

## Setting up an SP80 using SurveyPro as a Network Rover

By: Mark Silver, ms@igage.com Date: 9 January 2015

Rev: 002

🗱 🎦 帐 🎟 16:07

**Receiver Profiles** 

>

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



\_ 🔕 Internal GPS PM220 0442 \_ ٥ 📍 Demo Mode \_ Ö 🕂 Add Receiver Profile... Import... Export... 😣 🕐 🚷 4. Click on 'Add Receiver Profile...': Add Receiver Profile 讲 🎦 帐 🎟 16:07 Spectra Auto-Configure: Start > Manual Configuration: Brand: Spectra Precision Model: SP80 😢 Connect with: Bluetooth Bluetooth Device: Bluetooth Settings... Connect > ? 🗘

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



5.	Click on 'Bluetooth Settings'	8.	Click 'Add Selected':
	Bluetooth Instrumer 🚛 🎦 📢 🎟 16:08		Set PIN
			Name: <u>BP_500055</u>
			Set Bluetooth PIN:
	Start Scan		
	Windows Bluetooth		
	⊗ ?		🐑 😣 🥐
6.	Click on 'Start Scan'		Leave 'Set Bluetooth PIN' unchecked.
	Bluetooth Scan 🛛 🦨 🎦 🗲 🏛 16:08	9.	Click the green check mark in lower left
	Please Wait		
	searching for new Bidecooth devices		Spectra Auto-Configure:
			Start >
			Manual Configuration: —————
			Brand: Spectra Precision 💽
	••		Model: SP80
			😮 Connect with: Bluetooth 🔣
	Select All Select None		SP 500055 (B0B4486E6BA2):
	Rescan Add Selected		Bluetooth Settings
	⊗ ?		Connect >
7.	Wait for search to complete:		
	Bluetooth Scan 📰 🎦 🌪 🎟 16:09		
	MARK13		Make sure the new device is selected in the
	SP_500055		Bluetooth Device: dropdown list.
	Select All Select None		
	Rescan Add Selected		
	8 ?		
	Then check the box next to the SP80 (if you		

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



10.	Click on the 'Conne	ect >' button:	l
	New Receiver		
	Grand Setup Type: Network	ork Rover 🔃	
	Elevation Mask: 8		
	Set to OFF r	node	
	• • •		
	On the 'Survey' tak	, select 'Setu	p Type =
	Network Rover' an	d set the elev	ation mask
11	to something reaso	onable. top to move t	o the next
11.	setun tah:		
	New Receiver	Ž] <b>€ @</b> 16:14	
	< Modem	<b>I</b> >	
	🔇 Modem: 🛛 Internal V	Vi-Fi 💽	
	🔽 Enable Wi-Fi		
		WPA2-PSK	
	III MIFI-AFO3FB	WPA/WPA	
	JUSAXROMNEY	WPA2-PSK WPA2-PSK	
	M bearerOFtheBURDEN	N WPA2-PSK	
	CableWiFi	Open WPA2-PSK	
	Refresh	Add	
	📀 😣 📀		

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:

New Receiver 🛛 💭 🎽	) 📢 🎟 16:15
< Modem	<b>V</b> >
🔇 Modem: 🛛 Internal Wi-I	Fi 🔳
🔽 Enable Wi-Fi	
III IGAGE	WPA2-PSK
MiFi-AF03FB	nect PSK
III SAXRGUEST	WPA2-PSK
👬 bearerOFtheBURDEN	WPA2-PSK
👬 CableWiFi	Open
, ill	WPA2-PSK
Refresh	Add
Ø 😣 ?	

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

13. On the Network ID dialog:

Add Wi-Fi Network	🛱 🎦 🗲 🎟 16:16
Network SSID:	
MiFi-AF03FB	
Security:	
WPA2-PSK	V
Key:	
E6E	

123	1	1	2	3	4	5	6 6	7	8 '	9	0	-	=	+
Tal	2	q	W	1	9	r	t	y	u	i	0	р	]	]
CA	P	а		5	d	f	g	h	j	k	Ι	;	•	Τ
Shi	ft	Z	2	х	C	T٧	Ľ	1 0	ח ר	n,		1	1	÷-
Ctl	á	ü	`		١						Ť	Ť	←	→
		6	•	6	2								Æ	8
v		ч	۷.		i.									

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

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





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



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### ✓ S ? Check settings...

- 17. 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:

Enter a name for this receiver:
3P80 0055 Net
Save

😣 🥐 😳

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



19. Click the 'Save' button: Settings 🛛 👫 🎦 🗲 🎹 16:26 < Receiver Profiles **Receiver Profiles** 🔕 Internal GPS \_ ኛ PM220 0442 \_ 0 📍 Demo Mode O 🐨 SP80 0055 Net 🕂 Add Receiver Profile... Import... Export... Ø 😣 🥐 🚯

You have created a new Receiver Profile for the SP80.

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



21. 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...':

Network Set	tings 💦 👫 🎦 📢 🎟 16:30
Name:	WISCORS
ኛ Setup T	ype: Network Rover 🛛 💽
Server Type	Automatic 🔻
Address:	130.47.252.87
Port:	2101
User Name:	bls/blakeslee
Password:	*****
Force NT	RIP Password

# 

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

22. Click the green check mark to return to the Network Settings tab:

Settings 👘	🞦 🗲 🎟 16:32
< Networks	• >
🔇 Networl	(S
🖣 FPRN	\$
🖣 IGAGE	•
🕤 WISCORS	\$
🕂 Add Network	
Address: 130.47.252.87 :	2101



23. 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:





2. From the 'Survey' or optionally the 'Home'





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

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Connect

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

#### that has been downloaded from the server: Connect to Receiver # 참 속 16:40



 Click on the correct mount point (usually RTCM31)



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

6. 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:

Start GNSS Survey 🛛 👫 🎦 🌪 🎹 16:42
Float 🛛 👔 0.6 s 🔛 1.00 💉 11
Rover Receiver P Rover receiver is ready to set. Press [list >] to commune.
Status Latency Rover Antenna: — 1
Antenna Type: SPP91564_1 Setup
Measure Bottom of mount 💽
Measured: 0.000 usft
Post Processing Recording Interval:
Next >
😢 🖌 ? 😒 🚥

7. Wait for the receiver to show 'FIXED'

Fix	📲 1.8 s 🛱	🛱 0.02 🛛 ጰ 10
Rover Ro Rover is r base poir continue	e <b>ceiver</b> ready to start a nt '23'. Press [F	survey with inish] to
Rover A	ntenna: ——	î
Antenna Type: <sup>3</sup>	SPP91564_1	Setup
Measure	Bottom of ma	ount 💽
10.	Measured:	0.000 usft
Post Proc Recording	essing Of J Interval: Of	f 🔳
		Finish
8	<b>?</b>	×22
Click 'F	INISH >'	
Data Co	ollection	#ど€@17
🥹 Fixe N: 7,4:	ed <b>1</b> 37,102.89	) 1.6 s 🛛 🕺 10 📟 0.03
E: 1,5 El: 4,2	40,790.65 38.07	<u>]</u> 0.05 PDOP: 1.6
E: 1,5 El: 4,2 Poi	40,790.65 88.07 nt:	0.05 PDOP: 1.6
E: 1,5 El: 4,2 ■ Poi	40,790.65 88.07 nt: zription: SS	0.05 PDOP: 1.6
E: 1,5 EI: 4,2 ■ Poi ▶ Desc Set I	40,790.65 88.07 nt: ription: SS <b>-IR</b> 0.000 us	I     0.05       PDOP: 1.6       1       •       •       •       •       •       •
E: 1,5 EI: 4,20 ● Poi ● Desc Set I	40,790.65 38.07 nt: :ription: SS <b>-IR</b> 0.000 us <b>opo SS</b>	O.05 PDOP: 1.6 I Vertical Point
E: 1,5 EI: 4,21 Poi Desc Set I	40,790.65 38.07 nt: _ription: SS -IR 0.000 us opo SS [ Offse	I   0.05     PDOP: 1.6     I
E: 1,5 El: 4,20 ▶ Desc Set I	40,790.65 88.07 nt: ription: SS <b>HR</b> 0.000 us <b>opo SS</b> [ <b>Offse</b> out <b>E</b> Result	[] 0.05 PDOP: 1.6 [ ]

You are ready to survey!

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