

Setting up an SP80 using SurveyPro as a Network Rover

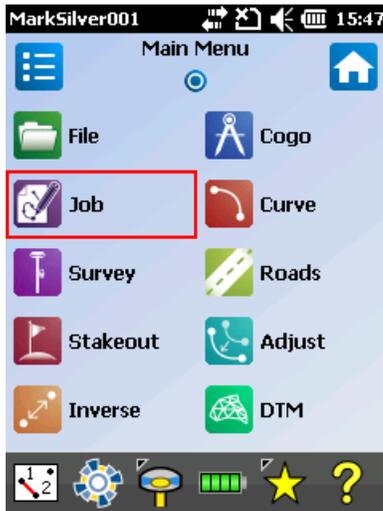
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Rev: 002

Step by Step instructions for setting up a SP80 in SurveyPro as a Network Rover.

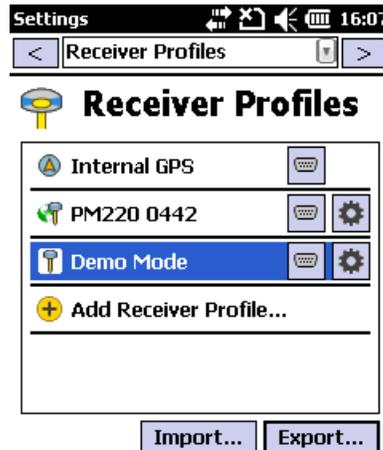
1. From the Main Menu:



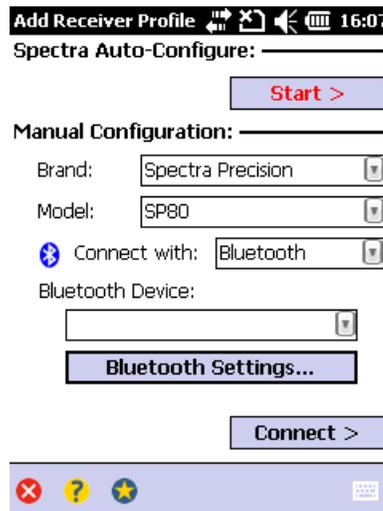
2. Click on 'Job':



3. Click on 'Settings':

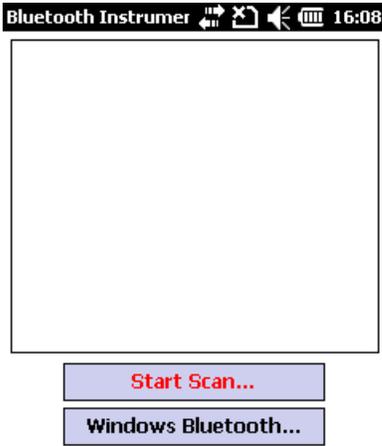


4. Click on 'Add Receiver Profile...':



Choose 'Brand = Spectra Precision' and 'Model = SP80'.

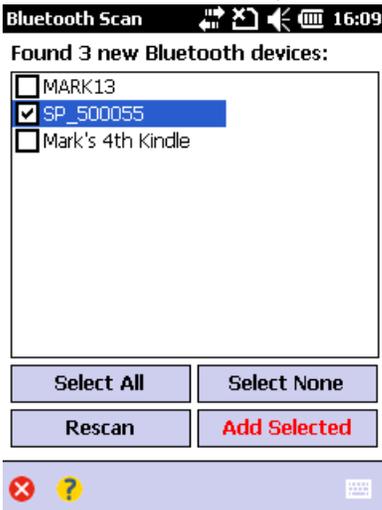
5. Click on 'Bluetooth Settings...'



6. Click on 'Start Scan'



7. Wait for search to complete:



Then check the box next to the SP80 (if you have more than one SP80, click them all)

8. Click 'Add Selected':



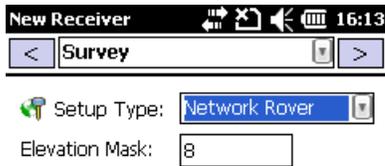
Leave 'Set Bluetooth PIN' unchecked.

9. Click the green check mark in lower left corner:



Make sure the new device is selected in the 'Bluetooth Device:' dropdown list.

10. Click on the 'Connect >' button:

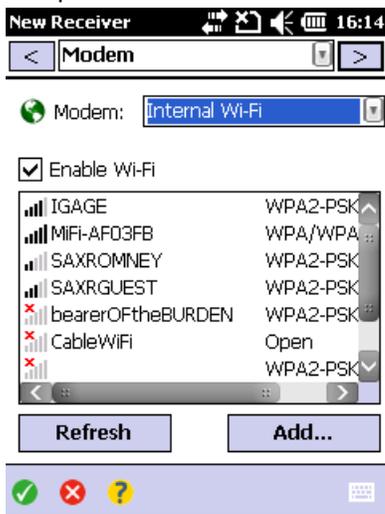


Set to OFF mode



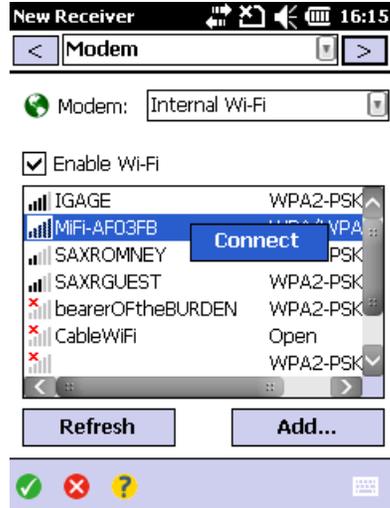
On the 'Survey' tab, select 'Setup Type = Network Rover' and set the elevation mask to something reasonable.

11. Click on the '>' button to move to the next setup tab:



Change the 'Modem' to 'Internal Wi-Fi'; this will turn on the WiFi device inside of the SP80 head so we can connect it to your Wi-Fi Hotspot.

12. Click and HOLD on the access point you want to connect to:



A 'Connect' box will be shown, click on 'Connect'

13. On the Network ID dialog:



enter the Wi-Fi key for your device (obfuscated above).

14. Click the green check mark in lower left corner:

Add Wi-Fi Network 16:18

Please Wait...

Connecting to MiFi-AF03FB...



automatically when available.



Wait a moment for head to attempt to connect to the Mi-Fi device.

- After 5-15 seconds you should see that the SP80 head has successfully connected to the MiFi:

New Receiver 16:19

Modem

Modem: Internal Wi-Fi

Enable Wi-Fi

MI-FI-AF03FB	Connected
IGAGE	WPA2-PSK
SAXROMNEY	WPA2-PSK
SAXRGUEST	WPA2-PSK
bearerOFtheBURDEN	WPA2-PSK
CableWIFI	Open
	WPA2-PSK

Refresh

Add...



- Click on the '>' button (upper Right) to move to the 'General' tab:

New Receiver 16:20

General

Storage Location: Internal Memory

NMEA Outputs: Off

Specify Base Receiver Type: Automatic

Backup Base Modem: None

RTK Bridge: Off



Check settings...

- You can optionally click on the '>' button (upper Right) to move to the rest of the setup tabs, typically no other settings will need to be changed:

- Finally click on the green check mark (lower left corner)

Add Receiver Profile 16:25

Enter a name for this receiver:

SP80 0055 Net

Save



The default Receiver Profile Name is usually adequate and will not need to be changed.

- Click the 'Save' button:



You have created a new Receiver Profile for the SP80.

- Next we need to make/edit the Network definition. Click on the '>' button to move to the next settings tab:



- If the network you want to connect to is already defined, click on the 'Gear' button to the right of the correct network. If the network is not defined, click on 'Add Network...':



Set all of the settings to match your network. Use caution on the User Name and Password as they are case sensitive.

- Click the green check mark to return to the Network Settings tab:



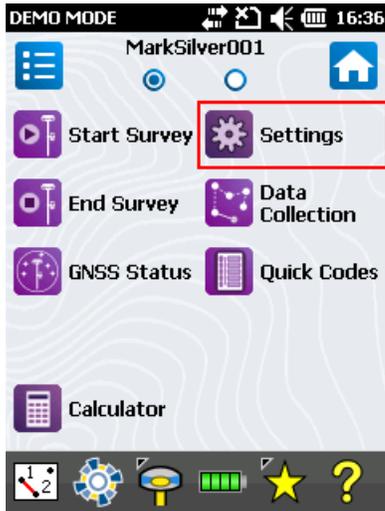
- You can optionally use the '>' button to cycle through all of the settings tabs. When you are complete, click on the green check mark (lower left corner) to return to the main menu.

Testing the Network Configuration

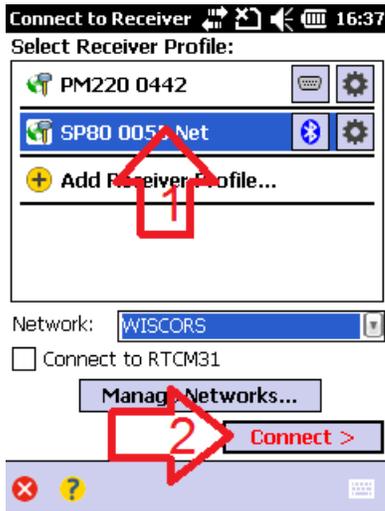
- First look at the display on the SP80. The SP80 should be connected to the WiFi source and a solid, non-blinking WiFi icon will indicate this:



- From the 'Survey' or optionally the 'Home' menu in SurveyPro on the data collector:



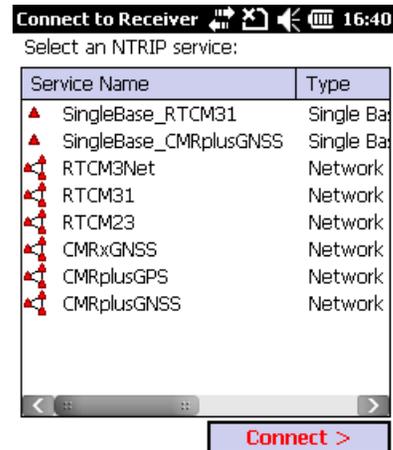
- Click on 'Start Survey':



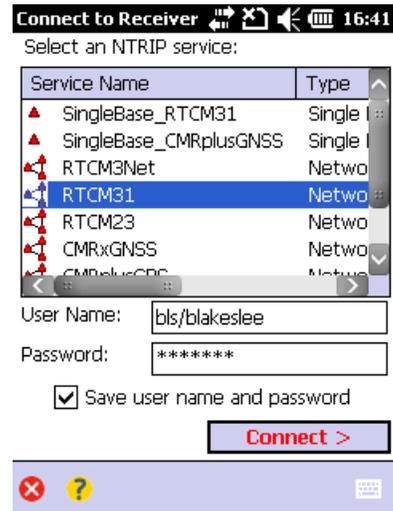
First click on the correct Receiver Profile (SP80 in this case), then choose the correct Network in the drop down box.

- Click on the 'Connect >' button. After a moment you will be shown the Mount Table

that has been downloaded from the server:

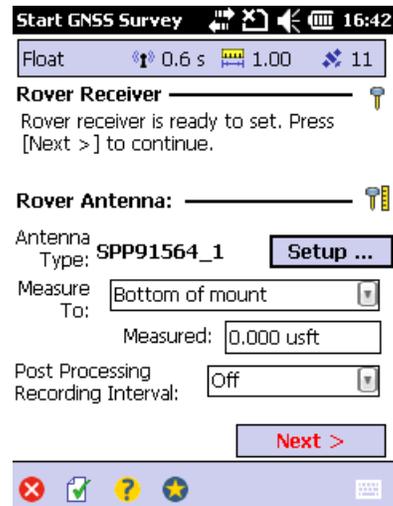


- Click on the correct mount point (usually RTCM31)



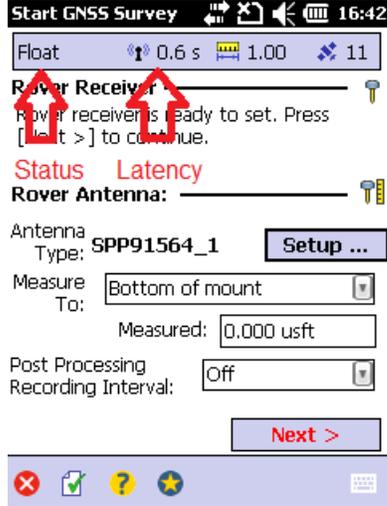
Verify the 'User Name', assume the Password is correct.

- Click on the 'Connect >' button:

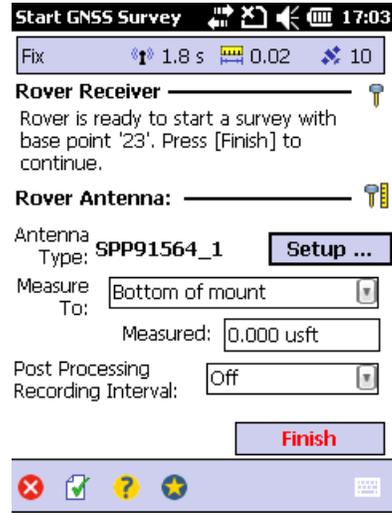


Wait for 'Rover receiver is ready to set...'
message.

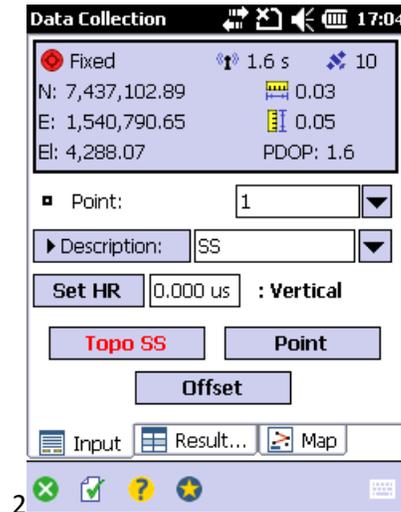
Notes that if you are receiving corrections
then the receiver will display 'FLOAT' and
the latency will be less than 3 seconds:



7. Wait for the receiver to show 'FIXED'



8. Click 'FINISH >'



You are ready to survey!