

Advanced Filters Setup in DSL-G604T

Please note that with its default settings the router has NAT Firewall enabled. You do not need to change any settings to enable the firewall, your network is already protected. Filters are used to block access to certain sites and services or block access for certain computers.

The examples below show how to set up filters in the DSL-G604T router. Filters are executed by the router from top to bottom until the conditions match.

Example 1. Allow only one computer to access the Internet and block access to the Internet for the rest of the computers.

Example 2. Block access to FTP sites for all computers on your LAN.

Example 3. Block access to certain WEB and FTP sites for the range of computers on your LAN.

Example 4. Only allow certain computer to access your FTP site.

Example 5. Limit access to the network and Internet to certain MAC addresses.

Example 1.

Allow only one computer with IP address 10.1.1.2 to access the Internet and block access to the Internet for the rest of the computers.

First you need to setup a rule which allows outbound traffic for the necessary IP address.

The screenshot shows the web interface of a D-Link DSL-G604T Wireless ADSL Router. The browser address bar shows `http://10.1.1.1/cgi-bin/webcm`. The interface has a sidebar with navigation buttons: UPnP, Port Forwarding, DMZ, Filters (highlighted), Firewall, NAT, ATM, Static Routing, Dynamic Routing, Remote Access, and Wireless. The main content area is under the 'Advanced' tab, showing the 'Filters' configuration page. It includes radio buttons for 'Outbound Filter', 'Inbound Filter', and 'Access List', with 'Outbound Filter' selected. Below is the 'IP Outbound Filter' configuration section with the following fields:

- Source IP: 10.1.1.2 (Single IP)
- Destination IP: (Any IP)
- Source Port: (Any Port)
- Destination Port: (Any Port)
- Protocol: TCP,UDP
- Action: Allow

Buttons for 'Apply', 'Cancel', and 'Help' are visible. At the bottom, a table lists the configured filters:

ID	Source IP	Destination IP	Prot.	Act.	Enable
1	10.1.1.2:Any Port	Any IP:Any Port	Both	Allow	<input type="checkbox"/>

As your last rule you need to setup the filter which blocks all traffic from all computers:

The screenshot shows the web interface of a D-Link DSL-G604T Wireless ADSL Router. The browser address bar shows `http://10.1.1.1/cgi-bin/webcm`. The interface has a navigation menu on the left with buttons for UPnP, Port Forwarding, DMZ, Filters (highlighted), Firewall, NAT, ATM, Static Routing, Dynamic Routing, Remote Access, and Wireless. The main content area is titled "DSL-G604T Wireless ADSL Router" and has tabs for Home, Advanced (selected), Tools, Status, and Help. Under the "Advanced" tab, the "Filters" section is active. It includes a description: "Filters are used to allow or deny LAN or WAN users from accessing the internet or internal Network." There are three radio buttons: "Outbound Filter" (selected), "Inbound Filter", and "Access List". Below this is the "IP Outbound Filter" section, with a description: "Filters are used to allow or deny LAN users from accessing the internet." It contains several form fields: Source IP, Destination IP, Source Port, Destination Port, Protocol (set to TCP,UDP), and Action (set to Deny). At the bottom right of the form are three buttons: "Apply" (with a green checkmark icon), "Cancel" (with a red X icon), and "Help" (with a red plus icon). Below the form is a table with the following data:

ID	Source IP	Destination IP	Prot.	Act.	Enable
1	10.1.1.2:Any Port	Any IP:Any Port	Both	Allow	<input type="checkbox"/>  

You will see the two filter rules in the list.

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Filters

Filters are used to allow or deny LAN or WAN users from accessing the internet or internal Network.

Outbound Filter Inbound Filter Access List

IP Outbound Filter

Filters are used to allow or deny LAN users from accessing the internet.

Source IP: [] ~ [] Any IP

Destination IP: [] ~ [] Any IP

Source Port: [] ~ [] Any Port

Destination Port: [] ~ [] Any Port

Protocol: TCP,UDP

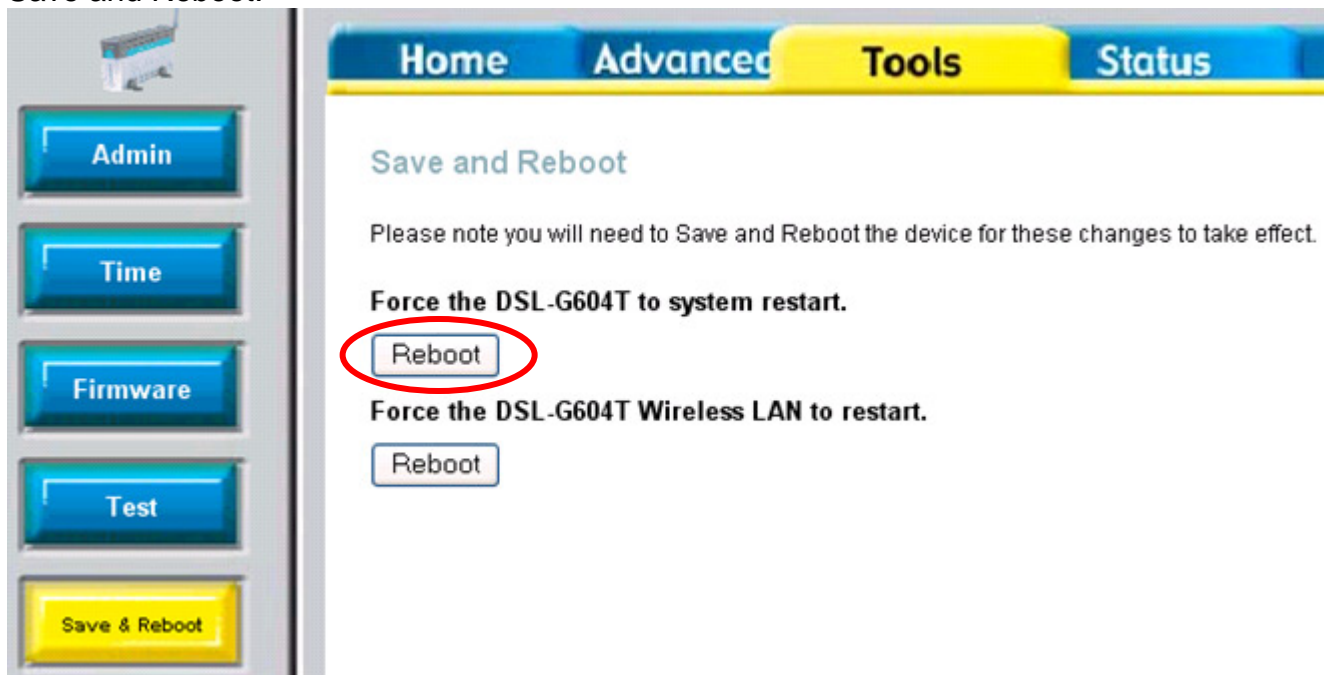
Action: Deny

ID	Source IP	Destination IP	Prot.	Act.	Enable	
1	10.1.1.2:Any Port	Any IP:Any Port	Both	Allow	<input type="checkbox"/>	
2	Any IP:Any Port	Any IP:Any Port	Both	Deny	<input type="checkbox"/>	

Make sure you enable the filters:

Enable

When you are finished with the settings, save them into the router's memory under Tools > Save and Reboot:



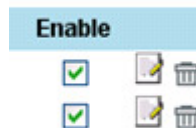
Example 2.

Block access to FTP sites for all computers on your LAN.

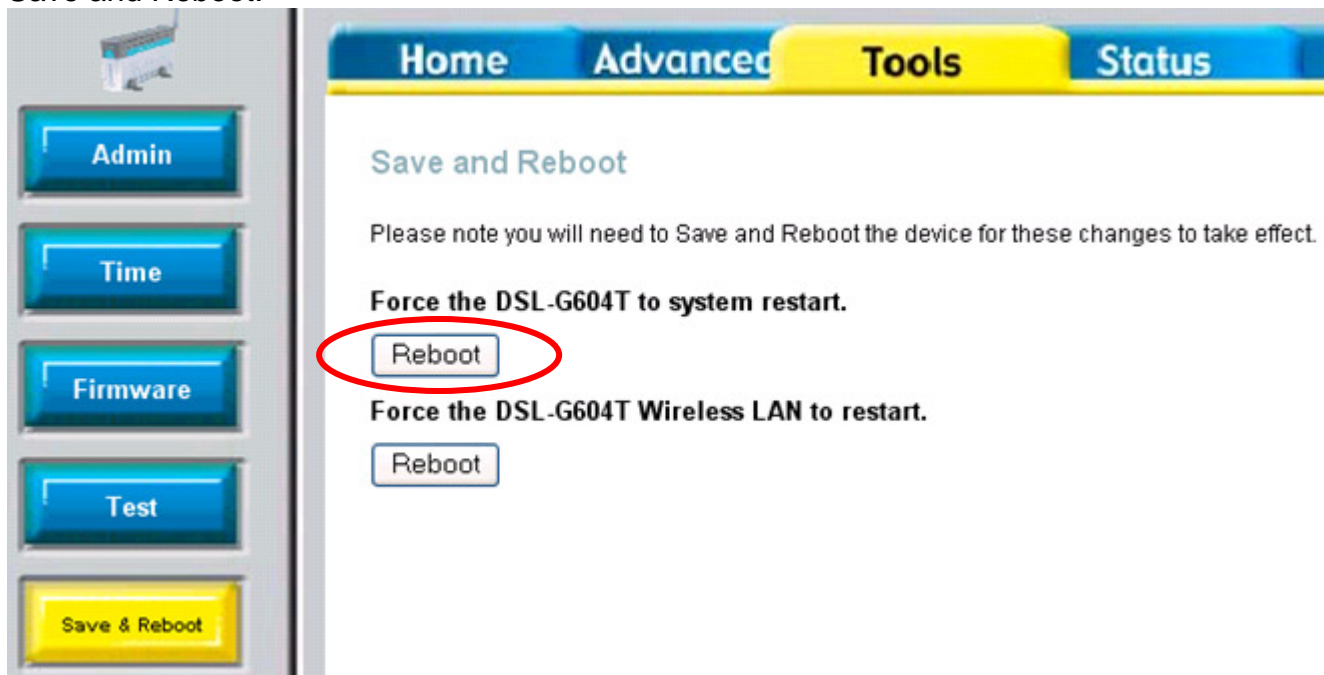
The screenshot shows the web interface of a D-Link DSL-G604T Wireless ADSL Router. The browser address bar shows `http://10.1.1.1/cgi-bin/webcm`. The interface has a navigation menu on the left with buttons for UPnP, Port Forwarding, DMZ, Filters (highlighted in yellow), Firewall, NAT, ATM, Static Routing, Dynamic Routing, Remote Access, and Wireless. The main content area is titled "DSL-G604T Wireless ADSL Router" and has tabs for Home, Advanced (selected), Tools, Status, and Help. Under the "Advanced" tab, there is a "Filters" section. It explains that filters are used to allow or deny LAN or WAN users from accessing the internet or internal network. There are three radio buttons: "Outbound Filter" (selected), "Inbound Filter", and "Access List". Below this is the "IP Outbound Filter" section, which explains that filters are used to allow or deny LAN users from accessing the internet. It contains several input fields: Source IP (empty), Destination IP (empty), Source Port (empty), Destination Port (21), Protocol (TCP), and Action (Deny). There are also "Apply", "Cancel", and "Help" buttons. At the bottom, there is a table of filters:

ID	Source IP	Destination IP	Prot.	Act.	Enable
1	Any IP:Any Port	Any IP:21	TCP	Deny	<input type="checkbox"/>

Make sure you enable the filters:



When you are finished with the settings, save them into the router's memory under Tools > Save and Reboot:



Example 3.

Block access to the WEB site with 203.1.1.1 address, block access to the FTP site with 203.2.2.2 address for the range of computers on your LAN: 10.1.1.8 – 10.1.1.13.

The first rule blocks access to the WEB site (HTTP access on port 80):

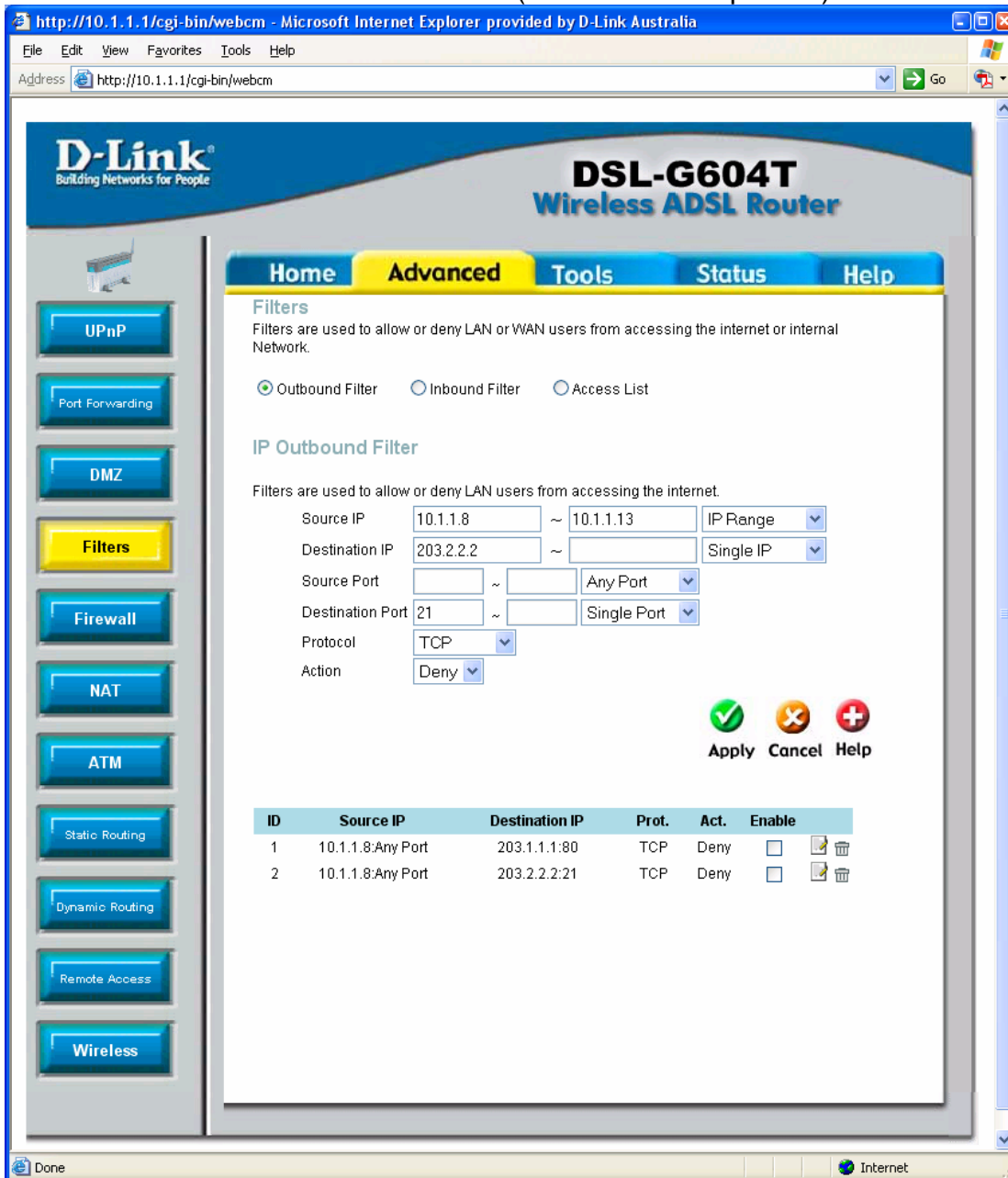
The screenshot shows the D-Link DSL-G604T Wireless ADSL Router web interface. The 'Advanced' tab is selected, and the 'Filters' section is active. The 'IP Outbound Filter' configuration is shown, with the following settings:

- Source IP: 10.1.1.8 ~ 10.1.1.13 (IP Range)
- Destination IP: 203.1.1.1 (Single IP)
- Source Port: Any Port
- Destination Port: 80 (Single Port)
- Protocol: TCP
- Action: Deny

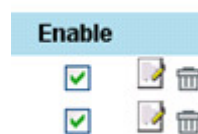
The configuration is applied, and the following table shows the active filter rule:

ID	Source IP	Destination IP	Prot.	Act.	Enable
1	10.1.1.8:Any Port	203.1.1.1:80	TCP	Deny	<input type="checkbox"/>

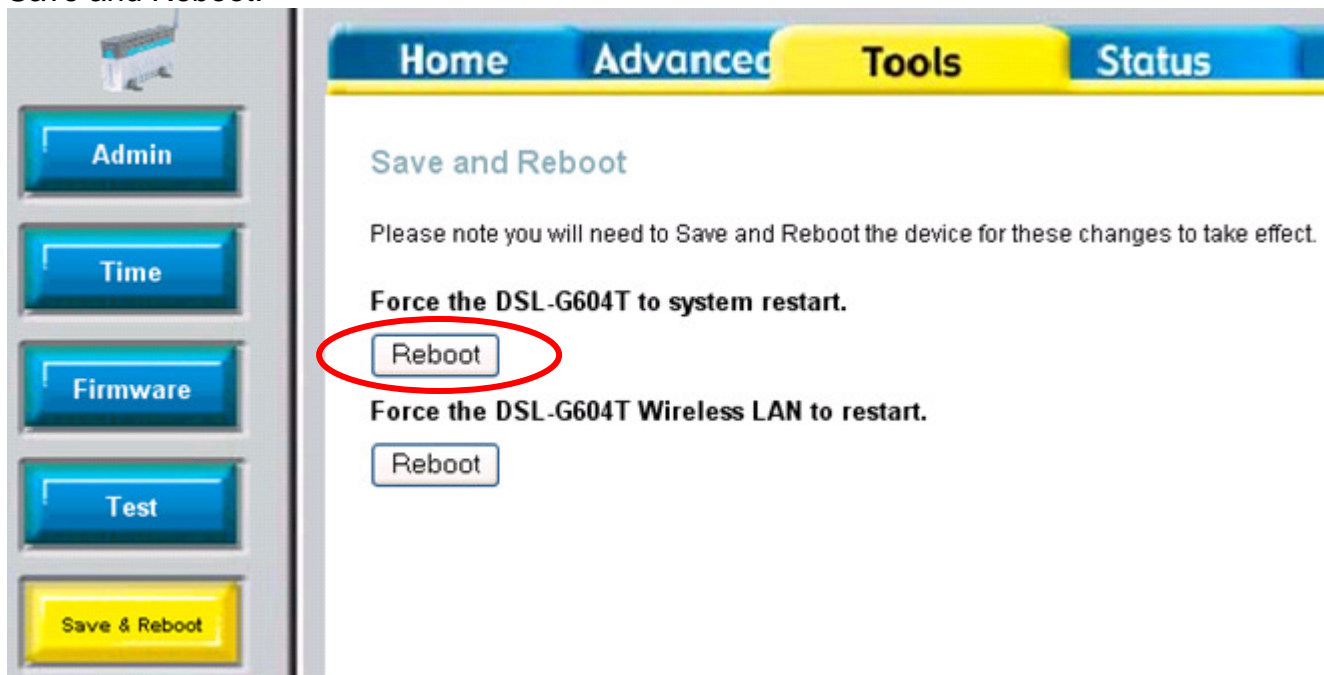
This rule blocks access to the FTP site (FTP access on port 21):



Make sure you enable the filters:



When you are finished with the settings, save them into the router's memory under Tools > Save and Reboot:



Example 4.

Only allow computer with 203.3.3.3 address to access your FTP site (you will need to open port 21 under *Port Forwarding* for your FTP site).

The first filter allows access to the specific IP address to your FTP site:

The screenshot shows the D-Link DSL-G604T Wireless ADSL Router web interface. The 'Advanced' tab is selected, and the 'Filters' section is active. The 'Inbound Filter' radio button is selected. The 'IP Outbound Filter' section is active, showing a filter rule with the following settings:

- Source IP: 203.3.3.3
- Destination IP: Any IP
- Source Port: Any Port
- Destination Port: 21
- Protocol: TCP
- Action: Allow

Below the configuration fields, there are three buttons: Apply (green checkmark), Cancel (orange X), and Help (red plus). A table below shows the filter rule details:

ID	Source IP	Destination IP	Prot.	Act.	Enable
1	203.3.3.3:Any Port	Any IP:21	TCP	Allow	<input type="checkbox"/>

This rule block access to your FTP site for the rest of the IP addresses:

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Outbound Filter Inbound Filter Access List

IP Outbound Filter

Filters are used to allow or deny LAN users from accessing the internet.

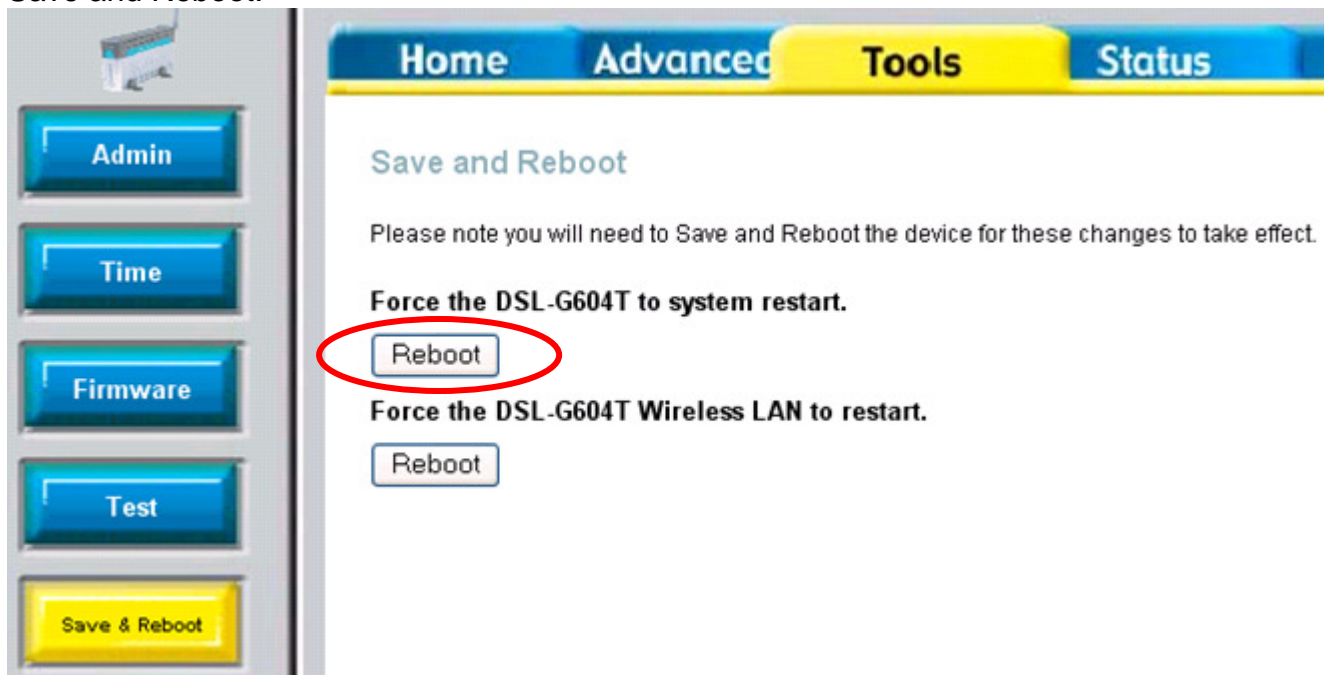
Source IP: [] ~ [] Any IP [v]
Destination IP: [] ~ [] Any IP [v]
Source Port: [] ~ [] Any Port [v]
Destination Port: 21 ~ [] Single Port [v]
Protocol: TCP,UDP [v]
Action: Deny [v]

ID	Source IP	Destination IP	Prot.	Act.	Enable	
1	203.3.3.3:Any Port	Any IP:21	TCP	Allow	<input type="checkbox"/>	
2	Any IP:Any Port	Any IP:21	Both	Deny	<input type="checkbox"/>	

Make sure you enable the filters:

Enable

When you are finished with the settings, save them into the router's memory under Tools > Save and Reboot:



Example 5.

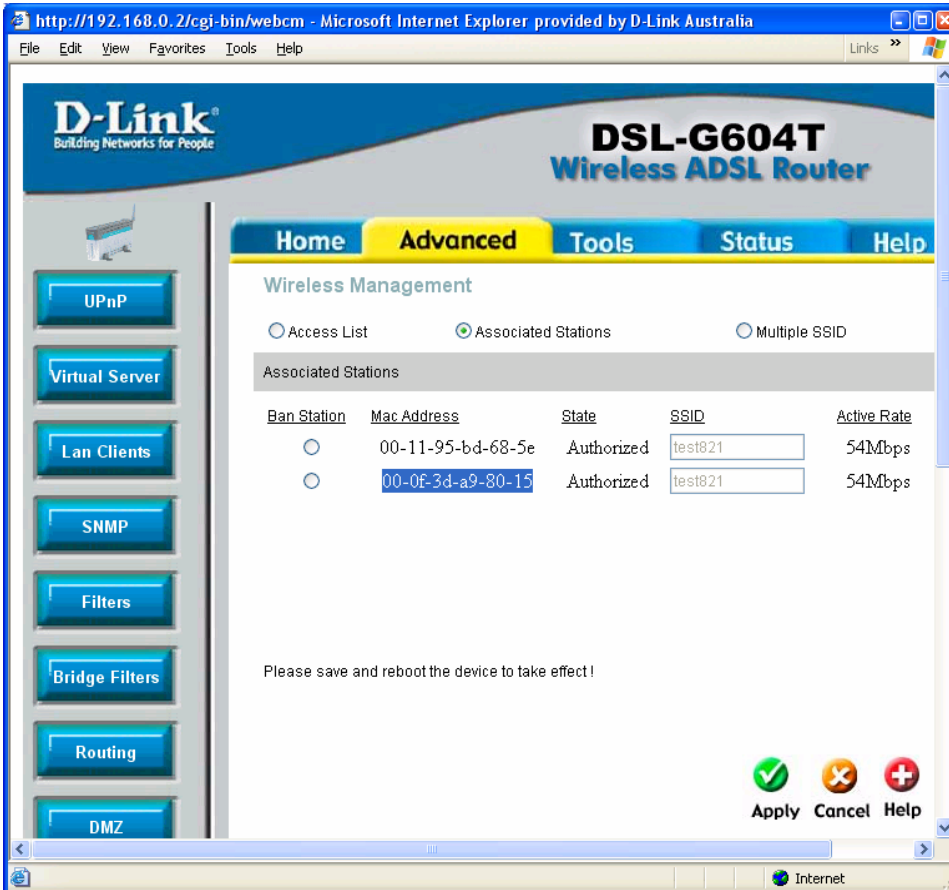
Limit access to the network and Internet to certain MAC addresses (applicable to wireless clients only):

Enable the Access List and specify the MAC addresses of the network adapters which you want to grant access under Allow.



If you are running firmware version above 2.0 you can find MAC filter settings under Advanced > Wireless Management.

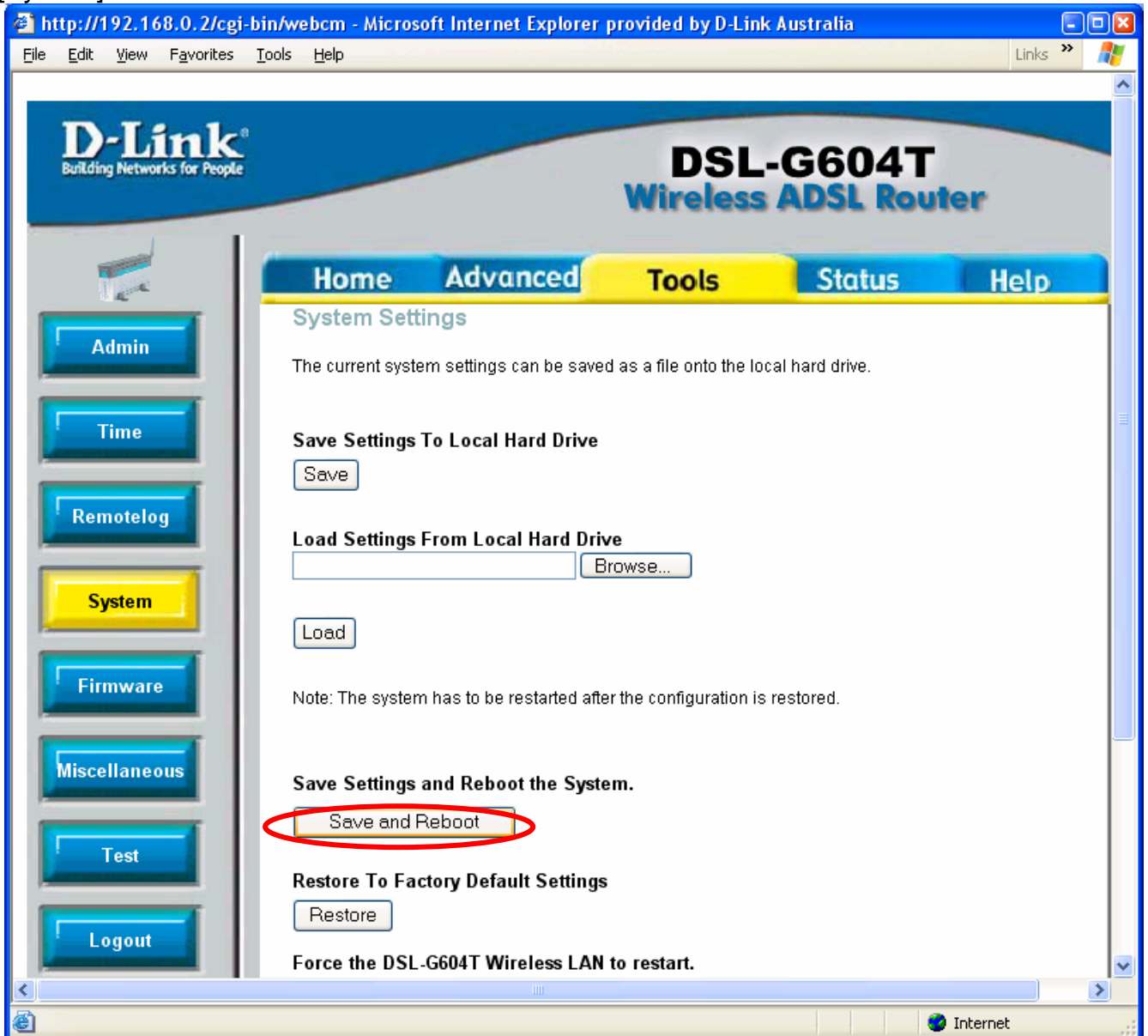
Click on Associated Stations to see the list of connected wireless clients.



Copy and paste the MAC addresses of the workstations which you want to have wireless access through the router under Access List. Click on Add button to add the MAC address. Make sure you have Enable Access List ticked. Click Apply.



When you are finished with the settings, save them into the router's memory under Tools > [System] > Save and Reboot:



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