Advanced > Virtual Server continued

Virtual Servers List Private IP Protocol Behedule ✓ Virtual Server HT-P 192 168 0.25 TCH HT/8 1 dwww. ★★★



Click on this icon to edit the virtual service



Click on this icon to delete the virtual service

Example #2:

If you have an FTP server that you wanted Internet users to access by WAN port 2100 and only during the weekends, you would need to enable it as such. FTP server is on LAN computer 192.168.0.30. FTP uses port 21, TCP.

Name: FTP Server Private IP: 192.168.0.30 Protocol Type: TCP Private Port: 21 Public Port: 2100

Schedule: From: 01:00AM to 01:00AM, Sat to Sun

All Internet users who want to access this FTP Server must connect to it from port 2100. This is an example of port redirection and can be useful in cases where there are many of the same servers on the LAN network.

Advanced > Applications



Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DI-524. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic.

The DI-524 provides some predefined applications in the table on the bottom of the web page. Select the application you want to use and enable it.

Note! Only one PC can use each Special Application tunnel.

Name: This is the name referencing the special application.

Trigger Port: This is the port used to trigger the application. It can be either

a single port or a range of ports.

Trigger Type: This is the protocol used to trigger the special application.

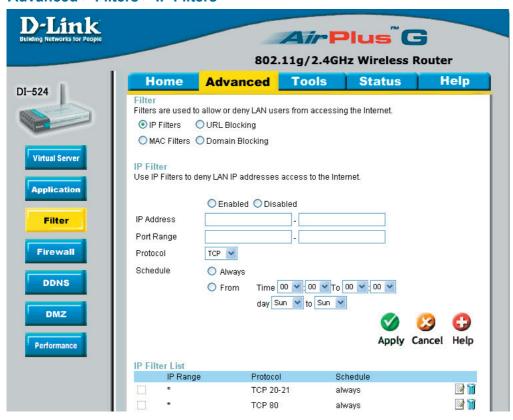
Public Port: This is the port number on the WAN side that will be used

to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or

port ranges.

Public Type: This is the protocol used for the special application.

Advanced > Filters > IP Filters



Filters are used to deny or allow LAN (Local Area Network) computers from accessing the Internet. The DI-524 can be setup to deny internal computers by their IP or MAC addresses. The DI-524 can also block users from accessing restricted web sites.

IP Filters: IP Filter is used to deny LAN IP addresses from accessing

the Internet. You can deny specific port numbers or all ports

for the specific IP address.

IP Address: The IP address of the LAN computer that will be denied

access to the Internet.

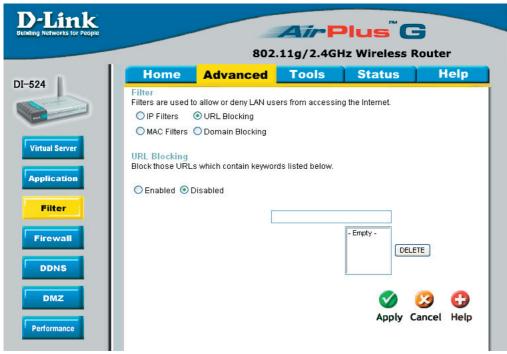
Port Range: The single port or port range that will be denied access to the

Internet.

Protocol Type: Select the protocol type

Schedule: This is the schedule of time when the IP Filter will be enabled.

Advanced > Filters > URL Blocking



URL Blocking is used to deny LAN computers from accessing specific web sites by the URL. A URL is a specially formatted text string that defines a location on the Internet. If any part of the URL contains the blocked word, the site will not be accessible and the web page will not display. To use this feature, enter the text string to be blocked and click **Apply**. The text to be blocked will appear in the list. To delete the text, just highlight it and click **Delete**.

Filters- Select the filter you wish to use; in this case, URL Blocking

was chosen.

URL Blocking- Select **Enabled** or **Disabled**.

Keywords- Enter the keywords in this field. Block URLs which contain

keywords listed below.

Advanced > Filters > MAC Filters



Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the Network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router.

Filters- Select the filter you wish to use; in this case, MAC filters was

chosen.

MAC Filters- Choose Disable MAC filters; allow MAC addresses listed

below; or deny MAC addresses listed below.

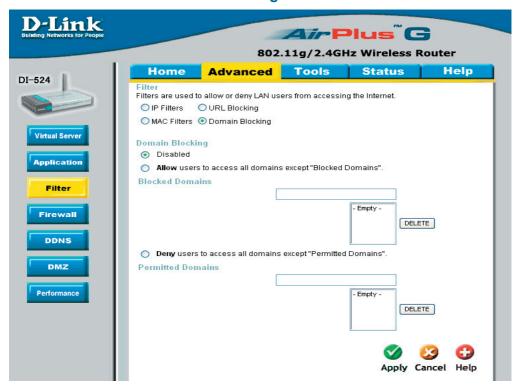
Name- Enter the name here.

MAC Address- Enter the MAC Address.

DHCP ClientSelect a DHCP client from the pull-down list; click Clone to

copy that MAC Address.

Advanced > Filters > Domain Blocking



Domain Blocking is used to allow or deny LAN (Local Area Network) computers from accessing specific domains on the Internet. Domain blocking will deny all requests to a specific domain such as http and ftp. It can also allow computers to access specific sites and deny all other sites.

Filters- Select the filter you wish to use; in this case, **Domain Blocking** was chosen.

Domain Blocking-

Disabled Select Disabled to disable Domain Blocking

Allows users to access all domains except **Blocked Domains**

Denies users access to all domains except

Permitted Domains

Blocked Domains- Enter the **Blocked Domains** in this field

Permitted

Domains- Enter the **Permitted Domains** in this field

Advanced > Firewall



Firewall Rules is an advanced feature used to deny or allow traffic from passing through the DI-524. It works in the same way as IP Filters with additional settings. You can create more detailed access rules for the DI-524. When virtual services are created and enabled, it will also display in Firewall Rules. Firewall Rules contain all network firewall rules pertaining to IP (Internet Protocol).

In the Firewall Rules List at the bottom of the screen, the priorities of the rules are from top (highest priority) to bottom (lowest priority.)

Note:

The DI-524 MAC Address filtering rules have precedence over the Firewall Rules.

Firewall Rules- Enable or disable the Firewall

Name- Enter the name

Action- Allow or Deny

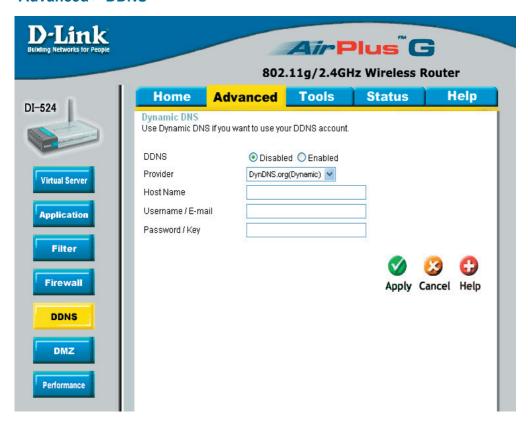
Source- Enter the IP Address range

Destination- Enter the **IP Address range**; the **Protocol**;

and the Port Range

Schedule- Select Always or enter the Time Range.

Advanced > DDNS



Users who have a Dynamic DDNS account may use this feature on the DI-524.

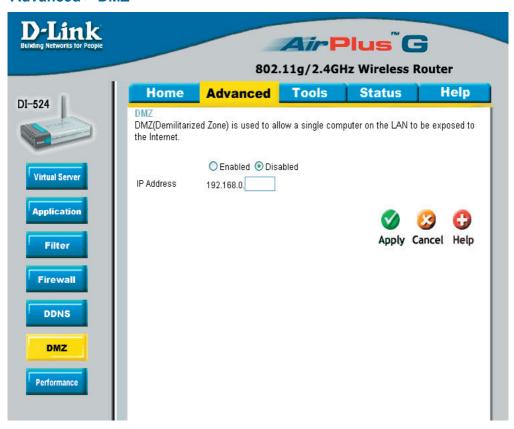
Provider- Select from the list of DDNS servers available.

Host Name- Enter your DDNS account host name.

Username/Email- Enter your DDNS account username.

Password/Key- Enter your DDNS account password.

Advanced > DMZ



If you have a client PC that cannot run Internet applications properly from behind the DI-524, then you can set the client up for unrestricted Internet access. It allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the internal computer that will be the DMZ host. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort.

DMZ-

Enable or **Disable** the DMZ. The DMZ (Demilitarized Zone) allows a single computer to be exposed to the internet. By **default** the DMZ is **disabled**.

IP Address-

Enter the IP Address of the computer to be in the DMZ

Advanced > Performance



Beacon Interval-

Beacons are packets sent by an Access Point to synchronize a wireless network. Specify a value. 100 is the default setting and is recommended.

RTS Threshold-

This value should remain at its default setting of 2432. If inconsistent data flow is a problem, only a minor modification should be made.

Fragmentation-

The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission.2346 is the default setting

DTIM Interval-

(Delivery Traffic Indication Message) **3** is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

Wireless Mode-

Select **Short** or **Long Preamble**. The Preamble defines the length of the CRC block (Cyclic Redundancy Check is a common technique for detecting data transmission errors) for communication between the wireless router and the roaming wireless network adapters. *Note: High network traffic areas should use the shorter preamble type*.

TX Rates-

Auto is the default selection. Selct from the drop down menu.

SSID Broadcast-

Choose **Enabled** to broadcast the SSID across the network. All devices on a network must share the same SSID (Service Set Identifier) to establish communication. Choose **Disabled** if you do not wish to broadcast the SSID over the network.