

MAC Address Filtering Setup (3G17Wn)



MAC Address Filtering

MAC address filtering refers to the process of allowing (or denying) access to your wireless network based on the hardware address of the device attempting to connect.*

This Wireless MAC address is usually printed on the underside of the device you are attempting to allow (or deny) access to.

Ensure you are making any MAC address filtering configuration changes from an ethernet connected computer.



If you are not able to do this, remember to add the MAC address of the computer you are making the configuration changes from to the allowed access list.

You will lock yourself out of the wireless network if you do not and an ethernet connection will be required.



Enabling MAC Address Filtering

This guide will take you through the process of enabling MAC address filtering.

- To find the MAC address of your computer's wireless network card select Start > All Programs > Accessories > Command Prompt.
- 2. Type "ipconfig /all" (not including the quotation marks) and press enter.





3. Find and record the **physical address** of your wireless network card on your computer. This is the **MAC address** of the wireless network card. Also note the IP address of your wireless network card. It is best practice to make sure your IP address has been statically assigned so that the IP address does not change on restarting either the pc or the router. To set a static IP address please see <u>http://www.netcomm.com.au/support/frequently-asked-questions/networking-settinga-static-ip-address</u>

The recommended IP address details are:

IP address : 192.168.20.101 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.20.1 Preferred DNS: 192.168.20.1 Alternate DNS: 4.2.2.2

- 4. Navigate to <u>http://192.168.20.1</u> in a web browser using admin as the default username and password.
- 5. Select Firewall > MAC / IP / Port filtering.

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irewall > MAC/IP/Port Filtering Settings MAC/IP/Port Filtering Settings MAC/IP/Port Filtering Settings MAC/IP/Port Filtering MAC/IP/Port Filtering MAC/IP/Port Filtering MAC/IP/Port Filtering MAC/IP/Port Filtering MAC/IP/Port Filter Settings MAC/IP/Port Filter Settings MAC/IP/Port Filter Settings MAC/IP/Port Filter Settings MAC address Do:14:A5:7A:63:EE Dest IP Address Do:14:A5:7A:63:EE Protocol None Dest Port Range Maccing Macci	taba ditarret settings	f Wheese settings in Firewall	Administration
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- 6. Set **MAC / IP / Port filtering** to enable and change the **Default Policy** to suit either to accept or deny data packets that do not match the filtering rule you are to create.
- 7. Enter the **MAC address** of your wireless network card. Enter a colon ":" between each set of two characters as per the example above.
- 8. Enter the **Destination IP address**, the IP address of the wireless network card of your pc or other wireless network device.
- 9. Enter the **Source IP address**, the WAN or external IP address from where the data packets originate. If you are unsure of this address enter 0.0.0.0 which represents any IP address.
- 10. Press **Apply**. The example below highlights the completed rule.

Firewall > MAC/IP/Port filtering									
MAC/IP/Port Filtering Settings									
This page allows you to setup MAC, IP and port filtering rules to protect your network from malicious activity. The filtering can be used to either allow or block certain users and/or ports from accessing the Internet.	rules								
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Current MAC/IP/Port filtering rules in system:									
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00:14:A5:7A:83:EE 192.168.20.101 202.121.232.4 Accept	-								
Others would be dropped -									
Delete Selected Reset									



Port Filtering

In addition to Mac / IP filtering the 3G17Wn has the option of port filtering, to allow or deny data packets throughput across designated ports.

The example below highlights an example of port filtering for port 80 (http traffic).

Firewall > MAC/IP/Port filtering

MAC/IP/Port Filtering Settings									
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Current MAC/IP/Port filtering rules in system:									
No.	MAC address	Dest IP Address	Source IP Address	Protocol	Dest Port Range	Source Port Range	Action	Comment	Pkt Cnt
	00:14:A5:7A:63:EE	192.168.20.101	202.121.232.4	-	-	-	Accept		
Others would be dropped -							-		
Delete Selected Reset									

If you wish to allow or deny traffic across a range of ports enter the start port and then the end port in both the Destination Port Range and the Source Port Range. In addition you will need to enter the MAC address, Destination IP address and Source IP address in the same way as Mac filtering. The example below highlights a completed port filter rule.



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No.	MAC address	Dest IP Address	Source IP Address	Protocol	Dest Port Range	Source Port Range	Action	Comment	Pkt Cnt
	00:14:A5:7A:63:EE	192.168.20.101	202.121.232.4	-	-	-	Accept		-
	00:14:A5:7A:63:EE	192.168.20.101	202.121.232.4	TCP	80 - 80	80 - 80	Accept		-
Others would be dropped -									
Delete Selected Reset									

You will then need to repeat this process for any subsequent devices you want to allow to access your wireless network.