D-Link DVG-1402S

2Voice + 4SW VoIP Router

Manual



Building Networks for People

Version B.1

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Package Contents

- D-Link DVG-1402S Router
- Power Adapter AC 12V, 1.2A
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable (All the Ethernet ports on DVG-1402S are Auto-MDIX)

Note: Using a power supply with a different voltage rating than the one included with the DVG-1402S will cause damage and void the warranty for this product.

If any of the above items are missing, please contact your reseller.

- System Requirements for Configuration
- Ethernet-Based Cable or DSL Modem
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator Version 6.0 and Above

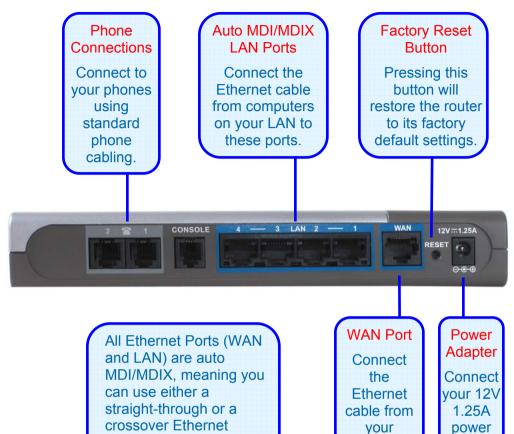
Introduction

The D-Link DVG-1402S High-Speed VoIP Router Links traditional telephony networks to IP networks with conventional telephony devices such as analog phones or fax machines. It can reduce long distance phone charges and deliver toll-quality voice communication over the IP network. This gateway provides two loop start Foreign Exchange Subscriber (FXS) ports and four LAN ports. One Ethernet port for a DSL/Cable Modem or other WAN devices, and the other for connection to create a home or small office LAN networks. The built-in DHCP server/client and Network Address Translation (NAT) function automatically assign IP address for LAN users, allowing multiple users to share a single Internet connection. It can be configured/monitored via the Console, Web browser, Telnet and HTTPS provisioning is also supported.



Rear Panel Connections

cable.



5

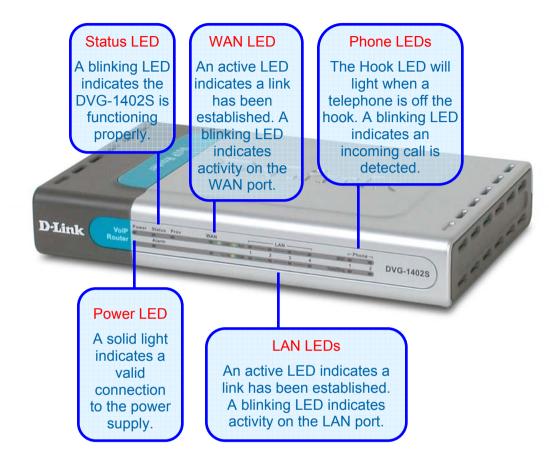
adapter

here.

ADSL modem to

this port.

Front Panel LEDs



Features

- 1 NWay 10/100BASE-TX Fast Ethernet port for WAN-connection
- 4 NWay 10/100BASE-TX Fast Ethernet port for LAN-connection
- 2 Foreign Exchange Subscriber (FXS) POTS ports (RJ-11 Jacks)
- Voice Activity Detection (VAD) /Comfort Noise Generation (CNG)
- Silence suppression to reduce bandwidth consumption.
- Adaptive jitter buffer for a smooth voice reception
- Lost packet recovery ability for improved voice quality
- Support QoS (Quality of Service) for voice quality guarantee.
- Build-in PPPoE function to support dial-up connection for broadband technology.
- IP address assignment using DHCP or static configuration
- RIP1/RIP2 and static routing support
- Support IP sharing to allow multiple users to access the Internet via a single IP address
- Support Caller ID function
- Configuration download using HTTPS and SSL/TLS client certificate encryption and authentication
- Support VPN Pass-Through
- MAC and Packet filter support
- Remote configuration and management over the Internet using web browsers
- Firmware backup support
- Support configuration backup and restore

Installation

For a typical setup at home, please do the following:

- 1. You will need broadband Internet access (a Cable or DSL-subscriber line into your home or office)
- Consult with your Cable or DSL provider for proper installation of the modem
- Connect the Cable or DSL modem to the DVG-1402S VoIP Router (see the printed Quick Installation Guide included with your router.)
- Install the D-Link DFE-530TX+ adapter into a desktop computer. The four Ethernet LAN ports of the DVG-1402S are Auto MDI/MDIX and will work with both Straight-Through and Cross-over cable.

(See the printed Quick Installation Guide included with the DFE-530TX+.)

Using the Configuration Wizard

Whenever you want to configure your network or the DVG-1402S, you can access the Configuration Menu by opening the web-browser and typing in the IP Address of the DVG-1402S. The DVG-1402S default IP Address is shown to the right:

- Open the web browser
- Type in the IP Address of the Router (http://192.168.15.1)
- Type admin in the User Name field
- Type admin in the Password field
- Click OK

The **Home > Wizard** screen will appear. Please refer to the Quick Installation Guide for more information regarding the Setup Wizard.



These buttons appear on most of the configuration screens in this section. Please click on the appropriate button at the bottom of each screen after you have made a configuration change.

Note: if you have changed the default IP Address assigned to the DVG-1402S, make sure to enter the correct IP Address. Clicking this button will save configured settings to the router.



Clicking Cancel will clear changes made to the current page.

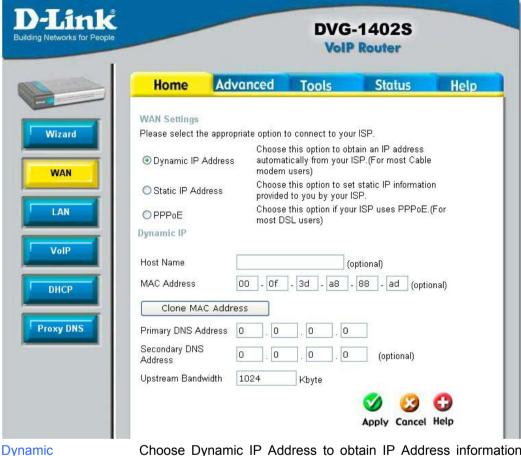


Clicking Help will provide the user with helpful information about the current window.



Click refresh will refresh the statistics of the current window.

Home > WAN



Choose Dynamic IP Address to obtain IP Address information automatically from your ISP. This option should be selected if your ISP has not supplied you with an IP address. This option is commonly used for Cable modem services.

- Host Name The Host Name is optional but may be required by some ISPs. The default host name is the device name of the Router and may be changed.
- MAC Address The default MAC Address is set to the WAN's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP.

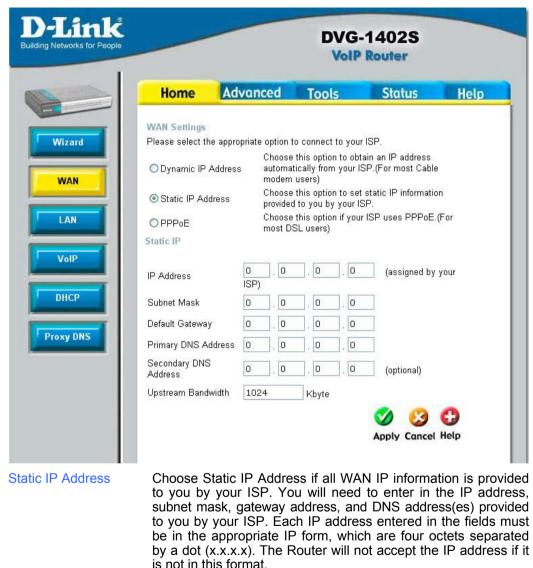
Clone MAC Address The default MAC address is set to the WAN's physical interface

MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Enter a DNS Address if you wish not to use the address provided by your ISP.

Upstream Bandwidth The upstream bandwidth can be set for the data traffic. The bandwidth can be maximized for voice packets and limited for data that requires less throughput.

Home > WAN > Static IP Address



Input the public IP Address provided by your ISP.

the same subnet mask.)

connecting.

Input your Subnet mask. (All devices in the network must have

Input the public IP address of the ISP to which you are

IP Address Subnet Mask

IP Gateway Address

Primary DNS Address

	Input the primary DNS (Domain Name Server) IP address provided by your ISP
Secondary DNS Address	This is an optional DNS Address entry to be used if the primary DNS Fails.
Upstream Bandwidth	The upstream bandwidth can be set for the type of packets that the will be sent. The bandwidth can be maximized for voice packets and limited for data that requires less throughput.



Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

Home > WAN > PPPoE

Home	Advanced	Tools	Status	Hel
WAN Settings				
	appropriate option	to connect to you	r ISP.	
O Dynamic IP A	ddress autor		obtain an IP address r ISP. (For most Cab	
OStatic IP Addr		ise this option to s ded to you by you	set static IP informat r ISP.	tion
PPPoE	Choc		our ISP uses PPPot	E.(For
PPPoE	most	DOL USEIS)		
User Name				
Password				
Retype Password			1	
IP Address	5.52.42.	100	-	
Primary DNS Add	Iress 0	0,0,	0	
Secondary DNS A	Address 0	0 0	0 (optional)	
Upstream Bandwi			(optional)	
opstream Danuw	1024	Kbyte		
Auto-reconnect	Disconne	ect		
PPPoE Status	Disconne	ect		
			1011 NO	
		Connec	ot Disconn	iect

PPPoE	Choose this option if your ISP uses PPPoE. (Most DSL users will select this option.)
Password Retype Password Service Name IP Address	Enter The PPPoE user name provided to you by your ISP. Retype the password entered in the previous field. Enter the Service Name provided by your ISP (optional). This option is only available for Static PPPoE. Enter the static IP Address for the PPPoE connection.
MAC Address	The default MAC Address is set to the WAN's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP.
Primary DNS Address	Input the primary DNS (Domain Name Server) IP address

provided by your ISP

Secondary DNS Address	This is an optional DNS Address entry to be used if the primary DNS fails.
Upstream Bandwidth	The upstream bandwidth can be set to suit the type of packets that the connection will be sending. The bandwidth can be maximized for voice packets and limited for data that requires less throughput.

Home > LAN

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DVG-1402S and may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

Link etworks for People		DVG-1402S VolP Router		
Home	Advanced	Tools	Status	Help
LAN Setting The IP addres	s ss of the DVG-1402S.			
IP Adresss	192 . 168	1 . 15		
Subnet Masl	k 255 . 255	. 255 . 0		
			Ø 😡 Apply Cancel	C) Help
T 10	address of the L		-	

Subnet Mask

The IP address of the LAN interface. The default IP address is 192.168.15.1.

The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0.

Home > VolP

All of the screens necessary to setup and configure the router to handle VoIP traffic are accessed from the screen shown below.

To access any of the individual configuration screens, click on the corresponding radio-button and that screen will appear.



Home > VoIP > Server Configuration

The Router can be configured to handle voice signals over the Internet Protocol (Voice over IP – VoIP). The screen shown to the right, along with those on the following pages are used to configure your router to communicate with the devices that will send and receive telephone calls over the Internet.

			1402S Router
Home	Advanced	Tools	Status
SIP Server Server FQDN IP Address Domain Name Port Secondary Server F Secondary IP Addre Secondary Domain Secondary Port	QDN Disab	led V , 0 , 0	, 0
Outbound Proxy St Outbound Proxy Se Outbound Proxy IP Outbound Proxy De Outbound Proxy Pe	ver FQDN Disab Address D main Name	led v led v . 0 . 0	. 0
Service Domain URL Format User Parameter Ph Caller ID Delivery Display CID Timer T2	one Disab YES Enabl	IRL V Ied V ed V sec	
Initial Unregister Register Expiration Session Expires Min-SE Session Expires Re	Disab 3600 60 fresher uac	sec sec	
Codec Priority & P G.711a-law G.711u-law G.729a G.726	acket Interval 3rd 2nd 1st no-use	20 🛩	ms ms ms
Digit Map	Ē	🌀 🍼 Back Apply (😕 🛟 Cancel Help

Server FQDN	Use this drop-down menu to Enable or Disable the Server Fully Qualified Domain Name (FQDN) function. This is disabled when the SIP URL domain name is different from the SIP proxy server domain name. The phone will then use the domain name in Domain Name field as part of SIP URL but send and receive SIP messages through the SIP proxy server defined in the Service Domain field.
IP Address	Enter the IP address of the SIP Server in this field.
Domain Name	Enter the domain name corresponding to the IP address entered above in this field.
Port	Enter the SIP server's listening port for the SIP in this field. Leave this field set to the default if your VoIP service provider did not give you a server port number for SIP.
Secondary SIP Server	The Secondary Features (FQDN, IP address, domain name and port), act as a backup for the initial connections' settings. In the event that the connection with the SIP server is lost, the backup settings will be used.
Outbound Proxy	The Outbound Proxy is a normal SIP proxy. If instructed to do so by your ISP, enable the Outbound Proxy, and enter its IP address, Domain Name and Port Number in the appropriate fields.
Service Domain	Enter the SIP service domain name in this field.
URL Format	Select SIP-URL to have the router include the domain name with the SIP number in the SIP messages that it sends. Select TEL-URL to have the router use the SIP number without a domain name in the SIP messages that it sends.
User Parameter	You can set this to phone or none . This determines whether or not the phone number is appended to the information forwarded to your SIP server. Your VoIP service provider will instruct you which setting to use.
Caller ID Delivery	Use this pull-down menu to initiate the delivery of the inbound caller ID.
Display CID	Use this pull-down menu to enable or disable the display of the Caller ID.
Timer T2	Set the timer to 4, 8, 16 or 32.
Initial Unregister	Enable or disable the initial unregister.
Register Expiration	Use this field to set how long the router will wait before sending a repeat registration request if a registration attempt fails or there is no response from the registration server.

Home > VoIP > Provisioning

Provisioning is a function that automatically updates your DVG-1402S's VoIP configuration by using a TFTP server located on the Internet. If you have accesses to such a service, you will need to know the URL and Proxy Address of the Provisioning Server.

)-Link	DVG-1402S VolP Router				
	Home	Advanced	Tools	Status	Help
Wizard WAN LAN VoiP	XML Provision Provisioning Fu Server URL Proxy Address Proxy Port Nur	nction Disabled	Apply Cancel	•	
DHCP Proxy DNS		buk		neφ	

Provisioning Function	Use this drop-down menu to Enable or Disable the Provisioning Function on the router.
Server URL	Enter the URL of the Provisioning Server in this field.
Proxy Address	Enter the IP address of the Proxy Server in this field.
Proxy Port Number	Enter the port number the Proxy Server will use to make the connection in this field.

Home > VoIP > STUN Configuration

Simple Traversal of UDP over NAT (STUN) - is a protocol which enables a VoIP device, such as this router or an IP phone. to detect the presence and type of NAT behind which the phone is placed. This router supports STUN and can intelligently modify the private IP address and port in its SIP/SDP message by using the NAT mapped public IP address and port through a series of STUN queries against a STUN server located on the public Internet. This will allow SIP signaling and RTP media to successfully traverse a NAT without requiring any configuration changes on the NAT

Home Advanced Tools Status He STUN Configuration STUN State Disabled STUN Server Disabled FODN Disabled STUN Server IP 0 Address 0 Stun Server Name Stun Server Port STUN Server Port 3478 STUN Reginterval 60	nk or People			-1402S P Router	
STUN State Disabled ▼ STUN Server Disabled ▼ FQDN Disabled ▼ STUN Server IP 0 Address 0 Stun Server Name	Home	dvanced	Tools	Status	Help
STUN Server Disabled FQDN Disabled STUN Server IP 0 Address 0 Stun Server Name	STUN Configuration				
STUN Reginterval 60	STUN Server FODN STUN Server IP Address Stun Server Nam	Disabled V 0 . 0 0].[0].		
STUN NAT Type UnKnown]		

STUN is useful if you need to use the DVG-1402S behind a modem or router that provides the connection to your ISP and then to the Internet and does not support symetric NAT. You will need access to a STUN server on the Internet and its IP address to use STUN on the DVG-1402S.

STUN State	Use this drop-down menu to Enable or Disable STUN on the router.
STUN Server IP Address	Enter the IP address of a STUN server in this field.
STUN Server Port	Enter the port number the STUN server will use in this field. If you do not have any information as to the proper port number, leave the default setting here.
STUN ReqInterval	This determines the amount of time, in seconds, between STUN requests. If you do not have any information as to the proper interval, leave the default setting here.
STUN NAT Type	Displays the result of the STUN NAT examination.

Home > VoIP > User Agent

The Router can be configured to handle voice signals over the Internet Protocol (Voice Over IP – VOIP).

		G-1402S IP Router	
Home Advance	ed Tools	Status	Help
User Agent			
Same Phone Number	Disabled 💌		
Index	1 🕶		
Phone Number			
Display Name User Agent Port	5060		
Authentication Usemame	5000		
Password			
Retype Password			

Same Phone Number Use this field to **Enable** or **Disable** the use of the same telephone number for the User Agent as for the Server Agent.

Index Use this field to assign line 1 or line 2 telephone sockets (on the back of the router) to the information entered in the User Agent.

Phone Number The telephone number assigned to the User Agent.

Domain Name The name that will be displayed when the User Agent is in use.

User Agent Port This selects the port number the router will listen to when determining when calls are being made.

Authentication Name The Username used to access your SIP server and your VoIP service provider.

Password The Password used to access your SIP server and your VoIP service provider.

Retype Password Retype your password to confirm.

To query the registration state of click Query. When the server responds you have the option to register or unregister.

Home > VoIP > Peer to Peer

The Router can be configured to handle voice signals over the Internet Protocol (Voice Over IP – VOIP).

D-Link Building Networks for People				1402S Router	
	Home	Advanced	Tools	Status	Help
Wizard WAN LAN VolP DHCP	Peer to Peer Index Phone Number User IP Address Port	5060	. 0 . 0 G 父 (Back Apply Co	. 0 S C Incel Help	
Proxy DNS	Index Phon	e Number User IP	Address Port I		
	1	@ 0.0.0.0 @ 0.0.0.0			
	3	@ 0.0.0.0			

Phone Number User IP Address Port The telephone number assigned to this entry.

Enter the IP address of the remote peer in this field.

Enter the UDP port number the remote peer will use to make the connection in this field. If you do not have any information as to the proper port number, leave the default setting here.

Home > VoIP > Telephony

The Router can be configured to handle voice signals over the Internet Protocol (Voice Over IP – VoIP).

D-Link Building Networks for People			DVG-1 VolP F		
	Home	Advanced	Tools	Status	Help
Wizard	Telephony				
WAN	Index DTMF Metho	ıd	1 💌 RFC2833 💌		
LAN	Payload Typ VAD	e	97 Enabled 💙		
VolP	VAD		G	Mapply Cancel	C) Help
DHCP					
Proxy DNS					

Index

Use this field to assign **line 1** or **line 2** telephone sockets (on the back of the router) to the information entered in the User Agent.

- DTMF Method Out-of band Dual Tone Multi-frequency -The Dual Tone Multi-frequency (DTMF) mode sets how the router will handle the tones that your telephone makes when you push its buttons. It is recommended that you use the same mode that your VoIP service provider uses. Select **RFC 2833** to send the DTMF tones in RTP packets. Select **Inband** to include the DTMF tones in the voice data stream. This method works best when you are using a codec that does not use compression (like G.711). Select **INFO** to transmit DTMF tones out-of-band.
- Payload Type A payload type is a number from 96 through 127 that identifies the type of payload carried in the packet. For example, a payload type of 122 denotes a fax payload. This field is only active when the DTMF method is set to **RFC 2833**.
- VAD Voice Activity Detection (VAD) -detects whether or not speech is present. This reduces the bandwidth that a call uses by not transmitting "silent Packets" when you are not speaking.

Home > VoIP > Speed Dial

The Router can be configured to dial a specified telephone number when you enter a numerical dial code. For example, you could assign 22 to the telephone number 555-1234. Then you can dial that telephone number by entering 22.

k				-1402 P Route		
Ho	me	Advanced	Tools	Sta	tus	Help
Speed	Dial					
Index		1				
Dial Co	de					
100 0		-		_		
Phone	Number					
Speed	Dial List				3 🔂 Incel Help	
Speed Index		Phone N		Edit	Delete	
Speed Index 1	Dial List	Phone N		Edit	Delete	
Speed Index 1 2	Dial List	Phone N		Edit	Delete	
Speed Index 1	Dial List	Phone N		Edit 2 2 2	Delete	
Speed Index 1 2 3	Dial List	Phone N		Edit	Delete	

IndexA number used to identify the current speed dial table entry.Dial CodeA numerical code that will correspond to the phone number
entered in the field below. You will dial this number, and the
router will dial the corresponding telephone number.Phone NumberEnter the telephone number you want the router to dial when
you dial the Dial Code entered in the field above.

Home > VoIP > Misc.

	Home	Advo	inced		ools		Stat	us	Hel
MI	SC.								
	⊙ Ring Cande	ence 🔿 I	Ring Det	fault Rul	e 🔿 R	ing Rule			
	D Duration	On1	Off1	On2	Off2	On3	Off3	On4	Off4
1	1800000	40	40	0	0	0	0	0	0
2	180000	40	80	0	0	0	0	0	0
3	180000	16	8	16	80	0	0	0	0
4	180000	8	4	8	4	16	80	0	0
5	180000	8	4	16	4	8	80	0	0
6	180000	12	12	8	4	10	50	0	0
7	180000	20	60	0	0	0	0	0	0
8	180000	20	20	8	8	0	0	0	0

Instead of adding additional lines to handle different telephone numbers, distinctive rings can be set to allow more than one telephone number to reach the same line. Calls coming in on different numbers on the same line can be identified by their distinctive ring pattern. For example, you could set a "short-short" ring for the sales department number, and a regular ring for the technical support number. Use the radio button to select *Ring Cadence*, *Ring Default Rule*, or *Ring Rule*. These three features allow the user to set distinctive rings. To configure distinctive rings, see the descriptions of the three features below.

Home > VoIP > Misc. > Ring Cadence

By using the Ring Cadence window, you can set up to 8 distinct ring patterns. The ring pattern of each distinct ring can be configured by setting the *On* and *Off* time. The amount of times that the ring pattern will repeat itself can also be set.

	Home	Advo	anced		l ools		Stat	tus	Help
	MISC.								
	Ring Cand	ence 🔿	Ring Def	ault Ru	le 🔘 R	ing Rule			
	ID Duration	On1	Off1	On2	Off2	On3	Off3	On4	Off4
	1 1800000	40	40	0	0	0	0	0	0
	2 180000	40	80	0	0	0	0	0	0
l	3 180000	16	8	16	80	0	0	0	0
l	4 180000	8	4	8	4	16	80	0	0
	5 180000	8	4	16	4	8	80	0	0
	6 180000	12	12	8	4	10	50	0	0
	7 180000	20	60	0	0	0	0	0	0
	8 180000	20	20	8	8	0	0	0	0

Duration

This field is used to limit the amount of times that the ring pattern will repeat itself. For example, if a ring pattern is set for 16 seconds and the duration is set for 60000 ms, then the ring pattern will repeat itself 3 times; then, 3 quarters of the way through the fourth repetition, the ringing will stop. The default value is 180000 ms.

Ring on Ring off One ring pattern is comprised of four rings and four periods of silence. The *On* field refers to the time of 1 ring. The *Off* time refers to the period of silence between rings. One unit of time in the *On* and *Off* fields is equal to 50 ms; so a value of 40 in the *On* field sets a 2000 ms ring (2 seconds). The sum of all the fields must be less than or equal to 320 ms and must be a multiple of 8. However, individual *On* and *Off* times don't necessarily have to be multiples of 8. A ring pattern could be set at 12, 12, 8, 4, 10, 50, 0, 0. While some of the *On* and *Off* times are not multiples of 8, their sum of 96 meets the requirement so this would be a valid ring pattern.

Home > VoIP > Misc. > Ring Default Rule

The Ring Default Rule is set for inbound callers that are not defined by the Ring Rule. One Ring Default Rule can be set for each VoIP port.



Ring Cadence Profile ID Use this pull-down menu to select a Ring Cadence for the Ring Default Rule. The 8 different Ring Cadences can be configured on the Ring Cadence window.

Home > VoIP > Misc. > Ring Rule

You can use the Ring Rule window to assign Caller IDs to frequently received inbound calls. Any call that has been assigned a caller ID will have its ID number displayed on the receiver's caller display. This way, the receiver knows which department the inbound call is attempting to reach by the ring cadence, and who the caller is by the caller ID

_		
	ro	\mathbf{n}
	10	

Port

Ring Cadence Profile ID

Caller ID

Link Works for People		-			G-1402 IP Router	
	Home	A	dvance	d Tools	State	us Hel
VAN F AN C	IISC.) Ring Cand rom Port Cadence Prof Caller ID		VoIP P1	fault Rule () Ring F	0:0:0 💌	Sancel Help
	Index	From	Port	Cadence Profile	Caller ID	Edit Delete
ky DNS	1	VoIP	P1	1800000-40:40:0:0:0:0:0	:0	🕑 👔
	2	VolP	P1	1800000-40:40:0:0:0:0:0	:0	📝 🔟
	3	VolP	P1	1800000-40:40:0:0:0:0:0	10	🕑 👔

Use the From field to select either VoIP or PSTN.

Use the *Port* field to select either Port 1 or Port 2. You can also choose both ports 1 and 2.

Use this pull-down menu to select a Ring Cadence for the Ring Rule. The 8 different Ring Cadences can be configured on the Ring Cadence window.

Set a numerical *Caller ID* of up 32 digits. 32 caller IDs can be created and will be listed below the Ring Rule Configuration area. To edit or delete an entry that has already been created, find the entry in the list and click on the appropriate icon.

Home > VolP > Manage Features > Reject Incoming Call

You can configure the router to reject incoming calls from particular telephone numbers by entering the telephone number in the screen shown below.

vorks for People				5-1402S P Router	
	Home	Advanced	Tools	Status	Help
	Manage Featu	ming Call 🔘 Block C	utgoing Call		
	Name PhoneNum Status			3 3	3 0
CP / DNS	Status Inde	× Name	PhoneNum	Back Apply Co	ancel Help

Name PhoneNum

Enter a name to identify the current entry.

Enter the telephone number you want to block incoming calls from.

Home > VoIP > Manage Features > Block Outgoing Call

You can configure the router to reject outgoing calls from particular telephone numbers by entering the telephone number in the screen shown below.

ink orks for People				3-14 P Rou	02S Iter	
	Home	Advanced	Tools		Status	Help
	Manage Fe	atures				
	O Reject Ir	ncoming Call 💿 Block	Outgoing Call			
	Call Block	Configuration 1				
	Name					
	PhoneNu	m				
	Status					
				0		0 0
				Bac	k Apply Co	
-				Dut	A Apply C	
	Status	Index Name	PhoneNum	Edit	Delete	
		index indine	, noncirgin		Û	
	2				1	
	3				1	
	4				1	
	5				1	

Name PhoneNum Enter a name to identify the current entry.

Enter the telephone number you want to block outgoing calls to.

Home > DHCP

Dynamic Host Configuration Protocol (DHCP) allows the gateway to automatically obtain the IP address from a DHCP server on the service provider's network. The service provider assigns a global IP address from a pool of addresses available to the service provider. Typically the IP address assigned has a long lease time, so it will likely be the same address each time the Router requests an IP address. If DHCP is not enabled on the Router, it is necessary for the user to assign a static IP address to each computer on your LAN. To setup DHCP for your LAN, first enable the Router as a DHCP server by clicking the corresponding Enabled radio button in the window above.

			-1402 Route	
Home	Advanced	Tools	Sta	tus Hel
DHCP Server The DVG-1402S of network.	can be setup as a l	DHCP Server to dis	stribute IP :	addresses to the L
Name				
State	Enable	led ODisabled		
Start IP Address	192	168 . 15 .	2	
IP Range	250			
Leased Time	0	hours		
Name P MAC Address	© Enab		0 .	00
DHCP Client	00:0c:	5e:aa:b9:c0 💌	Clone	
			0	Cancel Help
Static DHCP Cor	figuration List		мррту	culter help
	-	AC Address	Edit [Delete
19 19 19	92.168.15.0 00 92.168.15.0 00 92.168.15.0 00	:00:00:00:00:00 :00:00:00:00:00 :00:00:0		
Static DHCP Clie	ent Pool			
NO. State IP/	Address MAC	CAddress S	Status H	lostName
Dynamic DHCP	Client Pool			
NO. IP Address	MAC Address	Lease Time	Status	HostName

The next step is to set a range of IP addresses that you wish to allot to the devices on your LAN by entering a **Starting IP Address** and an **Ending IP Address**. This may be in a range from 2 to 254 (192.168.1.2 – 192.168.1.254). Computers on your LAN will have an IP address within this range then automatically assigned to them. Finally, enter the **Lease Time**, which is the time the Server will set for devices using DHCP to re-request an IP Address. Clients authorized for DHCP will be listed in the table at the bottom of the page. Click **Apply** to implement information set in this table. The DHCP Server is enabled by default.

DHCP may also be statically configured as well. This method allows the router to assign the same IP address information to a specific computer on the network, defined by its MAC address. This computer will get the same DHCP implemented IP address information every time the computer is turned on and this IP address will be specific to that computer's IP address on the local network. No other computer can be assigned this address. This is useful for computers on the LAN that are hosting applications such as HTTP or FTP. First, the user must enable the Static DHCP function by clicking the corresponding Enabled radio button. Next the user must enter the host name and the IP address for that computer by entering the last numbers into the space provided in the **IP Address** field. Next, the user is to enter the MAC address of the computer into the space provided. Click **Apply** to implement these static settings. The **DHCP Client** field will allow users to Clone the settings from their computer that were learned from the DHCP server. Simply use the pull down menu to select the MAC address of the computer will be implemented in the Static DHCP configuration area. Click **Apply** to implement these static settings. The DHCP dimenent these static settings. The lower portion of the window contains the Static DHCP Configuration List. Click on the **IP** icon to edit an entry and on the **II** icon to delete an entry.

Home > Proxy DNS



Use this drop down menu to enable or disable the Proxy DNS. Proxy DNS IP Address Enter the IP Address of the Proxy DNS.

Advanced > Virtual Server

•	DVG-1402S VolP Router							
	Home	Advanced	Tools	Statu	15	Help		
	tual Server ual Server is	used to allow Intern	et users acces	ss to LAN service	S.			
	O Enabled	💿 Disabled						
Na	me	Serv	er FTP	Clear				
Pri	vate IP	O	. 0 . 0	. 0				
Pr	otocol Type	TCP	¥					
Pu	blic Port	21						
	blic Port vate Port	21		Ø	<u>8</u>			
Pri	vate Port tual Server	21 List	ate IP		Cancel Ha	Delete		
Pri	vate Port tual Server ate	21 List Name Priv		Apply Protocol Type 21/21	Edit	Delete		
Pri Vin	vate Port tual Server ate Server F	List Name Priv TP 0.0	0.0	Protocol Type		•		
Pri Vir	vate Port tual Server ate Server F Server H	List Name Prive TP 0.0 TTP 0.0	0.0 0.0	Protocol Type 21/21	Edit	Delete		
Pri Vin Sta	vate Port tual Server ate Server F Server H Server H	21 List Name Priv. TP 0.0 TTP 0.0 TTP 0.0 TTPS 0.0	0.0 0.0 0.0	Protocol Type 21/21 80/80	Edit	Delete		
Pri Vin Sta	vate Port tual Server date Server F Server H Server D Server D	List Name Priv: TP 0.0 TTP 0.0 TTP 0.0 NS 0.0	0.0 0.0 0.0 0.0	Protocol Type 21/21 80/80 443/443	Edit	Delete		
Pri Vir Sta	vate Port tual Server Server F Server H Server H Server D Server S	21 List TP 0.0 TTP 0.0 TTP 0.0 TTPS 0.0 NS 0.0 MTP 0.0	0.0 0.0 0.0 0.0 0.0	Protocol Type 21/21 80/80 443/443 53/53	Edit	Delete		
Pri Vin Sta C	vate Port tual Server Server F Server H Server H Server Di Server Si Server Si	List Name Prive TP 0.0 TTP 0.0 TTP 0.0 NS 0.0 MTP 0.0 OP3 0.0	0.0 0.0 0.0 0.0 0.0 0.0	Protocol Type 21/21 80/80 443/443 53/53 25/25	Edit	Delete		
Pri	vate Port tual Server Server F Server H Server H Server D Server S Server P Server T Server T Server T	List Name Priv. TP 0.0 TTP 0.0 TTPS 0.0 NS 0.0 OP3 0.0 elnet 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Protocol Type 21/21 80/80 443/443 53/53 25/25 110/110 23/23 0/0	Edit	Delete		
Pri	vate Port tual Server Server F Server H Server H Server D Server D Server S Server S Server S Server To Server To	List Name Priv. TP 0.0 TTP 0.0 TTP 0.0 MTP 0.0 MTP 0.0 OP3 0.0 elnet 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Protocol Type 21/21 80/80 443/443 53/53 25/25 110/110 23/23	Edit	Delete		

To view the following window, click on the **Advanced** tab at the top of the window and then click the **Virtual Server** button to the left. The **Virtual Server** will allow remote users access to various services outside of their LAN through a public IP address, such as FTP (File Transfer Protocol) or HTTPS (Secure Web). After configuring the Router for these features, the Router will redirect these external services to an appropriate server on the user's LAN.

These external services may be modified by clicking its corresponding edit icon, or they may be deleted by clicking the corresponding delete icon. Though there are seven fields available to configure the Virtual Server, in most cases, only the IP address of the Virtual Server will be needed for implementation. To enable an already existing Virtual Server, click its corresponding edit button, configure the appropriate fields listed below and set the **Status** fields to **Enabled** by clicking the radio button. To configure other virtual servers for the Router, configure the following fields and click **Apply**.

Index	This is an index number used to identify the Virtual Server entry.
Private IP	Enter the IP address of the Virtual Server.
Protocol Type	The protocol type used for the Virtual Server. The user may select TCP , UDP or Both , depending on the type of Virtual Server implemented.
Start/End Global Port	Enter a range of ports on the device on the WAN side of the network that will be accessing the Virtual Server currently being configured. Commonly, this range of ports is identical to the local range of ports. Existing Virtual Servers may already have their well-known port ranges listed but this may need to be changed in certain circumstances.
Start/End Local Port	Enter the range of ports of the Virtual Server's computer. Existing Virtual Servers may already have their well-known port ranges listed but this may need to be changed in certain

circumstances.

Advanced > Filters

	DVG-1402S VolP Router						
	Home	Advance	d Tools	Status	Help		
	Filter			5. A. F.			
	IP Filter		LAN users from ac	cessing the Internet			
		MAC FIITER					
	IP Filters Use IP Filters	to deny LAN IP ad	dresses access to	the Internet.			
	Rule 1						
	State	O Enabled 💿 D	isabled				
l	Protocol	UDP 💌					
	IP Range	0.0.	0.0.	. 0 . 0 .	00		
L	Port Range	0.0)				
	Schedule		1.1				
L	Days	🔲 every day	Sun 🗌] Mon 🔲 Tue 🔲	Wed		
				🛛 Fri 🔲 Sat			
	Times		O From 0	0 🗸 00 🗸 AM	~		
l			To O	0 🔽 00 🔽 AM	~		
				and the second			
					C3 C3		
				Apply	Cancel Help		
	IP Filter List						
	State S	ource IP Range	Port Range	Protocol			
	-	0.0.0-0.0.0.0	0-0	UDP			
	O	0.0.0-0.0.0.0	0-0	UDP			
	O	0.0.0-0.0.0.0	0-0	UDP	📝		
		0.0.0-0.0.0.0	0-0	UDP			
	0 D	0.0.0-0.0.0.0	0-0	UDP	📝 📋		

Packet filtering is a basic security measure that should be used on any network that is exposed to a security risk. A packet filter system examines data packets and scrutinizes them in order to control network access. Filtering rules determine whether packets are

passed through the Router from either side of the gateway. The rules are created and controlled by the network administrator and can be precisely defined. These rules are used to block access to the LAN from outside the network and/or to deny access to the WAN from within the network. The Router uses filtering rules to examine data packet headers for specific information. Packets passing through the Router that do not meet the criteria specified by the rule set are dropped.

Effective implementation of packet filtering requires detailed knowledge of network services and communication protocols. An overly complicated filtering scheme can adversely affect the Router's performance, while an inadequate set of rules may needlessly compromise security.

This Router has two fields to configure for filtering which are IP Filters and MAC Filters.

This window will aid the use in configuring filters for IP addresses. This will deny specified LAN IP addresses or specific ports associated with these LAN IP address from accessing the Internet, Well known ports have already been previously set in the IP Filters List and can be modified by clicking their corresponding edit icon, and simple adding an IP address to the configuration.

1	DVG-1402S VolP Router						
	Home	Advance	d Tools	; Status	Hel		
	IP Filter IP Filters	MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC Filter A MAC	Idresses access Disabled 0 0	- 0 , 0 , Mon : Tue Fri : Sat 00 \vdot 00 \vdot AM 00 \vdot 00 \vdot AM	0 . 0] Wed		
	State	Source IP Range	Port Range	Protocol			
		0.0.0.0-0.0.0.0	0-0	UDP			
		0.0.0.0-0.0.0.0	0-0	UDP			
		0.0.0.0-0.0.0.0	0-0	UDP			
		0.0.0.0-0.0.0.0	0-0	UDP			
		0.0.0.0-0.0.0.0	0-0	UDP			

To access this screen, click the **Advanced** tab along the top of the configuration window and then the **Filters** tab to the left hand side.

Advanced > Filters > IP Filters

Protocol

The protocol associated with this IP filter. The user may choose between **TCP**, **UDP** or **Both**.

IP Address An IP address or range of IP addresses that will be denied access to the Internet.

Subnet Mask The subnet mask that corresponds to the IP address above.

Start Port/End Port

A port or range of ports that will be denied access to the Internet. If no port is entered, all ports in this IP range will be denied access to the Internet.

Advanced > Filters > MAC Filters

All computers are uniquely identified by their MAC (Media Access Control) address. The following window will allow users to deny computers access to the Internet or only allow certain computers access to the Internet, based on their MAC address. To access this screen, click the Advanced tab along the top of the configuration window, then the Filters tab to the left hand side and finally click the corresponding radio button for MAC Filters.

Index MAC Address State

		DVG-1402S VolP Router						
	Home		Advand	ed Tools	;	Statu	15	Help
	Filter Filters are use O IP Filter @			ny LAN users from	accessir	ig the Inte	rnet.	
Ī	MAC Filters Use MAC Filte	rs to c	ieny LAN	MAC addresses ac	ccess to	the Intern	et.	
	Index		1					
	MAC Add	ress		00 - 00 - 00		- 00		
	State		○Ena	abled 💿 Disabled				
					C	0	0	
					Ap	ply Can	cel Help	
	M	AC Fi	lter					
	S	tate	Index	MAC Address	Edit	Delete		
			1	00:00:00:00:00:00	2	1		
			2	00:00:00:00:00:00		11		
			3	00:00:00:00:00:00		1		
			4	00:00:00:00:00:00		1		
			5	00:00:00:00:00:00	2	1		
			6	00:00:00:00:00:00		1		

A number used to identify this MAC address filter setting. Enter the MAC address to be filtered.

This field allows you to enable or disable this MAC address filter setting.

Advanced > Firewall

This Router comes equipped with a firewall. The **Firewall** configuration screen allows the Router to enforce specific predefined policies intended to protect against certain common types of attacks. To configure the Router's firewall, click the **Advanced** tab at the top of the screen and then the **Firewall** tab to the left.

DVG-1402S VolP Router						
Home	Advanced	Tools	Status	Help		
Firewall Rules Firewall Rules 1402S. Rule 1	s can be used to allow o	r deny traffic from	WAN passing throu	ugh the DVG		
State	O Enabled 💿 D	isabled				
Action	Pass 💌					
Protocol	UDP 💌					
IP Range	0.0.	D . O	. 0 . 0	0.0		
Port Range	0-0					
Schedule						
Days	🔲 every day	Sun M		ed		
Times	 ● 24Hours 	O From 00 V				
Firewall Rule		() - 1 ¹ -	Apply Car	3 🛟 ncel Help		
and a second second	urce IP Range Port R	ange Action Pass	Come Description in the second	1		
	0.0-0.0.0.0 0-0	Pass		1		
-	0.0-0.0.0.0 0-0	Pass		1		

Pass or Block	Select the action you want the filter to take when it finds a packet that meets the criteria entered below.
Protocol	The protocol associated with this IP filter. The user may choose between $\ensuremath{\text{TCP}}, \ensuremath{\text{UDP}}$ or $\ensuremath{\textbf{Both}}.$
Source	Enter the IP address or range of IP addresses that you wish to block or allow to pass through the router. The Source may be identified on the LAN side, the WAN side or both by using the pull-down menu for the Interface heading.
Destination	Enter the IP address or range of IP addresses that you wish to deny or allow access to the Internet. The Destination may be identified on the LAN side, the WAN side or Both by using the pull-down menu for the Interface heading. The type of protocol may also be chosen by using the pull-down menu. The user may choose between TCP , UDP , ICMP or (*) Any . The user may also select a range of ports of the destination IP addresses by entering the range under the Port Range heading.
Subnet Mask	The subnet mask that corresponds to the IP address above.

Advanced > Routing > RIP Configuration

RIP – Routing Information Protocol – specifies how routers exchange information. With RIP, routers occasionally exchange entire routing tables.

You can select **RIPv1** or **RIPv2** by clicking the radio button under the **Version** heading, and then **select On** or **Off** by clicking the radio button under the **State** heading.

DVG-1402S VolP Router						
Home	Advo	anced	Тоо	ls	Status	Help
RIP Configurat	ion	Configuratio				
LAN		O RIPv2		⊙ Off		
WAN		O RIPv2	OOn	⊙ Off		
				8	0	
			Apply	Cance	Help	
	O Static Route RIP Configurat LAN	O Static Route ● RIP RIP Configuration Version LAN ● RIPv1	○ Static Route ③ RIP Configuratio RIP Configuration Version LAN ④ RIPv1 ○ RIPv2	O Static Route ⊙ RIP Configuration RIP Configuration Version State LAN ⊙ RIP∨1 ○ RIP∨2 ○ On WAN ⊙ RIP∨1 ○ RIP∨2 ○ On	Home Advαnced Tools O Static Route	Home Advanced Tools Status Static Route @ RIP Configuration RIP Configuration Version State LAN RIPV1 RIPv2 On Onf

LAN RIPv1	Select RIPv1 or RIPv2 for use by the router on your LAN.
LAN RIPv2	Select RIPv1 or RIPv2 for use by the router on your LAN.
WAN RIPv1	Select RIPv1 or RIPv2 for use by the router on the WAN.
WAN RIPv2	Select RIPv1 or RIPv2 for use by the router on the WAN.
State	Select On or Off to enable or disable RIP on either the LAN or the WAN $% \left({{\rm{AN}}} \right) = {\rm{AN}}$

Advanced > Routing > Static Route

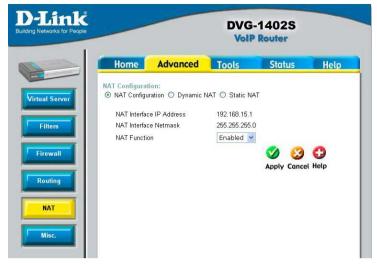
The Routing table, shown to the right, allows you to enter static routes between computers on both the WAN (Internet) and your LAN.

-		DVG-1402S VolP Router						
Hom	e	Advance	d	Tools		Statu	5	Hel
		O RIP Config	uration					
IP Addre	\$\$	0	. 0	. 0	. 0			
Subnet I	vlask	0	. 0	. 0	0			
Gateway	nine in	0	0	0	0			
Interface		WAN			-			
enable								
Matric		0		1				
Metric State		0 Disabl	led					
State		Disabl]				el Help
State	iđ	Disabl	Subnet	9 ateway	Interface	Metric	Edit	Delete
State State	ĩ	Disabl	Subnet Mate 0.0.0.0	0.0.0	WAN	Metric	Edit	Delete
State State	1 2	IP Address 0.0.0 0.0.0	Subnet Mass 0.0.0.0 0.0.0.0	0.0.0	VVAN VAN	Metric U O	Edit	Delete
State	1 2 3	Disabl Disabl 0.0.0 0.0.0 0.0.0	Subnet Mass 0.000 0.000 0.000	0000 0000 0000	NAW NAW	Metric 0 0	East	Delete
State	1 2 3 4	Disabl Disabl 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	Subnet Mass 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	0.0.00 0.0.00 0.0.00 0.0.00	VVAN VAN VVAN VVAN	Metric 0 0 0	Een	Delete
State	1 2 3 4 5	P Address 00.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	Subnet Mass 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	0000 0000 0000 0000 0000	VIAN VIAN VIAN VIAN VIAN	Metric 0 0 0 0 0		Delete Sil Sil Sil Sil Sil
State	1 2 3 4	Disabl Disabl 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	Subnet Mass 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0	0.0.00 0.0.00 0.0.00 0.0.00	VAAN VAAN VAAN VAAN	Metric 0 0 0	Een	Delete

IP Address	Enter the IP Address of the subnet or device where packets are to be routed.
Subnet Mask	Enter the subnet mask corresponding to the IP address entered above.
Gateway	Enter the IP address of the gateway used for packets that are to be routed to the IP address entered above.
Interface	Select the WAN (Internet) or LAN interface.
Metric	Enter the number of hops (the number of routers) that packets will be allowed to cross when being routed to the IP address entered above.
State	Use this drop-down menu to Enable or Disable this route.

Advanced > NAT > NAT Configuration

Network Address Translation (NAT) is a method by which the router translates between the IP address your ISP assigns to your account and the IP addresses assigned to the PCs on your LAN.



- NAT Interface IP Address This field displays the current IP address of the LAN side of the router. All IP address that are translated by the router will be in the same range as this IP address.
- NAT Interface Netmask This field displays the subnet mask corresponding to the IP address displayed above.
- NAT Function Use this pull-down menu to enable or disable NAT on the router.

Advanced > NAT > Dynamic NAT

Network Address Translation (NAT) is a method by which the router translates between the IP address your ISP assigns to your account and the IP addresses assigned to the PCs on your LAN. The Dynamic NAT entries are displayed below the Dynamic NAT configuration fields. To edit or delete an entry, find it on the list and click either the edit or delete icon.

-Link Ig Networks for People	_		DVG-1 VolP R		
	Ноте	Advanced	Tools	Status	Help
/irtual Server	NAT Configur O NAT Config	ation: guration ⓒ Dynamic N	IAT 🔘 Static NAT		
	Dynamic NAT				
Filters	Index	O Enable	d 💿 Disabled		
	Global IP	Start 0 0	0 0	7	
Firewall	Global IP				
	Local IP S				
Routing			. 0 . 0		
	Local IP E	ind O O	. 0 . 0		
NAT					
Misc.			40	ply Cancel He	
MISC.			Ар	pry cuncer ne	
	State	ndex Global IP Start G	lobal IP End Local IP S	tart Local IP End	Edit Delete
	1	0.0.0.0 0.	0.0.0 0.0.0	0.0.0.0	🕑 🗎
	2	0.0.0.0 0.	0.0.0 0.0.0	0.0.0	1
	3	0.0.0.0 0.	0.0.0 0.0.0	0.0.0.0	📝 🗊

Index

Global IP Start/End

This is an index number used to identify this NAT table entry.

Enter the range of IP addresses that will be assigned to your Internet account by your ISP.

Local IP Start/End

Enter the range of IP addresses that you will assign to PCs on your LAN.

Advanced > NAT > Static NAT

Network Address Translation (NAT) is a method by which the router translates between the IP address your ISP assigns to your account and the IP addresses assigned to the PCs on your LAN.

or People	DVG-1402S VolP Router								
Но	me	Advanced	Tools	Status	Help				
	nfigurati Configur	on: ation 🔿 Dynamic N.	AT 💿 Static NAT						
		OEnab	led 💿 Disabled						
Inde		1							
Loc	al IP Add	ress 0	0.0.)					
Glo	bal IP Ad	dress 0.	0.0.	D					
Glo	bal IP Ad		Ap	ply Cance	et Help Delete				
			Ap	Deply Cance					
	Inde	ex Local IP Address	Global IP Address	ply Cance	Delete				
	Inde 1	EX Local IP Address 0.0.0.0	Global IP Address 0.0.0	pply Cance Edit	Delete				
	Inde 1 2	ex Local IP Address 0.0.00 0.0.00	Global IP Address 0.0.0.0 0.0.0	ply Cance Edit	Delete				
	1 2 3	x Local IP Address 0.0.0.0 0.0	Global IP Address 0.0.0.0 0.0.0.0 0.0.0.0	ply Cance Edit	Delete				

IndexThis is an index number that will be used to identify this NAT
table entry.Local IP AddressEnter the IP address of the PC on your LAN.Global IP AddressEnter the IP address assigned to your Internet account by your
ISP.

Tools > Admin

At this page, the DVG-1402S 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.



Web Port Number The port number used to access the Broadband Router. The default port number for web management is 80.

WAN Access Control WAN access control allows remote management via the DI-624 to be configured from the Internet by a web browser. A username and password are 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. Click the radio button to *Enabled* to activate this feature.

Administrator Password Enter the password, admin, here and the same password in the Confirm Password field. This will be the password that the administrator will use to gain access to the configuration menu of the device. There is no default password for this device.

Tools > System

D-Link Building Networks for People	DVG-1402S VolP Router						
	Home	Advanced	Tools	Status	Help		
Admin	Backup and R	estore Configuration	i file				
System	Backup configu Backup	ration file					
Firmware	Restore Configu	ration File Browse					
Time		s lory Default Settings o Factory Default Set	tings				
					C) Help		

Backup Click Backup to backup the configuration file to your local hard drive.

Restore Configuration File To restore the configuration file click on *Browse* to search the local hard drive and locate the configuration file to be used for the configuration restoration. Once the file has been located, click **Open** in the browser window and then **Upload** on the System window.

Restore Factory Default Settings to restore the factory default settings.

Tools > Firmware

		DVG-1402S VolP Router		
Home	Advanced	Tools	Status	Hel
Firmware Confi	guration			
Software Update	Mode & TFTP Serv	er Address		
Software Update	Mode	TFTP		
TFTP Server Add	ress	0 0	0 0	
Last TFTP Serve	r Address	0.0.0.0		
Update Firmware				
Firmware Update		Disabled 🕑		
File Name				
Last Update Stat	us.			
			CA 63	0
			Apply Can	

You can update both the software and firmware of the Router. Please check the D-Link Support site for firmware updates at <u>http://support.dlink.com</u>. You can download firmware upgrades to your hard drive from the D-Link support site.

Software Update Enter the TFTP server address.

Firmware Update Click Enabled to begin the firmware update.

File Name Enter the firmware file name and DOS path in this field. For example, C:\firmware.had

Tools > SNMP

This menu can be accessed directly by clicking on the **SNMP** button or hyperlink in the **Tools** setup menu. Simple Network Management Protocol (SNMP) is an OSI Layer 7 Application designed specifically for managing and monitoring network devices. SNMP enables network management stations to read and modify the settings of gateways, routers, switches, and other network devices.



Use SNMP to configure system features for proper operation, performance monitoring, and detection of potential problems in the Router or network.

SNMP IP Management Address

The SNMP IP Management Address is the address of the PC running the SNMP software from the DVG-1402S device. A defined set of variables (managed objects) is maintained by the SNMP agent and used to manage the device. Enter the IP address of PC that you want to use to manage the network. You may also enter a backup address of another PC that can manage the network.

SNMP Trap Management Traps are messages that alert network personnel of events that occur on the Switch. The events can be as serious as a reboot (someone accidentally turned OFF the Switch), or less serious like a port status change. The Router generates traps and sends them to the trap management server. Typical traps include trap messages for Authentication Failure, Topology Change and Broadcast/Multicast Storms. Use the pull-down menu to enable or disable the SNMP on the device. Enter the **Trap Manager IP** and **Trap Community Name** of the trap management server.

Tools > Time

The system time is the time used by the DVG-1402S for scheduling services. You can manually set the time, connect to a NTP (network time protocol) server or synchronize the time on the router with your PC. If an NTP server is set, you will only need to set the time zone (in the set up wizard).



Status > Device Info

This page displays the current information for the DVG-1402S. It will display the LAN, WAN, Disk Information statistics.

This window will show the DVG-1402S's working status:

			DVG-1402S VolP Router		
Home Ac	lvanced	Tools	Status	Help	
Device Information					
Device Type		VolP Gate	way		
MAC Address		00.0f.3d.a	19:88.91		
Boot PROM Versie	on	1.00.001			
Firmware Version		1.00.0058	z		
DSP Version		0.11.8.0			
SIP Version		1.0.3			
Current Mode		Router			
WAN					
IP Address		0.0.00			
Subnet Mask		0.0.0.0			
Default Gateway		10.1.1.254			
LAN					
LAN MAC Address	5	00.01.3d.a	0:00:a0		
IP Adresss		192.168.1	51		
Subnet Mask		255 255 2	55.0		
				0	
				Help	

WAN IP Address: WAN/Public IP Address Subnet Mask: WAN/Public Subnet Mask Default Gateway: WAN/Public Gateway IP Address LAN LAN MAC Address: MAC address of the DVG-1402S IP Address: LAN/Private IP Address of the DVG-1402S Subnet Mask: LAN/Private Subnet Mask of the DVG-1402S

Status > Stats

-			DVG-1402S VolP Router				
Home	Ađ	vanced	Тоо	ls Status	Help		
Traffic Statis		210	-	packets passing through th	ie DVG-1403		
WAN			Reset				
AAVAAA	Receive packets		0	Transmit packets	17		
	bytes		Ü	bytes	1020		
	NonUcas		0	NonUcastPackets	17		
	DiscardP		0	DiscardPackets	0		
	FrameTon		0	HeartbeatErrors LateCollision	0		
	Collision		ő	RetransmissionLimit			
	ShortFran		ŭ	UnderrunPackets	ŏ		
	CRCError		0	CarrierSenseLost	0		
Phone Port S	OverrunF	ackets	0				
Phone Port		1		2	12		
Channel		1	3	2	4		
RxVoicePa		0	0	0	0		
RxMinJitte		0	0	0	0		
RxMaxJitte		0	0	0	0		
RxRTPAvg		0	0	0	0		
RxDTMFPa		0	0	0	0		
TxVoicePa		0	0	0	0		
TxGrantRe			0	0	8		
TxDTMFPa		0	0	0	0		
Micro0ver		0	0	0	0		
Pitcl octfly	Network	0	0	0	0		
				0	0		
TxHoldDro		0	0	0	0		

The Broadband Router keeps a running log of events and activities occurring on the Router. If the device is rebooted, the logs are automatically cleared. You may save the log files under Log Settings. The screen above displays the Traffic Statistics. Here you can view the amount of packets that pass through the DVG-1402S on both the WAN and the LAN ports. The traffic counter will reset if the device is rebooted or can be reset by clicking the **Reset** button. To refresh current statistics, click the **Refresh** button.

Status > Diagnostics

	DVG-1402S VolP Router					
Home	Advanced	Tools	Status	Help		
Diagnostics This page provid problems. Pring Target Pring Result	les for ping diagnosti 00	tes to the LAN to h	elp with IP connect	hety Holp		

The Diagnostics window allows users to test the functionality of the router by executing a ping test. Enter the IP address of the Ping Target and then click **Test**.

Help

		DVG VolF		
Home	Advanced	Tools	Status	Help
Home				
• Wizard				
 WAN 				
 LAN 				
DHCP				
Advanced				
● Virtual S	Server			
 Filters 				
Firewall				
• RIP				
Routing				
 VoIP NAT 				
 NAT Misc. 				
• WISC.				
Tools				
Admin				
 System 				
 Firmwar SNMP 	e			
 SINIMP Time 				
 Time Reboot 				
• Kenool				
Status				
 Device I 	nfo.			
 Stats 				
 Diagnos 	tics			

The **Help** tab will give basic information referring to various screens locted in the Router. To view a specific section, click on its hyperlinked name. A new window of information will appear.

Technical Specifications

Standards

- IEEE 802.3
- IEEE 802.3u

VPN Pass Through/ Multi-Sessions

- PPTP
- L2TP
- I PSec

Device Management

- Web-Based- Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers
- DHCP Server and Client

Advanced Firewall Features

- NAT with VPN Passthrough (Network Address Translation)
- MAC Filtering
- IP Filtering
- URL Filtering
- Domain Blocking
- Scheduling

Operating Temperature

32°F to 131 °F (0°C to 55°C)

Humidity:

95% maximum (non-condensing)

Safety and Emissions:

FCC

Technical Specifications

LEDs:

- Power
- WAN
- LAN (10/100)
- Phone
- Status
 Physical
 Dimensions:
- L = 7.56 inches (192mm)
- W = 4.65 inches (118mm)
- H = 1.22 inches (31 mm)

Power Input:

- Ext. Power Supply DC 12V, 1.5A
- Weight: 10.8 oz. (0.3kg)

Warranty:

3 year (depends on D-Link global warranty policy)

Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:

(877) 453-5465

24 hours a day, seven days a week

D-Link Technical Support over the Internet:

http://support.dlink.com email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone:

(800) 361-5265

Monday to Friday 7:30am to 12:00 am EST

D-Link Technical Support over the Internet:

http://support.dlink.ca email:support@dlink.ca

