GNSS/GPS- Trimble TSC3 and Trimble Access
Changing telemetry radio frequency

Overview: This document explains the basic functions on the TSC3 data collector and how to change the radio frequency of the UHF radio in a GNSS or GPS receiver

Equipment: TSC3 data collector running Trimble Access and a GNSS or GPS receiver with an internal radio

Results: User will have basic ability to do the following

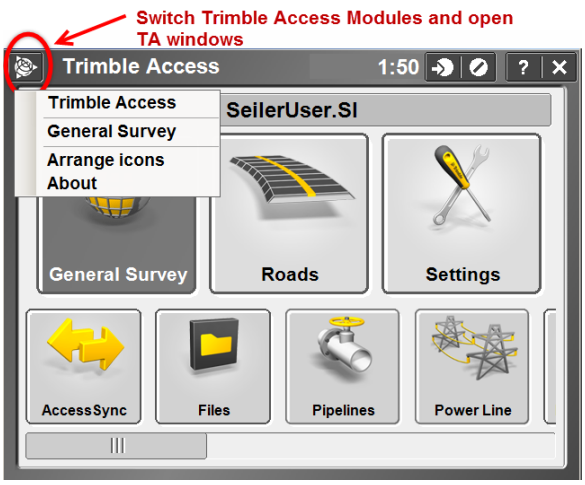
1. Check Bluetooth settings
2. Connect to the GNSS receiver
3. View and change radio settings
4. Save and exit

Procedure:

Turn on TSC3 (Green button Lower left hand corner)

If Access is not running push the **Trimble Key** on the keyboard to start it

Some of the specialized keys



Trimble Access **Main Screen**

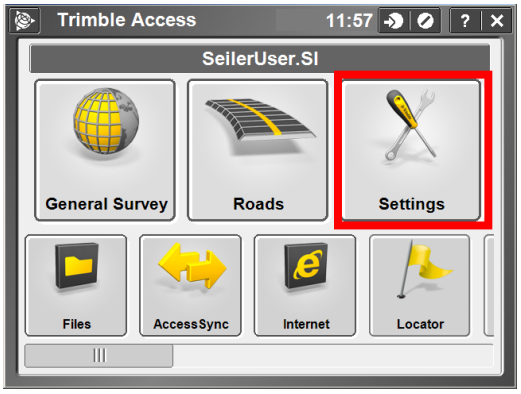
Use the **Trimble Icon** on the screen or on the keyboard to switch between screens if there are multiple screens opened. It is much faster than shutting down the current screen and opening a new screen.

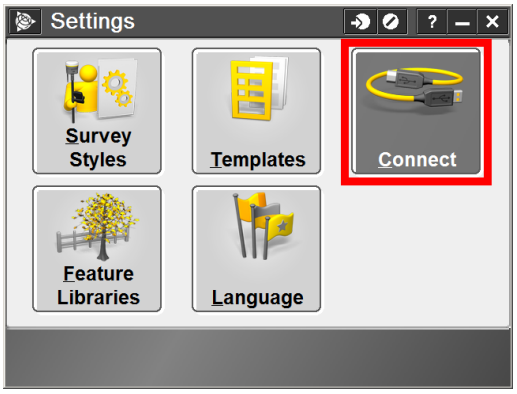
This is also the best way to switch between TA Modules like General Survey, Roads or Powerline. Then you do not have to restart your survey with every module.

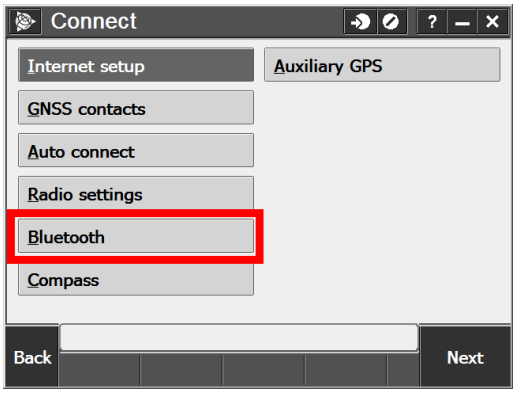
Verify Bluetooth Devices

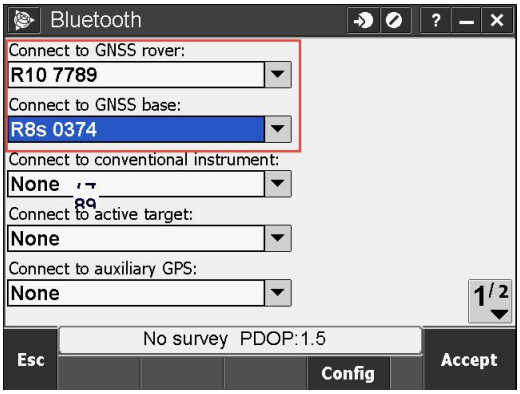
Bluetooth

1. From Main Trimble Access screen, select **Settings**
2. Select **Connect**
3. Select **Bluetooth** devices









4. Select the correct **Rover** and **Base** receivers

Note: If cable is being used, it must be set to "**None**"

5. Tap **Accept** to store settings then tap **ESC** to return to the **Main Screen**

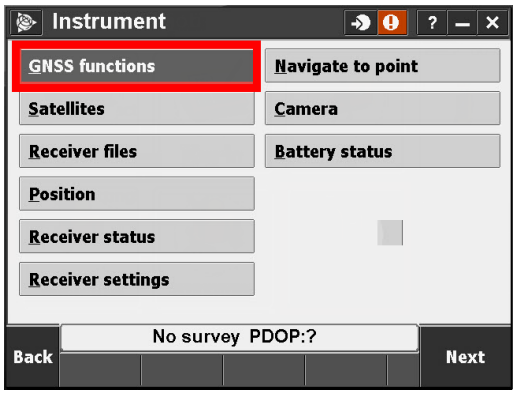
Connecting to Internal Radios

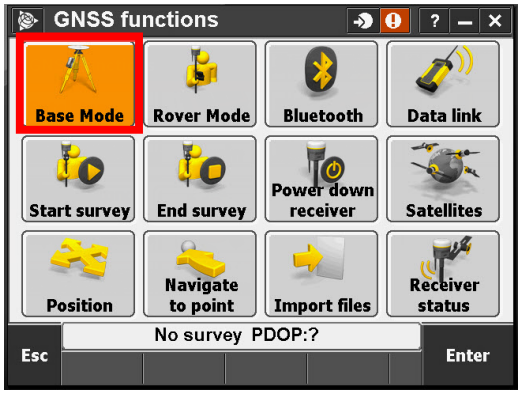
From the Trimble Access **Main Screen**, select **General Survey**

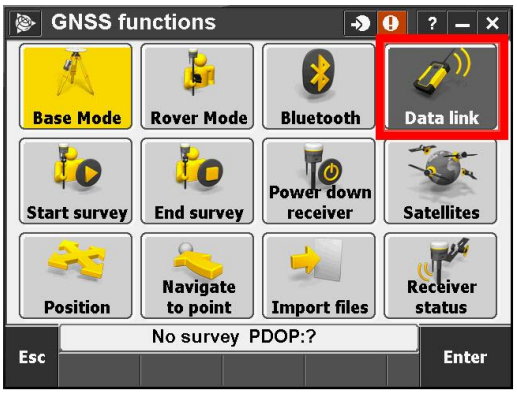
Select which receiver to connect to, the **Base** or the **Rover** GNSS receiver

***Note**: Both the Base and Rover receivers have to be programmed individually to the same radio frequency with the same over the air baud rate and broadcast mode.*

1. Select **Instrument**
2. Select **GNSS functions**
3. Select **Base Mode;** this will connect the controller to the GNSS base receiver as set in the Bluetooth setting.
4. Select **Data Link**

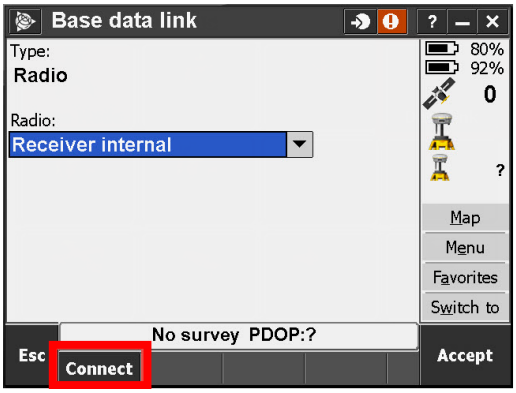


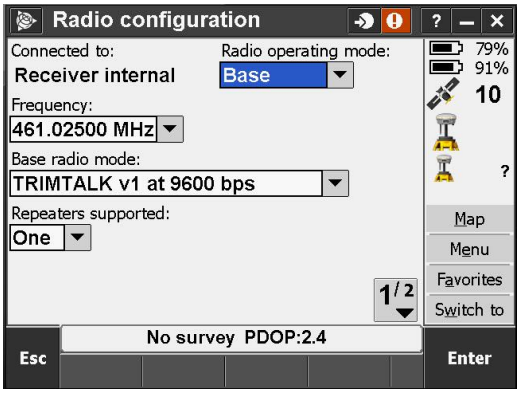




***Note:** If the Data link icon is grayed out, wait for the Bluetooth connection to activate then it will be available. Check to be sure the Base receiver is powered on.*

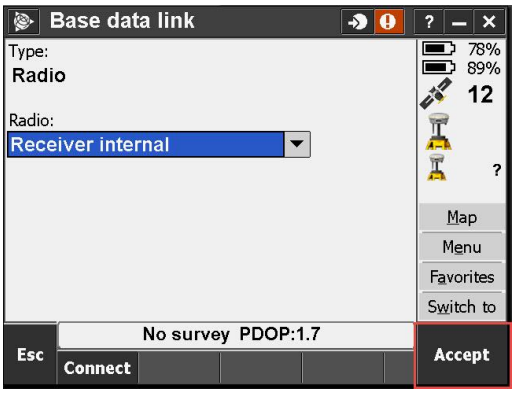
5. Radio type should be set to **Receiver internal**
6. Tap **Connect** at the bottom of the screen





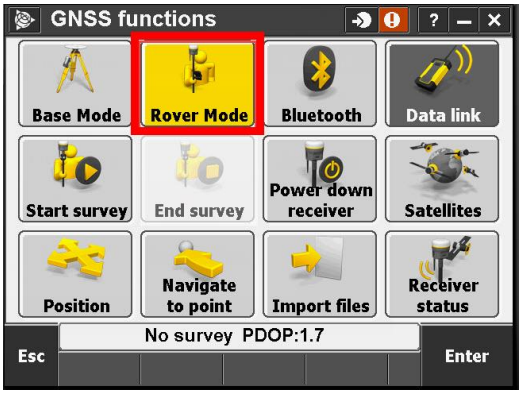
1. *Radio operating mode* needs to be set to **Base**
2. Select the frequency that you are broadcasting on and make note of it (you will need it for the Rover setup) ★
3. Make a note of the Base radio mode (you will need it for the Rover setup)
4. If you have a repeater set to **One,** if you do not have a repeater set to **None**
5. Tap **Enter** when finished

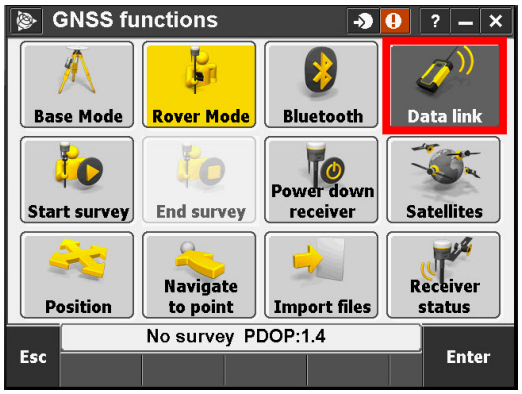
Note: *Not all receivers can transmit. If your receiver does not have* ***Base*** *as an option, it does not have the ability to broadcast. If you think you should have that ability, swap the Base and Rover receivers in the Bluetooth settings and try this Data Link connection again.*

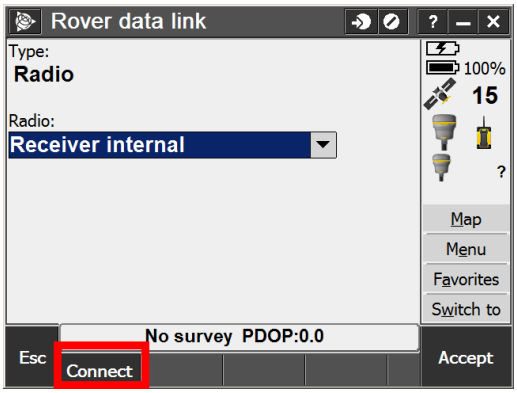


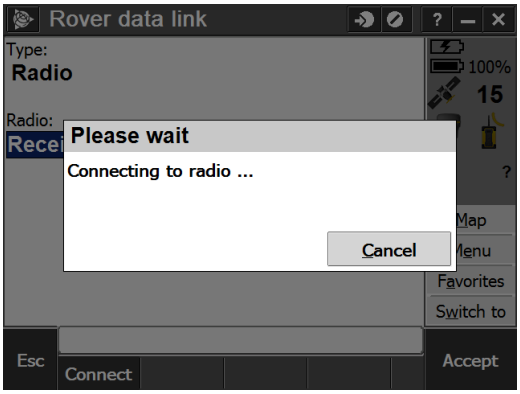
6. Tap **Accept**
7. The base radio setup is complete, press **Accept** to go back to the **GNSS function** screen

8. Select **Rover Mode**
9. Select **Data Link**



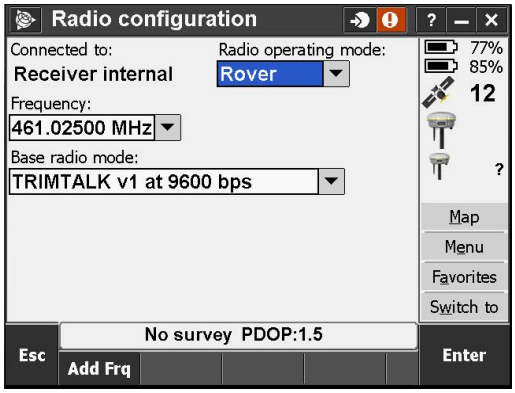






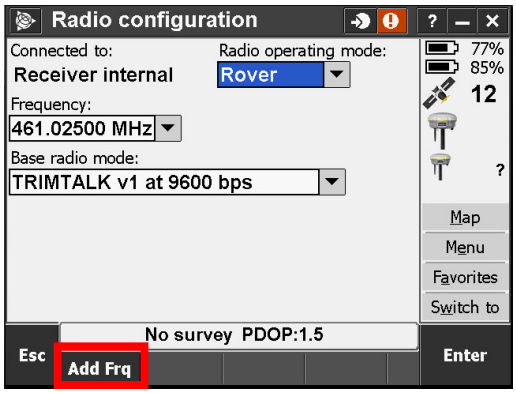
10. Radio type should be set to **Receiver internal**
11. Tap **Connect** at the bottom of the screen

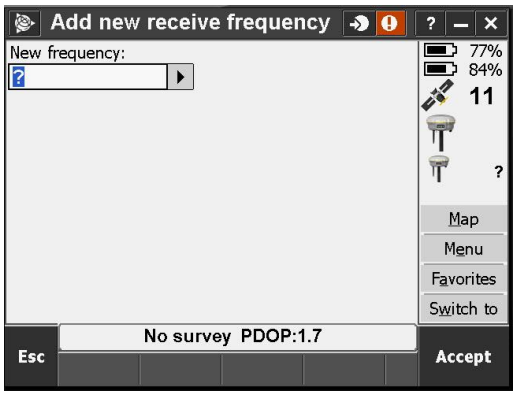
***Note**: If the **Connect** softkey is not there, wait for the Bluetooth connection to the receiver first then it will appear. The status bar will show when the connection is made.*



12. Radio operating mode needs to be set to **Rover**
13. Select the frequency that you are receiving on (see your note from step 2 of setting the base)
14. f the Base radio mode (see your note from step 3 of setting the base)

FCC regulations limit you to broadcasting on the frequencies you are licensed for. Users can listen on any frequency. If the frequency you want to listen on is not in the list tap **Add Frq** at the bottom of the screen.

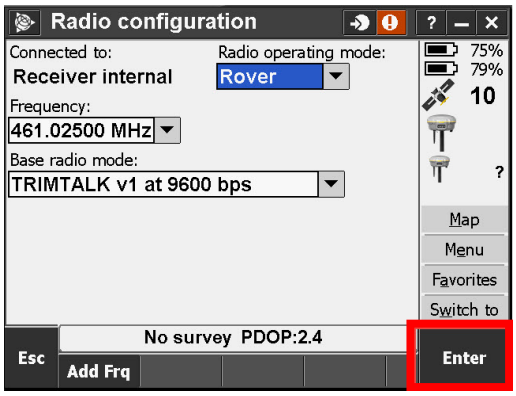


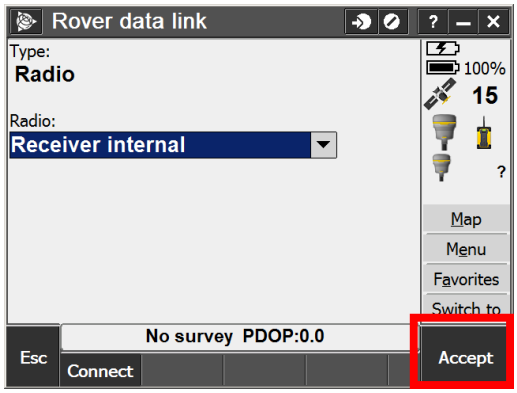


1. Enter the frequency you want to receive on. Note: This is only for receiving frequencies not transmitting.

2. Tap **Accept** when finished, this will take you back to **Radio Configuration**

3. Tap **Enter** when finished





4. Tap **Accept**

5. The **Rover** radio setup is complete, press **Accept** to go back to the **GNSS function** screen and

6. Tap **ESC** to return to the General Survey menu