



Port Triggering Setup Guide for VPN Connections

NF20 / NF20MESH

Port Triggering Setup Guide

If you have a VPN client software such as a Cisco VPN client or Nortel connectivity client running on your computer behind the gateway, and if you are not able to connect to a VPN then you can set up a Port Triggering rule to open the required ports. Please contact your VPN provider to know which TCP/UDP ports to open in the Gateway. When you know the port number to be opened then please refer to the instructions below.

Logging in to the web interface of the Gateway

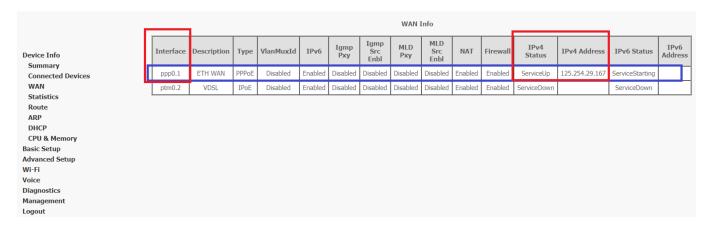
- 1 Connect your computer to the Gateway using a wired or wireless connection. We recommend connecting via Ethernet cable.
- Open a web browser (such as Internet Explorer, Google Chrome, Safari or Mozilla Firefox), type the following address into the address bar and press **Enter**.

http://192.168.20.1

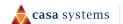
3 Enter the Gateway Login **Username** and **Password** printed on the label at the bottom of the Gateway and click on the **Login** button.



4 Navigate to **Device info-> WAN** and find the interface with **Service UP** in **IPv4 status**. For example, in below provided screenshot Interface **ppp0.1** service is UP. Remember the name of interface for later use.



5 Click on the **Advanced Setup** menu at the left of the page, then click **Port Triggering** option from the **NAT** submenu.







NAT -- Port Triggering Setup

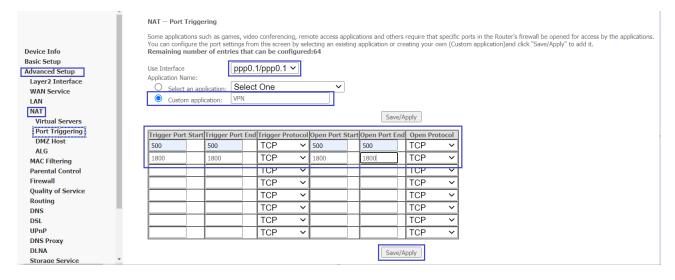
Some applications require that specific ports in the Router's firewall be opened for access by the remote parties. Port Trigger dynamically opens up the 'Open Ports' in the firewall when an application on the LAN initiates a TCP/UDP connection to a remote party using the 'Triggering Ports'. The Router allows the remote party from the WAN side to establish new connections back to the application on the LAN side using the 'Open Ports'. A maximum 32 entries can be configured.

Due to limited resources, port triggering feature has some limitation: sum of the outports of all configuration entries <= 1000 sum of the inports of one configuration entry <= 1000

	Trigger			Open				
Application Name	Protocol	Port Range		Protocol	Port Range		WAN Interface	Remove
		Start	End	Protocor	Start	End		

Add Remove

- 6 Click on Add then select correct interface in Use interface field which you have from step 4. Select © Custom application and type an Application Name. Example: VPN as shown in step 7 screenshot
- Add the **Port Start** and **Port End** (range of ports that you want to open) as provided by your VPN provider to open the ports. Select port type UDP or TCP as per the information provided by your VPN provider. click on Apply/Save.



8 When the port triggering rules have been created as shown below, you should be able to establish your VPN connection.



Device Info Basic Setup Advanced Setup Layer2 Interface WAN Service LAN NAT Virtual Servers Port Triggering DMZ Host ALG MAC Filtering Parental Control Firewall Quality of Service Routing DNS DSL UPnP

DNS Proxy

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Add Remove

	Application Name	Trigger			Open				
		Protocol	Port Range		Ducto cal	Port Range		WAN Interface	Remove
			Start	End	Protocol	Start	End		
	VPN	TCP	500	500	TCP	500	500	ppp0.1	
	VPN	TCP	1800	1800	TCP	1800	1800	ppp0.1	



