

# 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		
MAC/IP/Port Filtering Settings		
	and port filtering rules to protect your na tain users and/or ports from accessing t	etwork from malicious activity. The filtering ru he internet.
Basic Settings		
MAC/IP/Port Filtering		Enable 😪
Default Policy - The packet that don't	match with any rules would be:	Dropped.
	(Apply Reset	
MAC/IP/Port Filter Settings		
	00:14:A5:7A:63:EE	
MAC address	UU. 14.AJ./A.UJ.LL	
MAC address Dest IP Address	192.168.20.101	
	Characteristic and the second second	
Dest IP Address	192.168.20.101	
Dest IP Address Source IP Address	192.168.20.101 202.121.232.4	
Dest IP Address Source IP Address Protocol	192.168.20.101 202.121.232.4	
Dest IP Address Source IP Address Protocol Dest Port Range	192.168.20.101 202.121.232.4	



- 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 rules can be used to either allow or block certain users and/or ports from accessing the Internet.								
Basic Settings								
MAC/IP/Port Filtering Disable 😪								
Default Policy The packet that don't match with any rules would be: Dropped.								
Apply Reset								
MAC/IP/Port Filter Settings								
MAC address								
Dest IP Address								
Source IP Address								
Protocol None 💌								
Dest Port Range								
Source Port Range								
Action Accept Y								
Comment								
(The maximum rule count is 32.)								
Apply Reset								
Current MAC/IP/Port filtering rules in system:								
No. MAC address Dest IP Source IP Protocol Port Port Action Range Range	n Comment Pkt Cnt							
O0:14:A5:7A:83:EE 192.168.20.101 202.121.232.4 Accep	t -							
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									
This page allows you to setup MAC, IP and port filtering rules to protect your network from malicious activity. The filtering rules can be used to either allow or block certain users and/or ports from accessing the Internet.									
Basic Settings									
MAC/IP/Port Filtering Enable S									
Default Policy The packet that don't match with any rules would be: Dropped.									
(Apply (Reset)									
MAC/IP/Port Filter Settings									
MAC	address		00:14:	A5:7A:63:E	E				
Dest IP Address 192.168.20.101									
Sourc	Source IP Address 202.121.232.4								
Protocol TCP 💌									
Dest	Port Range		80	- 80					
Sourc	e Port Range		80	- 80					
Action Accept V									
Comment									
(The maximum rule count is 32.)									
Apply Reset									
Curre	ent MAC/IP/Port filteri	ng rules in system	n:						
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.



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		-
	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.