Support Note

GEOSPATIAL JANUARY 2017

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Configuring the receiver and firmware upload from the WebGUI over PPP using Bluetooth wireless technology (Windows 10)

R8s, R8, and R7 GNSS receivers without can be configured and firmware uploaded using a web browser (WebGUI). This topic describes how to set up a Bluetooth PPP to a receiver on the Windows 10 operating system. The computer must be connected to the receiver using Bluetooth wireless technology.

Steps

The steps required are:

- 1. Create a Bluetooth connection between the computer and the receiver.
- 2. Set up and configure the modem hardware.
- 3. Create a Network/Internet connection to access the Trimble receiver through a web browser.

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Section 1 - Creating a Bluetooth connection between the computer and the receiver

1. In the system tray (in the lower right corner of the Windows taskbar), click the Up arrow and then click the Bluetooth icon. From the shortcut menu that appears, select *Add a Bluetooth Device*:

A		V			Add a Bluetooth Device
L	land)	• ••		Bluetooth Devices	Allow a Device to Connect
-		~			Show Bluetooth Devices
9	9		*	Contraction of the local division of the loc	Send a File
				and the second se	Receive a File
5		œ	4		Join a Personal Area Network
		~ 📼	<i>(</i> ∈ ∩	1:55 PM	Open Settings
			17. 11	1/6/2017	Remove Icon

2. Windows 10 searches for the Bluetooth device. Ensure that Bluetooth is switched on. Match the model and serial number to the one shown on the screen. The Device name will match the model and serial number of your receiver. Select the correct device by clicking on it:

Manage Bluetooth devices



💽 On

Your PC is searching for and can be discovered by Bluetooth devices.



R8s, R8SLJW6005: Trimble Ready to pair

And then click **Pair:**



R8s, R8SLJW6005: Trimble Ready to pair

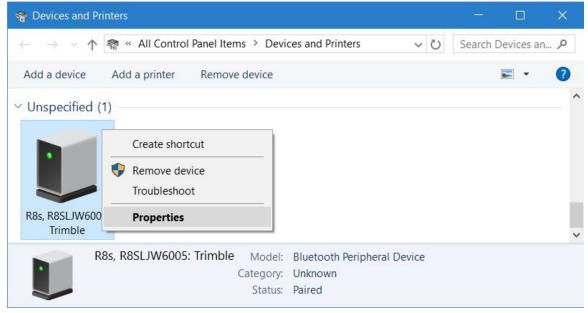
Pair

3. A window appears to enter the passcode for your device. By default, the passcode is 0000. Enter it into the dialog and click **Next**:



Enter the passcode for your device
Enter the passcode for your device
You might need to enter the same passcode into the device. 0000 × Or, try entering a passcode on it.
Next Cancel

4. Once the receiver has been paired, go to *Devices and Printers* in the *Control Panel* and find your device, which is most likely under *Unspecified*. Right click on it and click on *Properties*:



5. In the Services tab, clear the check boxes for COM1 and COM2 services and click "Apply". Take note of the local COM port for COM3 (this is COM5 in the example below). You will need to know this COM



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port for Section 2, Step 4. Once you have cleared the check boxes, click "OK:

🔋 R8s, R	8SLJW600	5: Trimble	Properties	;
General	Hardware	Services	Bluetooth	
Blueto		ie check bo	ice offers the following service ox.	s. To use a service,
Se	rial port (SF rial port (SF	P) 'COM1'		
✓ Se	rial port (SF	P) 'COM3'	COM	5

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Section 2 - Setting up and configuring the modem

1. In the *Control Panel*, go to *Phone and Modem* and select the *Modems* tab:

Phone and	Modem			
aling Rules	Modems	Advanced		
	he followin	g modems are in	stalled:	
Modem			Attach	ied To
		Add	Remove	Properties

2. Click Add. The following wizard appears:

Add Hardware Wiza	rd					
Install New Mode Do you want W		etect your mode	em?			
	Col	 If the mode computer, r Quit any pri the modem Quit when y 	iould: im is attached to make sure it is tu ograms that may ou are ready to o	ned on. be using	Y	
				< Back	Next >	Cancel

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3. Select the *Don't detect my modem; I will select it from a list* check box and then click **Next.** Once the list populates, select the *Communications cable between two computers* option and then click **Next.**

Note - Even though you are using a Bluetooth connection, you are figuratively using it as a "cable" between the receiver and the computer:

Add Hardware Wizard		
Select the manufacture an installation disk, clic	r and model of your modem. If your modem is not k Have Disk.	: listed, or if you have
Manufacturer (Standard Modern Types)	Models	mputers
Standard Cell Phones	Parallel cable between two computers Standard 300 bps Modem Standard 1200 bps Modem	, and the second s
This driver is digitally signed <u>Tell me why driver signing is</u>	l falle dan dan bertara dan L	Have Disk
	< Back Next	> Cancel

4. The COM port you noted earlier (Section 1, Step 5) should be displayed below *Selected ports*. Click the port to select it (in this case, COM5) and then click **Next**:

Add Hardware Wizard	
Install New Modem Select the port(s) yo	u want to install the modem on.
	You have selected the following modem:
	Communications cable between two computers
	On which ports do you want to install it? C All ports Selected ports COM3 COM5 COM6 COM7
	< Back Next > Cancel

Once the modem installs, the Bluetooth pairing and hardware setup are now complete.

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Section 3 - Creating an Internet connection

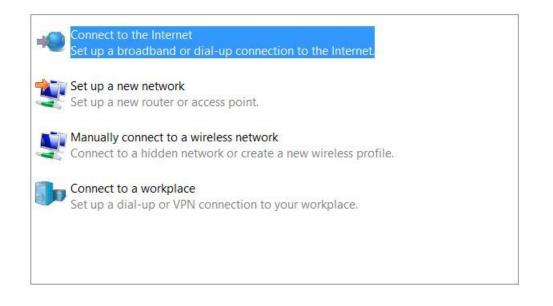
1. In the Control Panel, go to Network and Internet and click the View network status and tasks link:

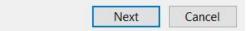
Network and Internet			×	
$\leftarrow \rightarrow ~ \land \uparrow$ 🍆 \land Control Panel $>$	Network and Internet > V	Search (Control Pa	٩
Control Panel Home System and Security	Network and Sharing Center <u>View network status and tasks</u> Connect to a network View network computers and device	es		
Network and Internet Hardware and Sound	HomeGroup Choose homegroup and sharing options			
Programs User Accounts	Internet Options Change your homepage Manage browser add-ons Delete browsing history and cookies	0-[
Appearance and Personalization	Windows Mobile Device Center Change connection settings			
Clock, Language, and Region Ease of Access	Change Connection settings			

2. Click the Set up a new connection or network link:



Choose a connection option

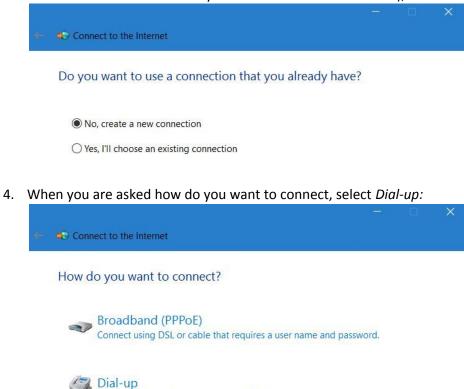






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3. If you are connected to the internet, you will be informed as such and need to select *Set up a new connection anyway*. You will also be prompted if you want to use a connection you already have. If this is the first time setting up the connection for this particular receiver (you have do this process to each individual serial number that you wish to access the WebGUI), select *No, create a new connection:*



5. In the Dial-up phone number field, enter 1. This is a placeholder number that you will delete later. after you enter it you will be able to click **Connect**:

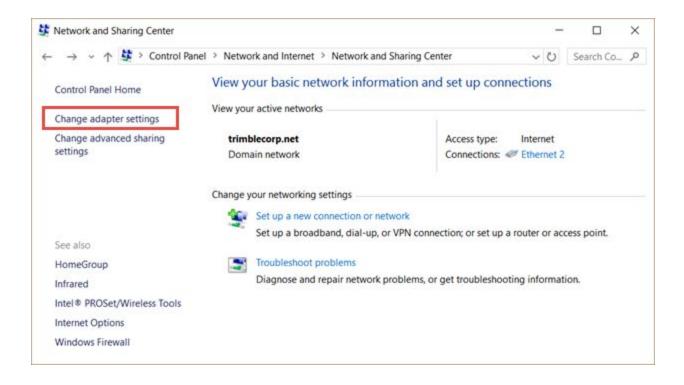
Turne the information	for an and the second sec	ider (ICD)
Type the information	from your Internet service prov	nder (ISP)
Dial-up phone number:	1	Dialing Rul
User name:	[Name your ISP gave you]	
Password:	[Password your ISP gave you]	
	Show characters	
	Remember this password	
Connection name:	Dial-up Connection	
Illow other people	to use this connection	
This option allows a	nyone with access to this computer to use	this connection.
I don't have an ISP		
		Connect

Connect using a dial-up modem or ISDN.



6. You will be informed that your connection is ready to use. Go to *Network and Internet* in the *Control Panel,* and your *Dial-up Connection* is there. *Network Connections* can also be found in *Network and Sharing Center* under *Change adapter settings*:

	🗽 « Netwo	rk and Internet). Natural Connections	55 a.	2.5	Correcto	New York	
- → ° T	🛫 « Netwo	rk and Internet > Network Connections	~	Ö	Search	Network C	-
Organize 🔻	Connect To	Disable this network device »				•	(
Name	^						
Bluetooth Ne							
Cisco AnyCo	nnect Secure N	lobility Client					
Dial-up Conr	nection						
JEthernet							



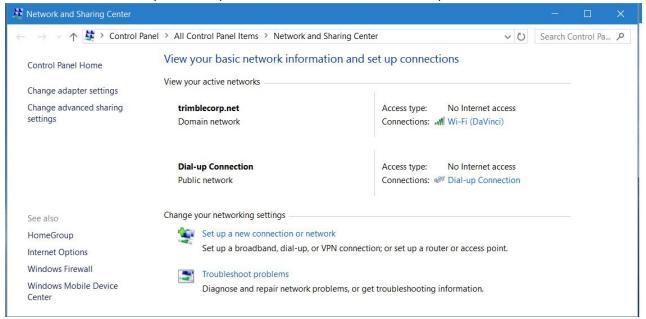




7. Right-click the *Dial-up Connection* link and then from the shortcut menu that appears select *Properties*. In the Phone number field, remove the placeholder "1" and then click **OK**:

Phone numb	er	Configure
Area code	Phone number:	
	× 1	Alternates
Country/re	gion code:	
		<i>v</i>
Use di	aling rules	Dialing Rules

8. You can now connect to your *Dial-up Connection*. Double click on *Dial-up Connection*:

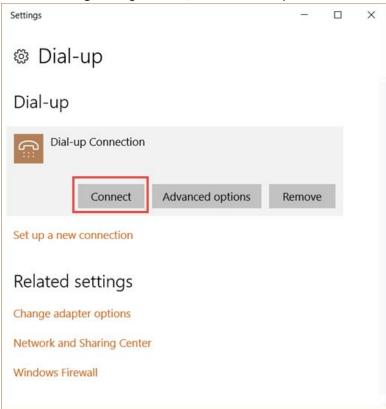


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In the resulting Settings screen, click the Dial-up Connection to expand the menu and click Connect:



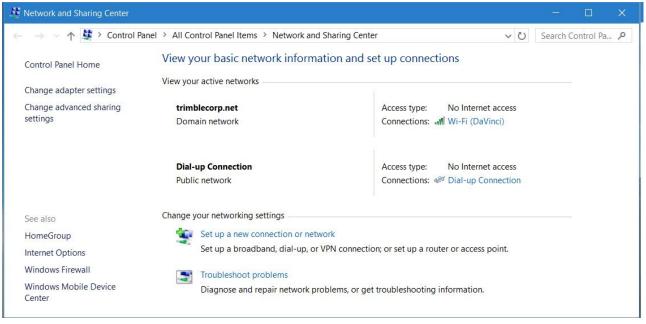
Once you do, you will get the following screen:

💐 Connect I	Dial-up Connection	×
User name: Password:	<u> </u>	
O Me on	user name and password for the follow ly e who uses this computer	ving users:
Dial:		~
Dial	Cancel Properties	Help

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9. Click **Dial.** You do not need to fill out any of the information. Now go back to the *Network and Sharing Center.* Your connection is there:



10. Next to your dial-up connection, click on the blue *Dial-up Connection* link. One of the following screens will appear:

Dial-up Connection Status X		Network Connection Details		>
eneral Details		Network Connection Details:		
	1	Property Connection-specific DNS S	Value	
Property	Value	Description	Dial-up Connection	
Device Name	Communications cable between t	Physical Address		
Device Type	modem	DHCP Enabled	No	
Authentication	(unknown)	IPv4 Address	192.168.100.171	
		IPv4 Subnet Mask	255.255.255.255	
Compression	(none)	IPv4 Default Gateway		
PPP multilink framing	Off	IPv4 DNS Server	192.168.100.170	
Client IPv4 address	192.168.100.171	IPv4 WINS Server		
Server IPv4 address	192.168.100.170	NetBIOS over Tcpip Enabl	No	





- 11. In the *Details* tab, note the *Server IPv4 address* or in the *Network Connection Details* tab, note the *IPv4 DNS Server address*. This is the IP address to connect to the receiver WebGUI.
- 12. Enter the IP address in your browser. When the login screen appears, enter the user name and password. The default settings for a Trimble GNSS receiver are: User Name: admin

Password: password		
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← → C ① 192.168.100.17	0	☆ 🖸 :
👖 Apps 🝥 Trimble.com 🗋 Intra	net 👃 Google Drive 🛱 eJIRA 🙀 Survey Jira 🝥 TestTrack 🛛 TBC Krakatoa Board	» Other bookmarks
Receiver Status	Login	R8s R8s Trimble , R8s
Satellites	User Name:	
Data Logging	Password:	
Receiver Configuration	OK	
I/O Configuration		
Bluetooth		
Radio		
Network Configuration		
Security		
Firmware		
Help		

13. Click **OK.** You are now connected to your receiver through the WebGUI.

