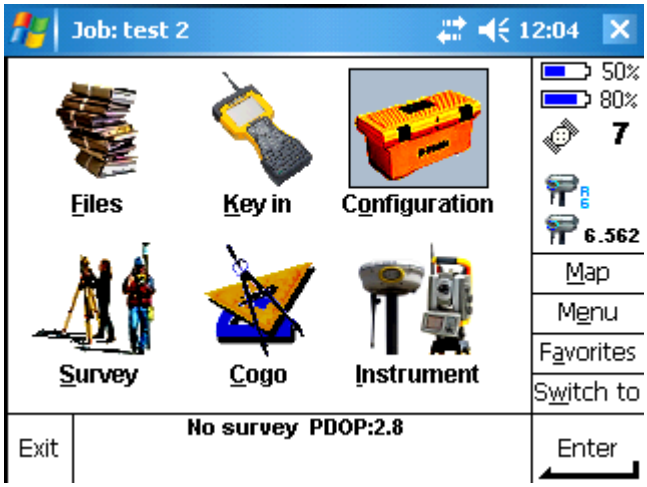
Starting an RTK Base and Rover

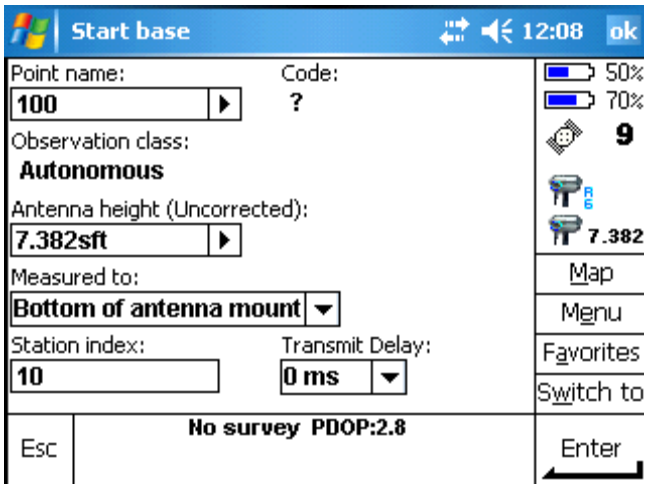
Switching Bluetooth Connection
Tap the **Configuration Icon / Controller / Bluetooth**.
Pull down the menu arrow of the **Connect to GNSS receiver**, and select the appropriate receiver serial number from the list that you want to communicate to. In this case the Base receiver.

Tap accept in the lower right hand corner, and you are now back to the main menu.



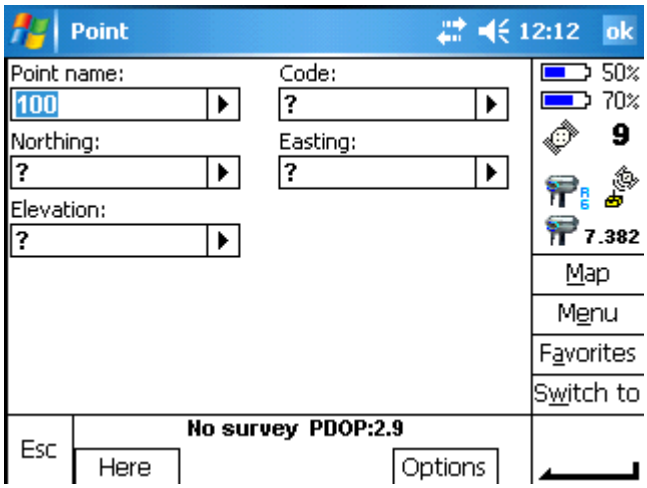
Wait for the bluetooth connection to establish. You will see the number of satellites on the right bar of the screen. You can also look at the Satellite light (Orange LED) on the base receiver face and wait for it to go to a once a second blink. This means you have enough Satellites to begin your survey.

Tap the **Survey icon / RTK & Infill / Start Base Receiver**.



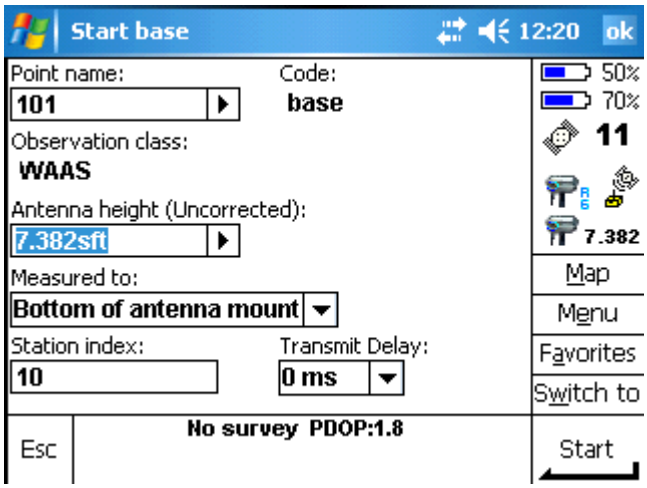
Type in the point Number for your base station, and verify that your antenna height is correct.

Tap the ≥ on the Point name box / select Key in.



Verify your point name is still correct. You can put in a code of BASE for future reference.
Tap the Here button on the lower left hand side of the screen. This assigns autonomous coordinates to the point that you will start your survey off of.

Select the Store button in the lower right corner of your screen.



Verify your antenna height once more, then Tap the **Start button** in the bottom right corner.
You should see a bar showing starting survey, than a pop up window showing **Base Started**.
Select OK. You are now at the main menu. *You should also notice the power light (GREEN LED) on the face of the base receiver blinking every two seconds. This means that the base is logging a static file.*
Make note of the time so that you can keep track of how long you have been logging data on your base.
More time / data observations = more accurate coordinate after processing.

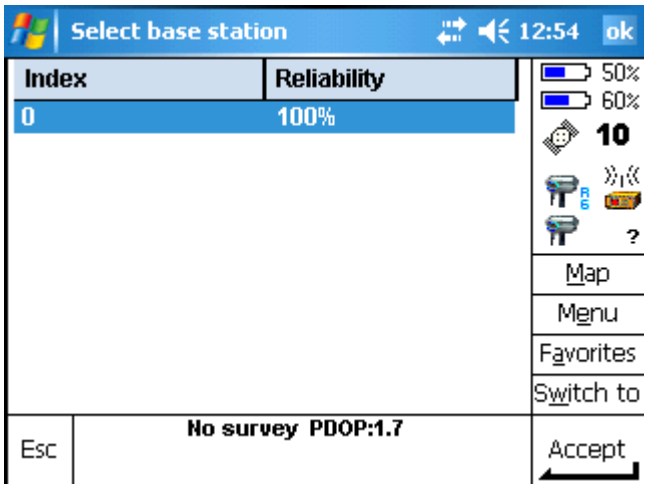
Switching Bluetooth Connection to the Rover
Tap the **Configuration Icon / Controller / Bluetooth**.
Pull down the menu arrow of the **Connect to GNSS receiver**, and select the appropriate receiver serial number from the list that you want to communicate to. In This case it would be your rover.
Tap accept in the lower right hand corner, and you are now back to the main menu.

Starting your Survey at the Rover

Wait for the bluetooth connection to establish. You will see the number of satellites on the right bar of the screen. You can also look at the Satellite light (Orange LED) on the base receiver face and wait for it to go to a once a second blink. This means you have enough Satellites to begin your survey.

You should also see the Radio light (Center Green LED) on the face of the Rover Receiver blinking once a second. This means that the rover hears radio data. There will also be a radio icon in the right bar of the screen.

Tap the Survey Icon / RTK / Start Survey You may see the following screen:



This is just showing the survey bases transmitting on that frequency in the area; choose **Accept** in the lower right corner. You will then see the main screen again with RTK precisions at the bottom.

Wait for initialization/ the precisions to say **Fixed**.

Tap the **Survey icon** / **Measure points**.

Enter your point name for your first observation, enter the code or description, and *verify the antenna height to the bottom of the receiver***.** To get this measurement, measure from the bottom of the range pole point / foot up to the place where the pole meets the receiver.

Tap measure and keep the pole as still and plumb as you can.

After the measurement is taken, the blank box appears as Store. Tap **Store**, and move on to the next point.

Ending the Survey

Use ESC in the bottom left corner to return to the main menu.

Tap the **Survey icon** / **End GNSS Survey**. The software will ask if you want it to power down the receiver. Choose **Yes**.

You can turn off the TSC2 collector by pressing and releasing the green power key.

Continue timing your Base Static session. When you have reached the required session time, turn on the TSC2, and reconfigure

Bluetooth to communicate with your Base Receiver.
Once connected to it, Tap the **Survey Icon / RTK & infill / End GNSS Survey**.
The software will ask if you want it to power down the receiver. Choose **Yes**.