Advanced > Virtual Server continued

Virtual Servers List

Name		Private IP	Protocol	Schedule	
R	Virtual Server HTTP	192.168.0.25	TCP 80/80	always	



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

D-Link Building Networks for People			Air Plus [®] C	3
		802.	11g/2.4GHz Wireless	Router
1-624	Home	Advanced	Tools Status	Help
	Special Application	on s used to run applica	ations that require multiple connection	ns.
		🔿 Enabled 🔿 Dis	abled	
Virtual Server	Name			
	Trigger Port	-		
Application	Trigger Type	TCP 🔽		
	Public Ports			
Filter	Public Type	TCP 🔽		
			~	0 0
Firewall			Apply (Cancol Holp
			Арріу (cancel Help
DDNS	Special Application	on List		
	Name	Trigger	Public Port	E 1 C 2
DMZ	Battle.net	6112	6112	
	Dialpad	7175	51200-51201,51210	🕑 📶
Performance		2019	2000-2038,2050- 2051,2069,2085,3010-3030	🕑 îi
	MSN Gaming Zone	47624	2300-2400,28800-29000	📝 间
	PC-to-Phone	12053	12120,12122,24150-24220	📝 间
	Quick Time	554	6970-6999	📝 间

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

Č le			AirP	lus [®] C	3
		802	.11g/2.4GH	z Wireless F	Router
	Home	Advanced	Tools	Status	Help
	Filter	to allow or dopy LAN up	ore from according	the Internet	
	IP Filters	OURI Blocking	ers norn accessing	the internet.	
	MAC Filters	O Domain Blocking			
	IP Filter Use IP Filters to	deny LAN IP addresse	s access to the Inter	net.	
		OEnabled ODis	abled		
	IP Address				
	Port Range		-		
	Protocol	TCP 💌			
	Schedule	🔘 Always			
		O From Time	00 💙 : 00 💙 To 🖸	00 🔽 : 00 🔽	
l		day	Sun 🚩 to Sun 💌	-	_
				S	83 🔂
				Apply C	ancel Help
	IP Filter List				
	IP Ran	ge Protoc	ol Sch	nedule	
		TCP 2)-21 alw	ays	📝 🛄
	*	TCP 8) alw	ays	<u> </u>

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

D-Link Building Networks for People	Air Plus [™] G		
	802.11g/2.4GHz Wireless Router		
DI-524 Virtual Server Application Filter Firewall DDNS	Home Advanced Tools Status Help Filter Filters are used to allow or deny LAN users from accessing the Internet. IP Filters IP Filters<		
DMZ	🍼 🥺 🛟 Apply Cancel Help		

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

D-Link Building Networks for People	Air Plus [®] G
	802.11g/2.4GHz Wireless Router
DI-524	Home Advanced Tools Status Help
	Filter Filters are used to allow or deny LAN users from accessing the Internet. O IP Filters O URL Blocking
	MAC Filters ○ Domain Blocking
Virtual Server	MAC Filters Use MAC address to allow or deny computers access to the network.
Application	Oisabled MAC Filters
Filter	Only allow computers with MAC address listed below to access the network Only deny computers with MAC address listed below to access the network
Firewall	Name
DDNS	MAC Address
	DHCP Client select one
DMZ	S 😏 😏
Performance	Apply Cancel Help
	MAC Filter List
	Name MAC Address

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, $\ensuremath{\textbf{MAC}}$ 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 Client-	Select 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, $\ensuremath{\text{Domain Block-ing}}$ was chosen.		
Domain Blocking-			
Disabled-	Select Disabled to disable Domain Blocking		
Allow-	Allows users to access all domains except Blocked Domains		
Deny-	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

D-Link Building Networks for People		Air	Plus [®] C	3
	8	02.11g/2.4	GHz Wireless F	louter
DI-524	Home Advance Firewall Rules Firewall Rules can be used to allow	d Tools	Status	Help -524.
Virtual Server	C Enabled C Dis Name Action Allow C Deny	abled		
Application Filter	Interface IP Start Source	IP End	Protocol Po	rt Range
Firewall	Schedule OAlways OFrom T d	ime 00 💙 : 00 👻 ay Sun 💙 to Sur	To 00 💙 00 💙	
DDNS			🍼 Apply C	没 🛟 ancel Help
Performance	Firewall Rules List Action Name Allow Allow to Ping WAN port	Source WAN,*	Destination Protoco WAN,* ICMP,8	ol De îi
	Deny Default	*,* LAN,*	LAN,* *,* *,* *,*	

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.



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

D-Link Building Networks for People			Vir F	lus" C	3
		802.11	g/2.4Gł	lz Wireless I	Router
DI-524 Virtual Server Application Filter	Home Adv Wireless Performance These are the Wireless F Beacon Interval RTS Threshold Fragmentation DTIM Interval Wireless Mode TX Rates	ranced 1 erformance feature: 00 (msec, ran 432 (range: 256 3346 (range: 266 3 (range: 1- 3 mixed mode 0 3 auto (Mbps)	Fools s for the AP(A ge:1~1000, c 5~2432, defa 6~2346, defa 6~5535, defa G mode	Status ccess Point) portion lefault: 100) ult: 2432) ult: 2432) ult: 2346, even numb ult: 3)	Help
Firewall DDNS DMZ Performance	Authentication Type	⊃ Open System ⊂ ∋ Enable ⊂ Disab) Shared Key Jle	Both Apply	这 🛟 Cancel Help

- **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.

N-I isola				
uliding Networks for People		Air	Plus 🦉 🖸	3
		802.11g/2.4G	Hz Wireless I	Router
- E24	Home Advanc	ed Tools	Status	Help
-324	Administrator Settings Administrators can change their I	ogin password.		
	Administrator (The Login Name	s "admin")		
Admin	New Pass	word]	
	Reconfirm Pass	word]	
Time	User (The Login name is "user")			
Sustan	New Pass	word •••••]	
System	Reconfirm Pass	word]	
Firmware	Remote Management Let administrator perform admini	stration task from remote	e host.	
Misc	0	Enabled 💿 Disabled		
	IP Address 0.0	0.0		
	Port 808	0 💙		
			~	0 0
			V	

At this page, the DI-524 administrator can change the system password. There are two accounts that can access the Broadband Router's Web-Management interface. They are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes.

Administrator- admin is the Administrator login name

Password- Enter the password and enter again to confirm

User- user is the User login name

Password- Enter the password and enter again to confirm

Remote Management- Remote management allows the DI-524 to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform **Administrator** tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host.

IP Address- The Internet IP address of the computer that has access to the Broadband Router. If you input an asterisk (*) into this field, then any computer will be able to access the Router. Putting an asterisk (*) into this field would present a security risk and is not recommended.

Port- The port number used to access the Broadband Router.

Example- http://x.x.x.8080 where x.x.x.x is the WAN IP address of the Broadband Router and 8080 is the port used for the Web-Mangement interface.



Default NTP Server-	NTP is short for <i>Network Time Protocol.</i> NTP synchronizes computer clock times in a network of computers. This field is optional.
Time Zone-	Set Device Date and Time: To manually input the time. Enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second.
Set the Time-	To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second. Click Set Time .
Daylight Saving-	To select Daylight Saving time manually, select enabled or disabled , and enter a start date and an end date for daylight saving time.

Tools > System



The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file can be loaded back on the Broadband Router. To reload a system settings file, click on **Browse** to browse the local hard drive and locate the system file to be used. You may also reset the Broadband Router back to factory settings by clicking on **Restore.**

Save Settings to Local Hard Drive- Click Save to save the current settings to the local Hard Drive

Local Hard Drive- Click Browse to find the settings, then click Load

Restore to Factory

Default Settings- Click **Restore** to restore the factory default settings

Tools > Firmware



You can upgrade the firmware of the Router here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on **Browse** to browse the local hard drive and locate the firmware to be used for the update. Please check the D-Link support site for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware Upgrade-	Click	on t	the	link	in	this	screen	to	find	out	if	there	is	an	up-
	dated	firm	wa	re; if	so	, dov	wnload	the	new	firm	Wa	are to	yo	ur h	ard

Browse- After you have downloaded the new firmware, click Browse in this window to locate the firmware update on your hard drive. Click Apply to complete the firmware upgrade.