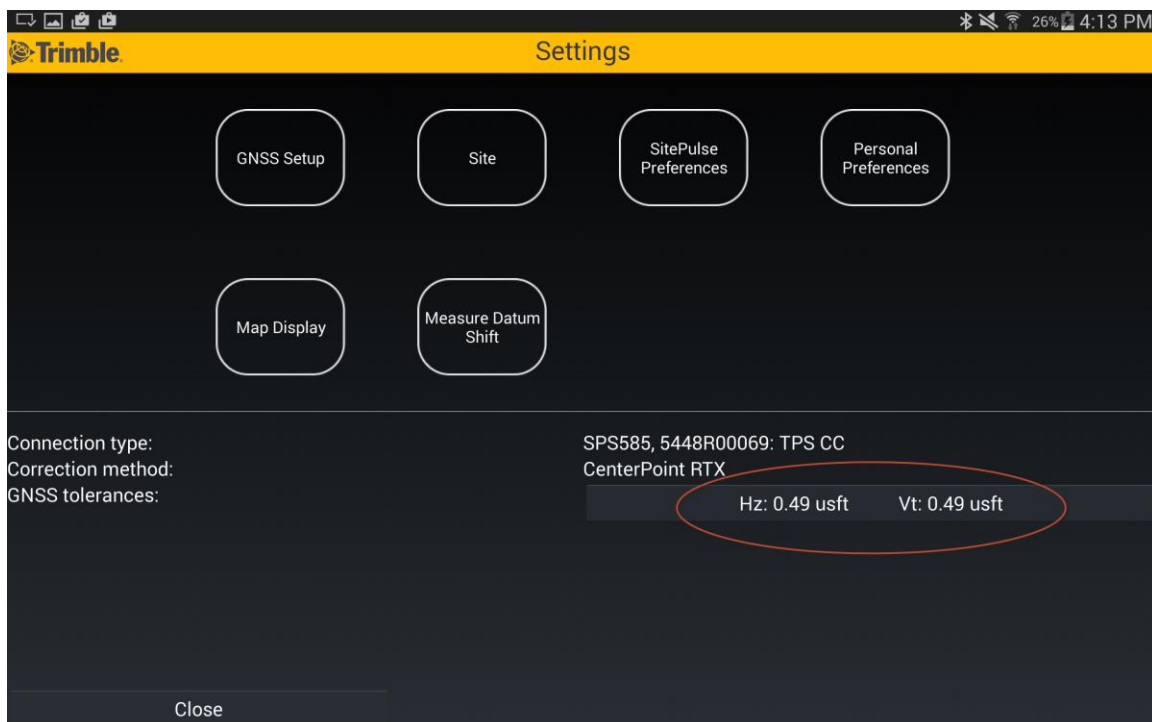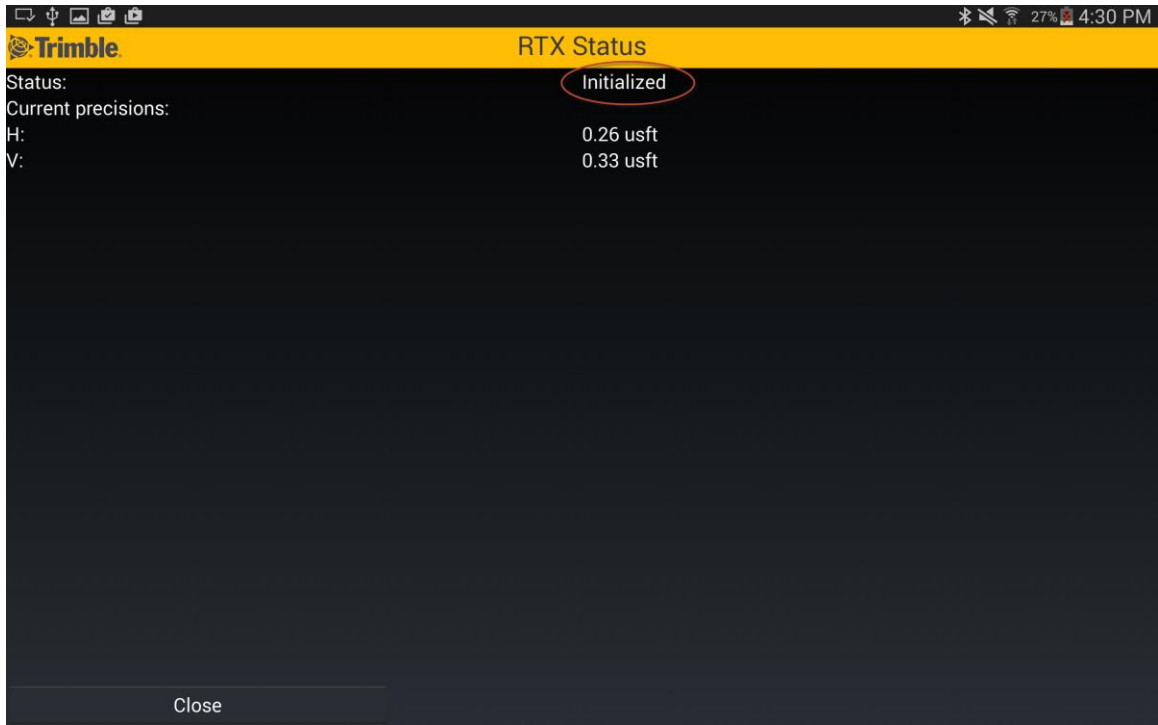
8. Select the **Status** button

9. The Status field will display **Initializing** or **Initialized**

RTX Status

Status:	Initialized
Current precisions:	
H:	0.26 usft
V:	0.33 usft

Close

For Additional Assistance

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

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