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.

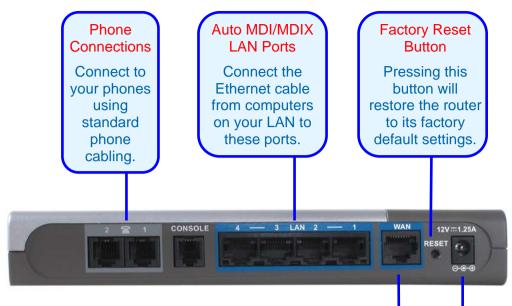
- System Requirements for Configuration
- Ethernet-Based Cable or DSL Modem
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer 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.

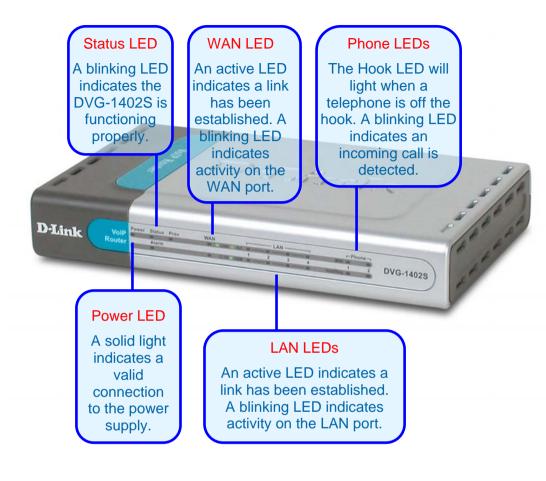


Rear Panel Connections



All Ethernet Ports (WAN and LAN) are auto MDI/MDIX, meaning you can use either a straight-through or a crossover Ethernet cable. WAN Port Connect the Ethernet cable from your ADSL modem to this port. Power Adapter Connect your 12V 1.25A power adapter here.

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. Apply

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



DVG-1402S

Home	Advanced	Tools	Status	Help
WAN Settings				
Oynamic IP	Address automa	e this option to obta atically from your IS 1 users)	in an IP address	
O Static IP Ad		e this option to set d to you by your IS		n
O PPP₀E		e this option if your ISL users)	ISP uses PPPoE.((For
Dynamic IP		02 00000)		
Host Name		(op	tional)	
MAC Address	00 - Of	. 3d . a8 .	88 - ad (optio	inal)
Clone MA	C Address			
Primary DNS A	ddress 0 . O	. 0 . 0		
Secondary DNS Address	0.0	. 0 . 0	(optional)	
	width 1024	Kbyte		

Dynamic 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.

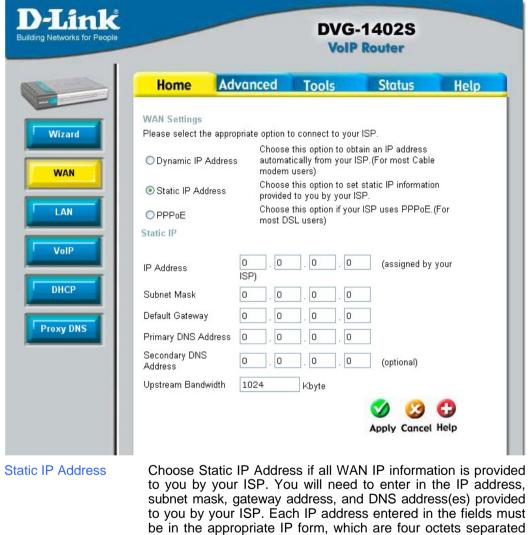
Clone MAC Address The default MAC address is set to the WAN's physical interface

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



by a dot (x.x.x.x). The Router will not accept the IP address if it
is not in this format.IP AddressInput the public IP Address provided by your ISP.Subnet MaskInput your Subnet mask. (All devices in the network must have
the same subnet mask.)IP Gateway
AddressInput the public IP address of the ISP to which you are
connecting.

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.

D-Link DVG-1402S VolP Router Home Advanced Tools Status Help WAN Settings Wizard Please select the appropriate option to connect to your ISP. Choose this option to obtain an IP address O Dynamic IP Address automatically from your ISP. (For most Cable WAN modem users) Choose this option to set static IP information O Static IP Address provided to you by your ISP. Choose this option if your ISP uses PPPoE. (For LAN PPPoE most DSL users) PPPoE VolP User Name Password DHCP Retype Password 5.52.42.100 IP Address Proxy DNS 0,0,0,0 Primary DNS Address Secondary DNS Address 0 . 0 . 0 . 0 (optional) Upstream Bandwidth 1024 Kbyte Auto-reconnect PPPoE Status Connect Disconnect 🍼 🙆 🗗 Apply Cancel Help

Home > WAN > PPPoE

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.

D-Link Building Networks for People			-1402S Router		
	Home	Advanced	Tools	Status	Help
Wizard	LAN Settings The IP address o	of the DVG-1402S.			
WAN	IP Adresss Subnet Mask	192 . 168 255 . 255			
				Mapply Cancel	C) Help
DHCP Proxy DNS					
Address	The IP ac	dress of the L	AN interfac	e The defau	ilt IP addre

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

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

Home > VoIP

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.

DVG-1402S VolP Router				
Home	Advance	d Tools	Status	
SIP Server Server FQDN IP Address Domain Name Port Secondary Serve Secondary IP A Secondary Dom Secondary Port Outbound Proxy Outbound Proxy	ddress ain Name State	Disabled v 0 , 0 , 0 , 0 5060 Disabled v 0 , 0 , 0 Disabled v Disabled v	0 . 0	
Outbound Proxy Outbound Proxy Outbound Proxy Outbound Proxy	IP Address Domain Name		0.0	
Service Domain URL Format User Parameter Caller ID Deliver Display CID Timer T2		SIP-URL V Disabled V YES V Enabled V 4 V sec		
Initial Unregister Register Expirat Session Expires Min-SE Session Expires	ion S	60 si	90 90 90	
Codec Priority & G.711a-law G.711u-law G.729a G.726	2nd	 20 20 20 20 	❤ ms ❤ ms	
Digit Map				

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.

D-Link Building Networks for People					
	Home	Advanced	Tools	Status	Help
Wizard WAN LAN VolP	XML Provision Provisioning Fu Server URL Proxy Address Proxy Port Nun	nction Disabled	Apply Cancel	C) Help	
DHCP Proxy DNS					

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

-Link Networks for People	DVG-1402S VolP Router				
	Home	Advanced	Tools	Status	Help
Wizard	STUN Configu	ration			
	STUN Sta	te Disabled	*		
WAN	STUN Sei FQDN	Disabled	~		
LAN	STUN Sei Address	ver IP 0 . 0	. 0 .		
VoIP	Stun Serv	er Name			
	STUN Ser	ver Port 3478			
DHCP	STUN Re	qinterval 60			
	STUN NA	T Type UnKnown			
roxy DNS					
	(NAT Type Dete		G 💙 🙆	0
				Back Apply Can	cel Help

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).

D-Link	DVG-1402S VolP Router						
	Home Advanced Tools Status Help						
Wizard	User Agent						
WAN	Same Phone Number Disabled 💌 Index 1 💌						
LAN	Phone Number						
VoIP	User Agent Port 5060 Authentication Username						
DHCP	Password						
Proxy DNS							
	Back Apply Cancel Help						

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	Peer to Peer Index Phone Number User IP Address Port	1 s @ 0 5060	. 0 . 0	. 0	
	SIP - Peer to Pe		🌏 🥑 🌜 Back Apply Ca	3 🔂 ncel Help	
Proxy DNS	Index Phor 1 2	e Number User IP. @0.0.0.0 @0.0.0.0	5060	dit Delete	
	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).

Home Advanced Tools Status Help Wizard Wizard WAN Index Index Index Image: Status Home Advanced Tolephony Index Image: Status Index Image: Status Index Image: Status Image: St	D-Link Building Networks for People			DVG-1 VolP R		
Index 1 WAN DTMF Method Payload Type 97 VAD Enabled Enabled Enabled DHCP Back Apply Cancel Help		Home	Advanced	Tools	Status	Help
WAN DTMF Method RFC2833 V Payload Type 97 VAD Enabled V Unip Go V V DHCP Help	Wizard	Telephony				
VAD Enabled V VolP DHCP	WAN		d			
Back Apply Cancel Help	LAN		e			
	VolP			3 Back	Mapply Cancel	-
Proxy DNS	DHCP					yganni - A
	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.

-Link g Networks for People	-	-			5-14029 P Router	6
	Hor	ne	Advanced	Tools	Statu	s Help
Wizard	Speed [Dial				
	Index		1			
WAN	Dial Cod	е				
	Phone N	lumber				
AN						
LAN				G	Ø	0
VoIP	Speed D	ial List		G Back	Mapply Canc	
VoIP	Speed D	Dial Con	de Phone	G Back	Edit	
	Index 1		de Phone		Edit	el Help Delete
VoIP	Index 1 2		de Phone		Edit 2	Delete
VoIP	Index 1 2 3		de Phone		Edit 2 2	vel Help Delete
VoIP	Index 1 2		de Phone		Edit 2 2 2 2	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

Phone Number Enter the telephone number you want the router to dial when you dial the Dial Code entered in the field above.

Home > VoIP > Misc.

D-Link Building Networks for People				G-1402		
	Home	Advanced	Tools	Stat	us í	Help
Wizard	MISC. Ring Cande 	nce 🔿 Ring Def	ault Rule 🔿 Ri	ing Rule		
WAN	ID Duration	On1 Off1	On2 Off2	On3 Off3	On4 C)ff4
	1 1800000	40 40	0 0	0 0	0 0	
LAN	2 180000	40 80	0 0	0 0	0 0	
VolP	3 180000	16 8	16 80	0 0	0 0	
DHCP	4 180000	8 4	8 4	16 80	0 0	
	5 180000	8 4	16 4	8 80	0 0	
Proxy DNS	6 180000	12 12	8 4	10 50	00	
	7 180000	20 60	0 0	0 0	00	
	8 180000	20 20	8 8	0 0	0 0	
				G Sack Ap) 没 ply Cance	C) I Help

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	Adv	anced		Fools		Stat	us	He
	SC.								
Ird	 Ring Cande 	ence 🔿	Ring Def	ault Rui	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
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

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

From

Port

Ring Cadence Profile ID

Caller ID

-Link ng Networks for People					-1402 Router	
	Home	A	dvanced	Tools	Statu	ıs Help
	MISC.					
Wizard	O Ring Can	dence (🔿 Ring Defa	ılt Rule 💿 Ring Ru	le	
WAN	From		VoIP	/		
	Port		P1	*		
LAN	Cadence Pro	file	180000	0-40:40:0:0:0:0:	0:0 💌	
	Caller ID					
VolP						
DHCP				G		🥝 🔂 Cancel Help
				Ба	ск арріу і	Cancel Help
Proxy DNS	Index	From	Port	Cadence Profile	Caller ID	Edit Delete
PTOXY DINS	1	VolP	P1 18	00000-40:40:0:0:0:0:0:0		🖻 前
and the owner water w						
	2	VolP	P1 18	00000-40:40:0:0:0:0:0:0		📝 🕺 🏢

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.

D-Link Building Networks for People				5-1402S P Router	
	Home	Advanced	Tools	Status	Help
Wizard	Manage Featu Reject Incol Call Reject Co	ming Call 🔘 Block C	utgoing Call		
LAN VoIP DHCP	Name PhoneNum Status			G V (Back Apply Co	S 🔂
Proxy DNS	Status Inde 1 2 3 4 5	× Name	PhoneNum	Edit Delete C 11 C 11	

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.

-Link ing Networks for People				5-14(P Rou		
	Home	Advanced	Tools	S	tatus	Help
	Manage Feat	ures				
Wizard	O Reject Inco	oming Call 💿 Block C	Outgoing Call			
WAN	Call Block Co	nfiguration 1				
LAN	Name					
	PhoneNum					
VoIP	Status					
рнср				G		3 🔂
Proxy DNS						
	Status Ind	ex Name	PhoneNum	Edit	Delete	
					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 dlobal 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

	DVG-1402S VolP Router						
Home	Advanced	Tools	Sta	tus H			
DHCP Server The DVG-1402S on network.	an be setup as a D	HCP Server to dist	ribute IP a	addresses to the			
Name							
State	Enable	ed ODisabled					
Start IP Address	192 .	168 15 2	2				
IP Range	250						
Leased Time	0	hours					
Static DHCP Static DHCP is us MAC address.	sed to allow DHCP :	server to assign sa	me IP add	fress to specific			
	OEnable	ed 💿 Disabled					
Name							
IP		15 . 0					
MAC Address	00 - 01	00.00	- 00 -	00			
DHCP Client	00:0c:6	e:aa:b9:c0 💌 🌘	Clone				
				00			
			Apply	Cancel Help			
Static DHCP Con	figuration List		App.,	euneer norp			
		C Address	Edit D)elete			
19	2.168.15.0 00:0	00:00:00:00:00	1	1			
		00:00:00:00:00		1			
		00:00:00:00:00 00:00:00:00:00					
Static DHCP Clie		5.55.00.00.00					
		Address St	latus H	lostName			
Dynamic DHCP (
-	MAC Address	Lease Time	Status	HostName			
NO. IP Address							

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 JDHCP configuration List. Click on the **IP** icon to edit an entry and on the **IP** 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



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

				G-1402S IP Router	
ſ	Home	Advanced	Tools	Status	Help
	 IP Filter C IP Filters 			cessing the Internet. the Internet.	
	Protocol IP Range Port Range Schedule	UDP	sabled		0.0
	Days Times	☐ every day ● 24Hours	C From	Mon Tue Fri Sat 0 00 AM 0 00 AM	
	IP Filter List			Mapply C	ο Cancel Help
	The second se	ource IP Range	Port Range	Protocol	James
		0.0.0-0.0.0.0	0-0	UDP	
		0.0.0-0.0.0.0	0-0	UDP	
	_	0.0.0-0.0.0.0	0-0	UDP	
	_	0.0.0-0.0.0.0	0-0	UDP	
	0.	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.

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

ink ks for People						402 touter	5
	Home	A	dvand	ed Tools	5	Statu	s Help
	Filter Filters are used O IP Filter 💿			y LAN users from	accessir	ig the Inter	net.
	MAC Filters Use MAC Filters	s to d	eny LAN	MAC addresses a	ccess to	the Interne	t.
wall	Index		1				
uting	MAC Addre State	SS	00 -	00 - 00 - 00		- 00	
NAT	ма	C Fil	ter		Ap) 🕴	et Help
	Sta	ate	Index	MAC Address	Edit	Delete	
] 1		00:00:00:00:00:00		Ũ	
				00:00:00:00:00:00		1	
				00:00:00:00:00:00	2	1	
						1	
				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 c: 1402S. Rule 1	an be used to allow c	r deny traffic fror	n WAN passing th	nrough the D∨G		
	State	◯ Enabled ⊙ [Disabled				
	Action	Pass 💙					
	Protocol	UDP 💌					
	IP Range	0.0.	0.0	-0,0	. 0 . 0		
	Port Range	0.0)				
	Schedule						
	Days	🔲 every day	Sun 🔲 I	Mon 🔲 Tue 🔲 Fri 🔲 Sat	Wed		
l	Times	⊙ 24Hours	 From 00 To 00 		*		
	and a second second	urce IP Range Port F	0	on Protocol	Cancel Help		
	-	0-0 0.0.0.0	Pass	_	10		
		0-0 0.0.0.0	Pass	_	1		
	1.0.0	0-0 0.0.0.0	Pass	UDP 📝	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.

D-Link Building Networks for People						
	Home	Advance	ed Too	ols	Status	Help
Virtual Server	O Static Rout RIP Configurat		juration State			
	LAN			⊙ Off		
Filters	WAN	⊙ RIPv1 OI	RIPv2 On	⊙ Off		
Firewall			0	8	0	
Routing			Арр	ly Cance	ł Help	
NAT						
Misc						

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 Configuration – 1	uration					
IP Addre	99	0	. 0	. 0	. 0			
Subnet M	vlask	0	0	0	0			
Gateway		0	0	0	0			
Interface		WAN	1.1.1					
		0		τ.				
Metric								
State		Disable	ed					
		Disable		2 dament				el Help
State	id	Disable IP Address	Subnet Mate	Gateway	interface	Metric	Edit	Delate
State	1	P Address 0.0.0	Subnet Mass 0.0.0.0	0.0.0	WAN	Metric	Eat	Delete
State	1 2	IP Address 0.0.0 0.0.0	Subnet Mate	0.0.0	VVAN VVAN	Metric U O	Edit	Pelete
State	1	Disable IP Address 0.0.0 0.0.0 0.0.0 0.0.0	Subnet Mass 0.0.00 0.0.00	0.0.0	WAN	Metric		Delete
State	1 2 3	P Address 00.00 00.00 00.00 00.00	Subnet Mais 0.000 0.0.0 0.0.0	0000 0000 0000	NAW NAW NAW	Metric 0 0	Edit	Delete
State	1 2 3 4	P Address 00.00 0.00 0.00 0.00 0.00 0.00 0.00	Subnet Mark 0.0.0.0 0.0.0 0.0.0 0.0.0	0000 0000 0000 0000	NAW NAW NAW NAW	Metric 0 0 0		Delete
State	1 2 3 4 5	P Address 00.00 00.00 00.00 00.00 00.00 00.00 00.00	Subnet Mais 0.0.00 0.0.0 0.0.0 0.0.0 0.0.0	0000 0000 0000 0000 0000	NAW NAW NAW NAW NAW	Metric 0 0 0 0		Delete Sil Sil Sil Sil Sil

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 vour 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.

D-Link Building Networks for People				1402S Router	
	Home	Advanced	Tools	Status	Help
Virtual Server	NAT Configura	ntion: uration ⊙ Dynamic №	IAT 🔿 Static NAT		
Filters	Dynamic NAT	○ Enabler	Disabled		
	Index	1	Disabled		
Firewall	Global IP S	Start 0 . 0	. 0 . 0		
	Global IP E	nd O . O	. 0 . 0		
Routing	Local IP St	art O O			
	Local IP Er	nd D D			
NAT					
			(2 🖸 🕻	>
Misc.			A	oply Cancel He	elp
	State In	dex Global IP Start G	lobal IP End Local IP	Start Local IP End	Edit Delete
	1	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	0.0.0.0	📝 🗎
	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.

9-Link Ig Networks for People	-			VG-1402S VolP Router		
	Home	Advanced	Tools	Status	Help	
	AT Configur	ation: guration 🔿 Dynamic I	NAT 💿 Static NAT			
		OEna	ibled 💿 Disabled			
Filters	Index	1				
	Local IP A	vddress 0		2		
Firewall	Global IP	Address 0	. 0 . 0 . 1	0		
A REAL PROPERTY AND ADDRESS OF TAXABLE PARTY.						
Routing				0 3	0	
Routing			Ap	ply Cance	C) I Help	
	otate	ndex Local IP Addre	ss Global IP Address	Edit	Delete	
NAT	1	0.0.0.0	SS Global IP Address	Edit	Delete	
	1 2	0.0.0.0	Global IP Address 0.0.0.0 0.0.0.0	Edit	Delete	
NAT	1 2 3	0.0.0.0	SS Global IP Address	Edit	Delete	
NAT	1 2	0.0.0.0	Global IP Address 0.0.0.0 0.0.0.0	Edit	Delete	
NAT	1 2 3	0.0.0.0 0.0.0.0 0.0.0.0	ss Global IP Address 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	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				-1402S P Router	
Admin System	Home Backup and Re Backup configur Backup Restore Configur		Tools ता _व	Status	Help
SHMP Time Reboot		Browse ory Default Settings a Factory Default Set			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 Conf	guration			
Software Update	Mode & TFTP Ser	er Address		
Software Update	Mode	TETP		
TFTP Server Add	ress	0 0	0.0	
Last TFTP Serve	r Address	0.0.0		
Update Firmware	с.			
Firmware Update	i.	Disabled 💌		
File Name				
Last Update Sta	us			
			V 😜	9 🖸

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.

Home Advan SMMP Configuration SMMP IP Management Add IP Address 1 IP Address 2 SNMP Authentication Trap Manager IP Trap Community Name	
SNMP IP Management Add IP Address 1 IP Address 2 SNMP Trap Management SNMP Authentication Trap Manager IP	0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .
IP Address 1 IP Address 2 SNMP Trap Management SNMP Authentication Trap Manager IP	0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .
IP Address 2 SNMP Trap Management SNMP Authentication Trap Manager IP	0 , 0 , 0 , 0
SNMP Trap Management SNMP Authentication Trap Manager IP	Disabled V
SNMP Authentication Trap Manager IP	
Trap Manager IP	
CONTRACTOR OF STREET	0,0,0,0
Trap Community Name	
i	🧭 🤔 🕃 Apply Cancel Hel

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:

		the second s	1402S Router	
Home	Advanced	Tools	Status	Help
Device Information	on			
Device Type		VolP Cate	way	
MAC Address	E.	00.01.3d.a	19.88.91	
Boot PROM V	/ersion	1.00.001		
Firmware Ven	sion	1.00.0058	z	
DSP Version		0.11.8.0		
SIP Version		1.0.3		
Current Mode		Router		
WAN				
IP Address		0000		
Subnet Mask		0.0.0.0		
Default Gatew	ray	10.1.1.254		
LAN				
LAN MAC Ad	dress	00.01:3d:a	06:00:60	
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	Advance	d Too	ls Status	Help	
-		_	packets passing throug	h the DVG-1403	
		Reset			
	erve kets	8	Transmit packets	17	
byt		Ū.	bytes	1020	
Nor	UcastPacket		NonUcastPackets	17	
	cardPackets	0	DiscardPackets	0	
	meTooLong AlignedError	0	HeartbeatErrors LateCollision	0	
	lisionErrors	0	RetransmissionLi		
	ortFrames	ŏ	UnderrunPackets	Ö	
	CErrors	0	CarrierSenseLost	0	
Ove Phone Port Statis	errunPackets	0			
Phone Port Statis	eico .		2		
Channel	1	3	2		
RxVoicePacket		0	0	0	
RxMin.litter	s 0 0	0	0	0	
RxMaxJitter	n	0	0	0	
RxRTPAvgJitte		0	0	0	
RxDTMFPacket		0	0	0	
TxVoicePackets		0	0	0	
TxGrantReSyn		0	0	n	
TxDTMFPacket		0	0	0	
TOTAL THE PACKET	50 ST.	0	0	0	
Microfbeedlowd		-	0	0	
MicroOverflow(work fi				
MicroOverflow(PktsLostByNet TxHoldDropCor		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

Status Help
n help with IP connectivity 0

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

			-1402S Router	
Home	Advanced	Tools	Status	Hel
Home				
 Wizard 				
 WAN 				
 LAN 				
 DHCP 				
Advanced				
 Virtual Se 	erver			
 Filters 				
 Firewall 				
• RIP				
Routing				
VoIPNAT				
 NAT Misc. 				
• WISC.				
Tools				
Admin				
 System 				
Firmware				
• SNMP				
• Time				
 Reboot 				
Status				
 Device Int 	fo.			
 Stats 				
 Diagnosti 	cs			

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

