



Digi Cellular Application Note

Configuring and using the Socket Tunnel feature on Digi Connect Wan 3G

1. Configure a Digi Connect Wan 3G to create a secured socket tunnel to a device.

Objective: Configure the Socket Tunnel feature of a Digi Connect Wan 3G to be able to access the web interface of a Digi Connect SP through the SSL socket.

1.1 Software Requirements

- Digi Device Discovery
- PuTTY or any Terminal application

1.2 Hardware Requirements

- Digi Connect Wan 3G
- Cellular connection
- Digi Connect SP

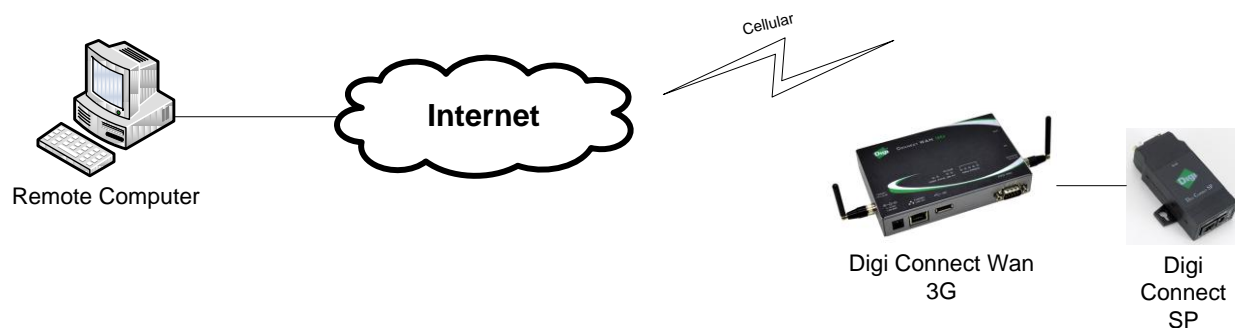
1.3 Configuration Requirements

- Mobile Configuration (SIM Pin, APN)
- Cellular IP network connectivity

2. Scenario

In our example, we will access the web interface of a Digi Connect SP using the socket tunnel from the Digi Connect Wan 3G.

3. Sample diagram.





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4. Step by step instructions

3.3 Connect and configure the devices

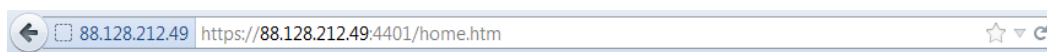
- a) Connect the Digi Connect SP using a cross-over cable to the computer
- b) Using Digi Device Discovery, configure a static IP address to the device such as :
 - a. IP : 10.100.1.213
 - b. Mask : 255.255.255.0
 - c. Default Gateway : 10.100.1.200 (IP that will be assigned to the Digi Connect Wan 3G)
- c) Open a web browser to the configured IP of the Digi Connect SP and navigate to **Configuration>Network>Network Services Settings**, set the **Secure Web Server (HTTPS)** service TCP port to **4401** and click **Apply**.

<input checked="" type="checkbox"/> Enable Web Server (HTTP)	TCP Port: <input style="width: 50px;" type="text" value="80"/>
and Secure Web Server (HTTPS)	TCP Port: <input style="width: 50px;" type="text" value="4401"/>

- d) Connect the cross-over cable to the Digi Connect Wan 3G
- e) Using Digi Device Discovery, configure a static IP address to the device such as :
 - a. IP : 10.100.1.200
 - b. Mask : 255.255.255.0
 - c. Default Gateway : 0.0.0.0 (IP that will be assigned to the Digi Connect Wan 3G)
- f) Open a web browser to the configured IP of the Digi Connect Wan 3G and navigate to **Configuration>Network>Socket Tunnel Settings** and configure as the following :
 - a. Destination Host : 10.100.1.213
 - b. Port : 4401
 - c. Protocol : SSL
- g) Check the **Enable** box, click the **Add** button and click **Apply**.

Enable	Timeout (seconds)	Endpoint	Host	Port	Protocol	
<input checked="" type="checkbox"/>	3600	Initiating:		4401	SSL	Remove
		Destination:	10.100.1.213	4401	SSL	
Maximum number of tunnels have been added						

- h) Connect the corss-over cable between the Digi Connect Wan 3G and the Digi Connect SP
- i) To confirm that the socket is working, try to open a web browser to the WAN (mobile) IP address of the Digi Connect Wan 3G (prior to disconnect the cross-cable, this IP can be found under **(Administration>System Information>Mobile** under the **Mobile Statistics** section) on https and specify the port 4401, the url should look like this :
 - a. <https://xx.xx.xx.xx:4401>



- j) The web interface of the Digi Connect SP is displayed. This setup can also be done using a TCP server instead of the Digi Connect SP, like “netcat” used in our other application notes.