



**Port Forwarding Setup**  
(3G41WT)

## **Port Forwarding**

Port forwarding enables programs or devices running on your LAN to communicate with the internet as if they were directly connected.

This is most commonly used for VOIP ATA devices or online gaming (via game console or computer).

Port forwarding works by "forwarding" a specific TCP or UDP port from the modem / router to the computer or device you are using.

You can also restrict which incoming connections will have the rule applied to it. This enables you to specify all incoming connections, from a specific subnet or from an individual IP address.\*



Different services and different games all use different TCP or UDP ports.

You will need to consult any information supplied with your service or game in order to find which ports need to be forwarded.



You can only forward a port to **one** location (IP address).

In some cases, this may cause issues when multiple LAN devices (computers, game consoles, or VOIP ATAs) attempt to use online gaming at same time or make multiple VOIP service connections.

In these cases, you would need to use an alternate port for any subsequent connections after the first device.

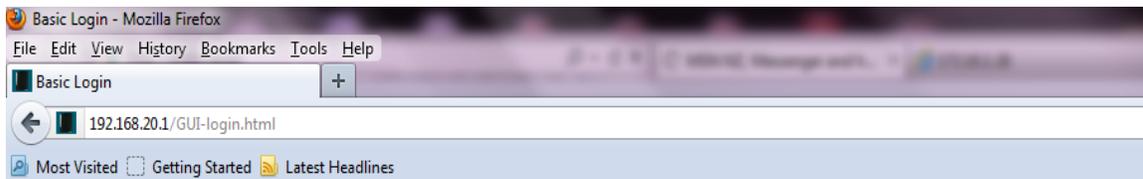
Please consult your VOIP provider or game manufacturer for assistance with this.

\* - If supported by your model of modem / router.

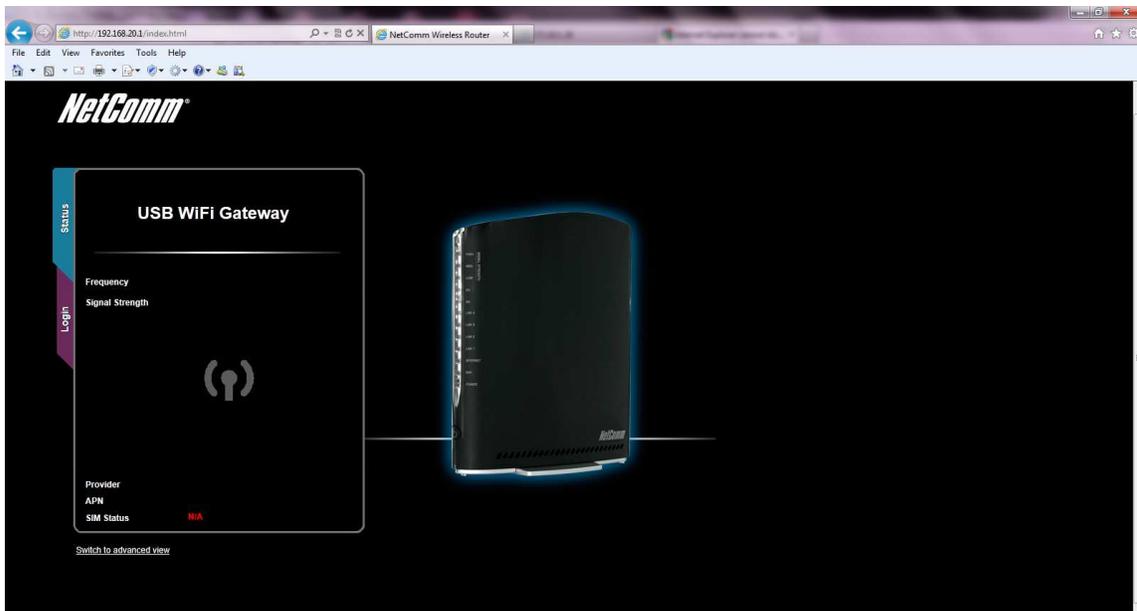
## **Adding a Port Forwarding Rule**

This guide will take you through the steps required to add a port forwarding rule to your modem / router.

1. Open your web browser and navigate to the site <http://192.168.20.1>



2. Click on "Switch to advance view" at the bottom of the window.



3. Use admin for the username and admin for the password. Click Submit



The screenshot shows the NetComm USB WiFi Gateway login interface. At the top, there is a blue header with the NetComm logo and the text "USB WiFi Gateway". Below the header is a green navigation bar with links for Home, Status, Login, and Log. The main content area is titled "Login" and contains a form with two input fields: "User Name:" with the text "admin" and "Password:" with five dots. Below the form are two buttons: "Submit" and "Clear".

4. Click on Services, Select Routing and then select NAT.



The screenshot shows the NetComm USB WiFi Gateway configuration page. The top navigation bar is green and contains links for Home, Status, Internet Settings, Wireless LAN, Services, and System. The Services menu is expanded, showing a list of options: Routing, DDNS, NTP, System Monitor, Static, RIP, NAT, and DMZ. The NAT option is highlighted. Below the navigation bar, there is a "System Information" section with a "System Up Time" of 01:18:45.

5. Set the Mapping no to number 1 if this is your first Port Forwarding Rule
6. Select the protocol to be used for the port forwarding rule. Options include TCP, UDP or TCP/UDP both.
7. Set your Source IP to 0.0.0.0
8. Enter the Port number or port range into the Incoming Port Range fields.
9. Enter the IP address of the computer or device to which you will be port forwarding to in the Destination IP Address Field. This will be a local IP Address between the range of 192.168.20.2 to 192.168.20.254.
10. Click on Save NAT.

The screenshot shows the NetComm USB WiFi Gateway web interface. The breadcrumb trail is Services > Routing > NAT. The 'IP Mapping Settings' form is filled with the following values:

- Mapping no: 1
- Protocol: TCP
- Source IP Address: 0 . 0 . 0 . 0
- Incoming Port Range: 5060 - 5060 (range 1-65535)
- Destination IP Address: 192 . 168 . 20 . 4
- Destination Port Range: 5060 - 5060 (range 1-65535)

A 'Save NAT' button is visible below the form. Below the form is a table with the following columns: Item, Protocol, Incoming Address, Incoming Port, Destination Address, and Destination Port. The table is currently empty, with the text 'IP mapping Table empty' displayed below it.

11. The Port Forwarding Rule will be displayed as follows.

Item	Protocol	Incoming Address	Incoming Port	Destination Address	Destination Port	
0	tcp	0.0.0.0	5060 - 5060	192.168.20.4	5060 - 5060	<a href="#">Delete entry</a>

**Please note:** Some services require more than one port forwarded. You can do this by specifying a sequential range of ports instead of just one.

**For example:** 6881-6999.

To do this, you would enter "**6881**" in the "**Port Start**" fields and "**6999**" in the "**Port End**" fields for both the "**External Packet**" and "**Forward to Internal Host**" sections.



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