

DVG-5121SP VoIP Telephone Adapter User's Manual





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1. Introduction

1-1. Product Overview

D-Link[®], an industry leader in networking, introduces the DVG-5121SP VoIP Telephone Adapter for the home environment. The DVG-5121SP VoIP Telephone Adapter converts any existing analog telephone (corded or cordless) into an IP phone. Also, by plugging in a FAX machine, the DVG-5121SP will enable users to send and receive faxes the same way as a traditional analog telephone line.

The DVG-5121SP carries both voice and facsimile over the IP network. It supports the SIP industry standard call control protocol and is compatible with free registration services or VoIP service providers' systems. It also supports the most popular audio CODECs to ensure compatibility and voice quality.

The DVG-5121SP provides two FXS ports to connect to two analog telephone sets, one PSTN lifeline port to connect to the phone line, and two Fast Ethernet (10/100) ports to connect to the VoIP Telephone Adapter to the LAN and WAN.

VoIP service providers can configure service settings such as a server address, CODEC and STUN settings via TFTP directly to the DVG-5121SP.

For security, all of the configuration settings are encrypted. Only VoIP service providers/resellers with the authenticated password and user name can access them.

The DVG-5121SP features both VAD (Voice Activity Detection) and CNG (Comfort Noise Generator) to reduce the bandwidth consumption and to sustain voice quality.

The DVG-5121SP has a built-in QoS setting to provide voice priority in IP networks and prevent dropped calls.

1-2. Product Features

WAN:

One RJ-45 10/100Mbps auto-MDI/MDIX Ethernet port WAN types: Static IP, PPPoE, DHCP, PPTP, BigPond, L2TP VPN Pass Through QoS: IP Precedence, DiffServ NAT Traversal: Outbound Proxy, STUN, UPnP SIP and RTP Priority Queuing RTP Packet Summary: sent, received, loss packet count NTP: Time Server, Time Zone support DDNS: DynDns.org, EasyDNS.com, No-IP.com, dlinkddns.com MAC Address Clone

LAN:

One RJ-45 10/100Mbps auto-MDI/MDIX Ethernet port Router or Bridge mode NAT / PAT Virtual Server, DMZ DHCP Server Firewall: MAC Filter, IP Filter, Port Filter

VoIP:

Two FXS RJ-11 ports One FXO RJ-11 PSTN Life Line port

Management:

LEDs: Power, Provision, WAN, LAN, Phone1, Phone2 Web-based configuration utility, TELNET Password controlled administration Remote firmware upgrade via TFTP or FTP Built-in PING tool Reset button to restore default settings

Voice

Pond Key SIPv2 compliance SIP Methods: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, PING, PRACK, REFER, REGISTER, SUBSCRIBE, UPDATE

SIP Extension: Session Timer, Proxy-Require, P-Asserted, MWI Voice Compression: G.711 a/u-law, G.726, G.729A/B, G.723.1 CNG and VAD Silence suppression and detection 168 Echo Cancellation Adaptive jitter buffer Programmable gain control In-band DTMF Out-of-band DTMF relay: RFC2833 DTMF Termination Impedance: 600/900 and complex Impedance Failover SIP Proxy server registrations

Failsafe Mechanism (FXS relay to PSTN):

Network failure Service unavailable Power loss T.30 FAX pass through, T.38 real time FAX relay Caller ID: DTMF, FSK-Bellcore Call Hunting support Phone book E.164 numbering Hot line

Call features:

Call Hold, Call Waiting, Call Pickup Call Forward - Unconditional, Busy, No Answer Call Transfer - Unattended, Attended Speed Dialing, Repeat Dialing, Three Way Calling (Media Server required) Digit Maps

1-3. Diagnostic LEDs and External Interfaces

Front Panel



Power LED	When this LED is on, the DVG-5121SP is powered on.
Provision LED	The Provision LED flashes during access to the TR-069 provision ACS and turns off after provision process finished.
LAN LED	When a connection is established, this LED lights up. The LED will blink to indicate activity. If the LED does not light up when a cable is connected, verify the cable connections and make sure the connected devices are powered on.
WAN LED	When a connection is established, this LED lights up. The LED will blink to indicate network traffic is passing through the WAN port. If the LED does not light up when a cable is connected, verify the cable connections and make sure the connected devices are powered on.
Phone 1 LED Phone 2 LED	These LEDs display the VoIP status and hook activity on the phone ports that are used to connect to the analog telephones. If a phone connected to a phone port is off hook or in use, this LED will light up. When a phone is ringing, the LED will blink.

Rear Panel

Side Panel





RJ11 PSTN Life Line Phone Port	This port connects to the wall phone line using an RJ-11 phone cable.
Phone Ports x2	Each of these ports connects to an analog phone using an RJ-11 phone cable.
Reset Button	Use a paper clip or the tip of a pen to hold this button down for 10 seconds to reset the unit to its factory default settings. (power must be on)
Power Socket	This socket connects to the external power adapter.
WAN Port	This port connects to your broadband modem or router through an Ethernet cable.
LAN Port	This port connects to an Ethernet enabled computer or IP sharing device using an Ethernet
	cable.

WARNING: To avoid any possible damage to your DVG-5121SP device, do not connect the Phone 2 port to a wall phone line. If this is done, your DVG-5121SP may be damaged.

❹

2. Before You Begin

2-1. Package Contents



DVG-5121SP VoIP Telephone Adapter One CAT5 Ethernet Cable CD-ROM One Standard RJ-11 Phone Cable Quick Installation Guide 12VDC 1.25A Power Adapter If any of the above items are missing, please contact your reseller.

2-2. System Requirements for Configuration:

Make sure you have all of the following before you begin to set up the DVG-5121SP

A subscription with an Internet Service Provider (ISP) A Computer running Windows, with a CD-ROM drive and an Ethernet port An Ethernet-based broadband modem A standard analog telephone

3. Installation and Applications

3-1. VoIP Telephone Adapter Assigned with a Public IP Address

The VoIP Telephone Adapter will have a public IP address for Internet connection regardless of whether it is a static IP address, DHCP (using a Cable Modem), or PPPoE (Dialup / DSL).

Setting	Action
Telephone Adapter IP Settings	Need to set up as static IP,
	DHCP, or PPPoE
NAT/STUN Settings	Optional
DDNS Settings	Optional

3-2. VoIP Telephone Adapter in a NAT network

The VoIP telephone adapter uses a virtual IP address and the IP sharing function of other systems to connect to the Internet.

Setting	Action			
LAN IP address of IP sharing	Please avoid using the IP addresses 192.168.1.1-192.168.1.254 (You may need to change the settings for IP sharing or change the LAN Port IP address.)			
VoIP Telephone Adapter IP Settings	Set as station default VolF	Set as static IP address, and assign the LAN IP address for IP sharing to the default VoIP Telephone Adapter.		
NAT /STUN Settings	Enable If the WAN setting uses a static IP address, then the NAT IP address is set as the public IP address for IP sharing.			
	If the WAN setting uses a dynamic IP address, the comply with the DDNS settings. When using NA enter the URL (Uniform Resource Locator) that in the DDNS server.		ting uses a dynamic IP address, then it has to e DDNS settings. When using NAT, you must (Uniform Resource Locator) that is registered to rer.	
DDNS Settings	The WAN setting uses a static IP address.		Disable the DDNS settings	
	The WAN setting uses a dynamic IP address.		Enable the DDNS settings: enter the registered URL (Uniform Resource Locator) into the network settings -> under NAT	



3-3. Telephone Interface Description

Connecting the DVG-5121SP to the phone sets

After connecting telephone sets to the Phone 1 and Phone 2 FXS ports, each set acts as an independent IP line that is provided by the applied SIP server.

Connecting the DVG-5121SP to the PSTN/PBX

The Life Line port is a PSTN/ PBX <FXO> interface that connects to your telephone line for normal PSTN calls. The Life Line port is only a back up solution enabled automatically when the network or SIP phone fails.



3-4. Accessing the Web-based Configuration Utility

D-Link DVG-5121SP Login - Microsoft Internet Explor	er	T B X
File Edit View Favorites Tools Help		A*
🚱 Back 🔹 🐑 🔹 🛃 🌈 Search 👷 Fa	worites 🚱 😥 🎍 🖸 🛛 🖕 🖓	
Address 🕘 http://192.168.1.1/sysinfo.htm		🔽 🄁 Go Links 🎽
	DVG-5121SP Login	
	R SX	
	Enter your password	
	User Name admin	
	Password	
	Login Reset	
		1
Done		Internet

Instructions

Step 1: Open an Internet browser.

Step 2: Enter VoIP telephone adapter's WAN Port IP address in the website address field. If the PC is

connected to the LAN Port, enter the LAN Port IP address. The default IP address is 192.168.1.1

Step 3: Enter "admin" for the User Name and the Password is left blank. (factory default settings)

You can save the current settings on the Telephone Adapter at any time by going to the Tools > System menu in the web-based configuration utility and clicking the Save button.

Note:

The DVG-5121SP VoIP telephone adapter doesn't allow multiple people to configure the VoIP telephone adapter at the same time. If a user is already logged into the system, other users from different IP addresses cannot login at the same time. Please remember to logout or restart the system if not using the web-based configuration utility, otherwise some of the network management features, like Telnet will not available.

4. Basic Network Settings

4-1. WAN

The basic network settings are used to configure the VoIP telephone adapter's communication ports, IP configurations, ADSL service setting, IP tunneling, etc. Refer to the following pages for an explanation of the different WAN settings.

4-1-1. Static IP

Every computer on the Internet has an address, similar to the way every building on a street has an address. This allows you to distinguish between every computer on the Internet. You may have come across a number such as "198.69.121.3" or something similar. This is an Internet Protocol (IP) address.

WAN Port IP Assignment: Select Static IP if your ISP (Internet Service Provider) assigned you a fixed IP address, subnet mask, and DNS server addresses. Please contact your local ISP if you have any questions about these settings.

orks for People VoIP	DVG-5121SP Telephone Adapter subscript 2168.1 200 2 Help 2 Logou
work Setting Basic Network Setting	
	WAN Setting
Server WAN Port IP Assignment :	Static IP ○ DHCP ○ PPPoE ○ PPTP ○ L2TP ○ BigPond
Host Name :	DVG-5121SP, dlink.com
WAN Port MAC :	Original MAC (00:1b:11:56:0c:58) ○ Manual Setting 00 - 00 - 00 - 00 - 00 - 00 Clone MAC Address
Ping from WAN :	⊙ Allow ○ Deny
MTU :	1500 bytes
IP Address :	0000
Subnet Mask	
Default Cateway :	
Delauli Caleway.	
Primary DNS Server :	
Secondary DNS Server :	0.0.0
	Submit Reset

Basic Network Setting > WAN > Static IP

Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the VoIP Telephone Adapter and may be changed.

- WAN Port MAC: The default MAC Address is set to the WAN's physical interface MAC address on the VoIP telephone adapter. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone MAC Address** button to replace the WAN port MAC address with the MAC address of the Ethernet card on your computer. Select Manual Setting to manually change the WAN Port MAC address.
- **Ping from WAN:** While enabled, this allows pings from the WAN through the Internet to check if the device is working or not.
- **MTU:** You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. 1500 bytes is the default MTU.

IP Address: Enter the IP address assigned by your ISP.

Subnet Mask: Enter the subnet mask assigned by your ISP.

Default Gateway: Enter the default gateway assigned by your ISP.

Set DNS server: Enter the Primary and Secondary DNS server IP addresses assigned by your ISP.

4-1-2. DHCP

DHCP (Dynamic Host Configuration Protocol) enables individual computers on an IP network to extract their configurations from a server (the DHCP server) or servers, in particular, servers that have no exact information about the individual computers until they request the information. The overall purpose of this is to reduce the work necessary to administer a large IP network. The most significant piece of information distributed in this manner is the IP address.

WAN Port IP Assignment: Select DHCP (the most common setting) to configure the WAN port MAC, WAN port ping, and DNS server settings.



Basic Network Setting > WAN > DHCP

Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the telephone adapter and may be changed.

- WAN Port MAC: The default MAC Address is set to the WAN's physical interface MAC address on the VoIP telephone adapter. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone MAC Address** button to replace the WAN port MAC address with the MAC address of the Ethernet card on your computer. Select Manual Setting to manually change the WAN Port MAC address.
- **Ping from WAN:** While enabled, this allows pings from the WAN through the Internet to check if the device is working or not.
- **MTU:** You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. 1500 bytes is the default MTU.
- Set DNS server: The default setting is "Automatically." If you choose "Manually", you must enter the Primary and Secondary DNS server IP addresses assigned by your ISP.

4-1-3. PPPoE (DSL)

PPPoE (Point-to-Point Protocol over Ethernet) is a proposal specifying how a host personal computer (PC) interacts with a broadband modem to achieve access to the growing number of high-speed data networks. Relying on two widely accepted standards, Ethernet and the point-to-point protocol (PPP), the PPPoE implementation requires virtually no more knowledge on the part of the end user other than that required for standard dial-up Internet access. In addition, PPPoE requires no major changes in the operational model for Internet Service Providers (ISPs) and carriers. The significance of PPPoE has to do with its far greater ease of use versus competing approaches.

WAN Port IP Assignment: Select PPPoE.



Basic Network Setting > WAN > PPPoE

Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the telephone adapter and may be changed.

WAN Port MAC: The default MAC Address is set to the WAN's physical interface MAC address on the VoIP telephone adapter. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone MAC Address** button to replace the WAN port MAC address with the MAC address of the Ethernet card on your computer. Select Manual Setting to manually change the WAN Port MAC address.

Ping from WAN: While enabled, this allows pings from the WAN through the Internet to check if the device is working or not.

MTU: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. 1500 bytes is the default MTU.

PPPoE Username: Enter your PPPoE user name.

PPPoE Password: Enter your PPPoE password and then retype the password in the next box.

Service Name: Enter the ISP Service Name (optional).

IP Address: Enter the IP address (Static PPPoE only).

Connect Type: Select either Keep Alive or Manual on.

Max Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select Keep Alive as the connect type.

Set DNS server: The default setting is "Automatically." If you choose "Manually", you must enter the Primary and Secondary DNS server IP addresses assigned by your ISP.

4-1-4. PPTP

PPTP (Point-to-Point Tunneling Protocol) was developed by a consortium including Microsoft and is used for establishing VPN (Virtual Private Network) tunnels across the Internet. This allows remote users to securely and inexpensively access their corporate network from anywhere on the Internet.

PPTP uses a client-server model for establishing VPN connections. Most Microsoft operating systems ship with a PPTP client, so there is no need to purchase third-party client software. PPTP has the additional advantage over other VPN technologies of being easy to setup.

WAN Port IP Assignment: Select PPTP.

D-Link Building Networks for People	VoIP	DVG-5121SP Telephone Adapter	🍳 admin:192.168.1.200
🐒 Tool 👻		N. 1M	🙋 Help 🛛 🙋 Logout
DVG-5121SP Basic Network Setting	Basic Network Setting		
Advanced Network Setting		WAN Setting	
Generating Generating Generating Generating	WAN Port IP Assignment :	⊖ Static IP ○ DHCP ○ PPPoE ● PPTP ○ L2TP ○ BigPond	
🗄 🎒 Status	Host Name :	DVG-5121SP dlink.com	
	WAN Port MAC :	⊙ Original MAC (00:1b:11:56:0c:58) ○ Manual Setting 00 . 00 <td></td>	
	Ping from WAN :	⊙ Allow ○ Deny	
	MTU :	1400 bytes	
	7	⊙ Dynamic IP ◯ Static IP	
	IP Address :	0.0.0.0	
	Subnet Mask :	0.0.0.0	
	Gateway:	0.0.0.0	
	Server IP/Name :	PPTP_SERVER	
	PPTP Account :	PPTP_USERNAME	
	PPTP Password :	••••••	
	Retype Password :	*********	
	Connect Type :	Keep Alive 👻	
	Max Idle Time :	600 seconds. (default:600)	
	Set DNS server :	○ Manually ③ Automatically	
		Submit Reset	
			Local Area Connection Speed: 100.0 Mbps

Basic Networking Setting > WAN > PPTP

Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the telephone adapter and may be changed.

WAN Port MAC: The default MAC Address is set to the WAN's physical interface MAC address on the VoIP telephone adapter. It is not recommended that you change the default MAC address unless required by your ISP. Select Manual Setting to manually change the WAN Port MAC address.

Ping from WAN: While enabled, this allows pings from the WAN through the Internet to check if the device is working or not.

MTU: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. 1500 bytes is the default MTU.

IP Address: Enter the IP address provided by your ISP. (Static PPTP only)

Subnet Mask: Enter the subnet mask provided by your ISP. (Static PPTP only)

Gateway: Enter the gateway provided by your ISP. (Static PPTP only)

Server IP/Name: Enter the Server IP provided by your ISP (optional).

PPTP Account: Enter your PPTP account name.

PPTP Password: Enter your PPTP password and then retype the password in the next box.

Connect Type: Select either Keep Alive or Manual on.

Max Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select Keep Alive as the connect type.

Set DNS server: The default setting is "Automatically." If you choose "Manually", you must enter the Primary and Secondary DNS server IP addresses assigned by your ISP.

4-1-5. L2TP

L2TP (Layer Two Tunneling Protocol) is an extension of the Point-to-Point Tunneling Protocol (PPTP) used by an Internet service provider (ISP) to enable the operation of a virtual private network (VPN) over the Internet.

WAN Port IP Assignment: Select L2TP.

D-Link Building Networks for People	VoIP	DVG-5121SP Telephone Adapter	🍳 edmin: 192.168.1.200
🔏 Tool 👻		N. 500	🙋 Help 🛛 🙋 Logout
OVG-5121SP Desic Network Setting	Basic Network Setting		
SIP Setting		WAN Setting	
	WAN Port IP Assignment :	O Static IP ○ DHCP ○ PPPoE ○ PPTP ⊙ L2TP ○ BigPond	
i ∰ Status	Host Name :	DVG-5121SP dlink.com	
	WAN Port MAC :	⊙ Original MAC (00:1b:11:56.0c:58) ○ Manual Setting 00 00 00 00 00 00	
	Ping from WAN :	O Allow ○ Deny	
	MTU :	1400 bytes	
	IP Address : Subnet Mask : Gateway : Sener IPNiame	O Dynamic IP O Static IP 0000 0000 0000 12TP SERVER	
	L2TP Account : L2TP Password :		
	Retype Password :	•••••	
	Connect Type : Max Idle Time :	Keep Alive V 600 seconds. (default:600)	
	Set DNS server :	O Manually ③ Automatically	
		Submit Reset	

Basic Network Setting > WAN > L2TP

Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the telephone adapter and may be changed.

WAN Port MAC: The default MAC Address is set to the WAN's physical interface MAC address on the VoIP telephone adapter. It is not recommended that you change the default MAC address unless required by your ISP. Select Manual Setting to manually change the WAN Port MAC address.

Ping from WAN: While enabled, this allows pings from the WAN through the Internet to check if the device is working or not.

MTU: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. 1400 bytes is the default MTU.

IP Address: Enter the IP address provided by your ISP. (Static L2TP only)

Subnet Mask: Enter the subnet mask provided by your ISP. (Static L2TP only)

Gateway: Enter the gateway provided by your ISP. (Static L2TP only)

Server IP/Name: Enter the Server IP provided by your ISP (optional).

L2TP Account: Enter your L2TP account name.

L2TP Password: Enter your L2TP password and then retype the password in the next box.

Connect Type: Select either Keep Alive or Manual on.

Max Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, select Keep Alive as the connect type.

Set DNS server: The default setting is "Automatically." If you choose "Manually", you must enter the Primary and Secondary DNS server IP addresses assigned by your ISP.

4-1-6. BigPond

This service is supported in Australia only.

WAN Port IP Assignment: Select BigPond.

D-Link Building Networks for People	VolP	DVG-5121SP Telephone Adapter	🍳 admin:192.168.1.200
🐒 Tool 🗸			🙋 Help 🛛 🙋 Logout
Basic Network Setting	sic Network Setting		
Advanced Network Setting SIP Setting		WAN Setting	
F VOIP Setting Tools	WAN Port IP Assignment :	⊖Static IP ⊖DHCP ⊖PPPoE ⊖PPTP ⊖L2TP ⊙BigPond	
🗄 🚰 Status	Host Name :	DVG-5121SF dlink.com	
	WAN Port MAC :	 Original MAC (00:1b:11:56:0c:58) ○ Manual Setting 00 - 00 - 00 - 00 - 00 - 00 Clone MAC Add 	tress
	Ping from WAN :		
	BigPond Account :	BIGPOND_USERNAMI	
	BigPond Password :	•••••	
	Retype Password :	•••••	
	Auth Server :	sm-server 💌	
	Server IP/Name :	0.0.0	
		Submit Reset	

Basic Network Setting > WAN > BigPond

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.

WAN Port MAC: The default MAC Address is set to the WAN's physical interface MAC address on the VoIP telephone adapter. It is not recommended that you change the default MAC address unless required by your ISP. You can use the **Clone MAC Address** button to replace the WAN port MAC address with the MAC address of the Ethernet card on your computer. Select Manual Setting to manually change the WAN Port MAC address.

Ping from WAN: While enabled, this allows pings from the WAN through the Internet to check if the device is working or not.

BigPond Account: Enter your BigPond user name.

BigPond Password: Enter your BigPond password and then retype the password in the next box.

Auth Server: Select sm_server or dce_server from the drop-down menu.

Server IP/Name: Enter the IP address of the login server.

4-2. LAN

LAN setting

This section will allow you to change the local network settings of the telephone adapter and configure the DHCP settings.

D-Link DVG-5121SP - Microsoft Interne	Explorer	
File Edit View Favorites Tools Help		N
🌏 Back 🝷 🐑 💌 😰 🏠 🔎	Search 🤺 Favorites 🕢 🔗 - 🌺 🔯 - 📙 🖓	
Address 🗃 http://192.168.1.1/login.cgi		🔽 🄁 Go 🛛 Links 🌺
D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
🎸 Tool 👻		😕 Help 🛛 😕 Logout
DVG-5121SP	Basic Network Setting	
DHCP Server	LAN IP Address 19216811	
Email: SIP Setting	Subnet Mask : 255 255 0	
En Petting En Petting En Petting	DNS Proxy : O Enable O Disable	
	Submit Reset	
ē)		🔮 Internet

Basic Network Setting > LAN

LAN IP Address: Enter the LAN IP address of the telephone adapter. The default IP address is 192.168.1.1.If you change the IP address, after you click the Submit button, you will need to enter the new IP address in your browser to get back into the configuration.

Subnet Mask: Enter the Subnet Mask. The default subnet mask is 255.255.255.0.

DNS Proxy: Enable the DNS Proxy to transfer the DNS server information from your ISP to your computers. If disabled, your computers will use the telephone adapter for a DNS server.

4-3. DHCP Server

🗿 D-Link DVG-5121SP - Microsoft Internet Ex	plorer	
File Edit View Favorites Tools Help		A.
🚱 Back 🔹 🐑 💌 📓 🏠 🔎 Sea	rch 👷 Favorites 🚱 🔗 - 嫨 🔯 - 🛄 🖓	
Address 🗃 http://192.168.1.1/login.cgi		🖌 🄁 Go 🛛 Links 🎽
D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
🌠 Tool 👻		💋 Help 🛛 🙋 Logout
DVG-5121SP	Basic Network Setting	
	DHCP Server Setting	
DHCP Server Advanced Network Setting	DHCP Server : O Enable O Disable	
B → Advanced Network Setting SIP Setting OUP Setting D → VOP Setting D → Tools D → Status	Assigned DHCP IP Address : Start IP: 192 . 168 . 1 . 200 End IP: 192 . 168 . 1 . 250 DHCP IP Lease Time : 1 Day v	
	Submit Reset	
	DHCP Static Map	
	Enable : 🔿 Enable 💿 Disable	
	IP:192.168.1.	
	MAC: 00 - 00 - 00 - 00 - 00	- 00
	Description :	
	Submit Reset	
	DHCP Static List	
	Enable IP MAC Address Descri	iption
✓		~
Cone		🥑 Internet

Basic Network Setting > DHCP Server

4-3-1. DHCP Server Setting

The DVG-5121SP has a built-in DHCP (Dynamic Host Control Protocol) server. The DHCP Server will automatically assign an IP address to the computers on the LAN/ private network. Be sure to set your computers to be DHCP clients by setting their TCP/ IP settings to "Obtain an IP Address Automatically." When you turn on your computers, they will automatically load the proper TCP/IP settings provided by the DVG-5121SP. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool. **DHCP Server:** Select Enable or Disable. The default setting is Enable.

Assigned DHCP IP Address: Set the starting IP address and the ending IP address for the DHCP server's IP assignment.

DHCP IP Lease Time: The length of time for the IP lease. Select the Lease time from the drop-down menu. The default setting is one hour.

4-3-2. DHCP Static Map

DHCP Static Map: Select Enable or Disable. The default setting is Disable.

IP: Enter the IP address of the client.

MAC: Enter the MAC address of the client.

Description: Enter any in order to distinguish from other clients.

5. Advanced Network Settings

5-1. NAT

5-1-1. NAT Setting

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Advanced Network Setting > NAT > NAT Setting

NAT Settings: You can choose what kinds of NAT need to be supported in this page.

MASQUERADE: IP masquerading allows one or more workstations on a LAN to be concealed behind a single Linux machine connected to the Internet. The workstations on the LAN can access the Internet almost transparently even without valid IP addresses. The Linux box rewrites outgoing packets from the LAN to the Internet in such a way that they appear to originate from the Linux machine. Response packets coming back in are re-written and routed back to the correct workstations on the LAN. This arrangement allows many Internet applications to run transparently from the LAN workstations.

IPSec Pass Through: IPsec is a framework for a set of protocols for security at the network or packet processing layer of network communication. Enable or Disable this framework verification.

PPTP Pass Through: PPTP is a protocol that allows corporations to extend their own corporate network through private tunnels over the public Internet. Enable or Disable this protocol verification.

- L2TP Pass Through: L2TP is an extension to PPP, which is an important component for VPNs. VPNs allow users and telecommuters to connect to their corporate intranets or extranets. Enable or Disable this function.
- **SIP ALG:** SIP ALG (Application Layer Gateway) is a signaling protocol for Internet conferencing, telephony, presence, events notification and instant messaging. Enable or Disable this protocol verification.
- **NetMeeting ALG:** NetMeeting ALG (Application Layer Gateway) is used to configure the different accessibility options of your system. It enables an authorized user to access this computer remotely by using NetMeeting over a corporate intranet. Enable or Disable this protocol verification.
- **DMZ:** If you have multiple PCs, you can choose one of the computers to be between the Internet connection and the firewall. This exposes that computer to the Internet without security and should only be enabled if absolutely necessary. Enable or Disable this function.

5-1-2. Virtual Server Setting

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Advanced Network Setting > NAT > Virtual Server Setting

Virtual Server: Select Enable or Disable.

Private IP: Enter the IP address of the server computer in the LAN (Local Area Network) that will be providing the virtual services.

Protocol Type: Select the protocol used for the virtual server.

Private Port: Enter the port number of the service used by the Private IP computer.

Public Port: Enter the port number on the WAN (Wide Area Network) side will be used to access the virtual server.

- Schedule: The schedule of time when the virtual server will be enabled. The schedule may be set to Always, which allows the particular server to always be enabled. If it is set to By Schedule, select the time frame for the server to be enabled.
- **Example:** You have a Web server that you want Internet users to be able to access at all times. The Web (HTTP) server is on the LAN (Local Area Network) computer 192.168.0.25. HTTP uses port 80, TCP.

Use the following settings:

Name: Web Server Private IP: 192.168.0.25 Protocol Type: TCP Private Port: 80 Public Port: 80 Schedule: Always

5-1-3. Application Setting

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DVG-5121SP. If you need to run applications that require multiple connections, specify the port normally associated with an application in the Trigger Port field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic.

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		Application Setting
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Advanced Network Setting > NAT > Application Setting

Special Application: Select Enable or Disable.

Trigger Port: This is the port used to trigger the application. It can be either a single port or a range of ports.

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

Public Port: This is the port number on the WAN side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

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

- Schedule: The schedule of time when the special application will be enabled. The schedule may be set to Always, which allows the particular application to always be enabled. If it is set to By Schedule, select the time frame for the application to be enabled.
 - **Note!** These settings are for advanced users only. Incorrect settings will cause the phone to work improperly. Contact your ITSP for more information or assistance. The DVG-5121SP does not support the feature for making a call without registering to a Proxy.

5-1-4. UPnP Setting



Advanced Network Setting > NAT > UPnP

UPNP Internet Gateway Device: Select Enable or Disable. UPnP provides compatibility with networking equipment, software and peripherals of the over 400 vendors that cooperate in the Plug and Play forum.
5-2. Route

Static Route

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Advanced Network Setting > Route > Static Route

If the WAN setting uses a static IP address, then the NAT IP address is set as the Public IP address for IP sharing.

Static Route: Select Enable or Disable.

Type: Select net or host from the drop-down menu.

Target: Input the public IP Address provided by your ISP or the server.

Netmask: Enter the subnet mask. (All devices in the network must have the same subnet mask.)

Gateway: Enter the gateway provided by your ISP.

5-3. Security

5-3-1. MAC Filter

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Advanced Network Setting Rode Security Fibre URL Filter Ornain Filter Firewall VOIP Setting Se	Enable O Disable Active MAC Address Schedule Log Enable MAC Address	MAC Filter	

Advanced Network Setting > Security > MAC Filter

Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the network.

MAC Filter: Select Enable or Disable.

Active: Select Yes or No.

MAC Address: Enter the MAC Address.

Schedule: The schedule of time when the MAC filter will be enabled. The schedule may be set to Always, which allows the particular filter to always be enabled. If it is set to By Schedule, select the time frame for the filter to be enabled.

5-3-2. IP Filter

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Advanced Network Setting > Security > IP Filter

IP Filter: Use IP Filters to deny LAN IP addresses from accessing the Internet. You can deny specific port numbers or all ports for the specific IP address. Select Enable or Disable.

Active: Select Yes or No.

IP: Enter the IP address or a range of IP addresses of the LAN computer(s) that will be denied Internet access.

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

Protocol Type: Select the protocol type from the drop-down menu.

Schedule: The schedule of time when the IP filter will be enabled. The schedule may be set to Always, which allows the particular filter to always be enabled. If it is set to By Schedule, select the time frame for the filter to be enabled.

5-3-3. URL Filter

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E Done					🥑 Internet

Advanced Network Setting > Security > URL Filter

URL Filter: Select Enable or Disable.

Active: Select Yes or No.

Client IP: Enter the IP address or a range of IP addresses.

URL Filter String: Enter the URL filter string.

5-3-4. Domain Filter

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±≦Status	Enable	Client IP Rrange	Domain Filter String	Log
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Advanced Network Security > Security > Domain Filter

Domain Filter: Select Enable or Disable.

Active: Select Yes or No.

Client IP: Enter the IP address or a range of IP addresses.

Domain Filter String: Enter the URL filter string.

5-3-5. Firewall

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MAC Filter	Active :	💿 Yes 🔘	No			
URL Filter	Action :	○ Allow ⊙ Deny				
Firewall		Interface	IP Range Start	IP Range End	Protocol	Port Range
Rule Summary	Source :	WAN 🚩	0.0.0.0	0.0.0.0		
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Advanced Network Setting > Security > Firewall

Firewall: Select Enable or Disable.

Active: Select Yes or No.

Action: Select Allow or Deny.

- **Source:** Choose WAN or LAN as the Source and enter a range of IP Addresses on the Internet that you would like this rule applied to. Enter the IP Address of the computer on your local network that you want to allow the incoming service to. This will not work with a range of IP Addresses.
- **Destination:** Select LAN or WAN as the Destination and enter the IP Address of the computer on your local network that you want to allow the incoming service to. This will not work with a range of IP Addresses. Enter the port or range of ports that are required to be open for the incoming service.
- Schedule: The schedule of time when the firewall will be enabled. The schedule may be set to Always, which allows the particular firewall to always be enabled. If it is set to By Schedule, select the time frame for the firewall to be enabled.
- Log: Select Enable or Disable.

5-3-6. Rule Summary

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DVG-5121SP B-Basic Network Setting	Advance	ed Network S	etting				
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This page contains a list of all the security settings rules.

6. SIP Setting

6-1. Basic Setting

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DVG-5121SP	SIP Setting			
Advanced Network Setting	Basic	Setting		
SIP Setting	Phone 1 SIP Port Number :	5060	(1024-65535, default: 5060)	
Account Setting	Phone 2 SIP Port Number :	5060	(1024-65535, default: 5060)	
International I	Session Timer :	1800	(1-65535, default:1800) seconds	
E ··· ● Tools E ··· ● Status	Media Port Start :	5000	(1024-65535, default:5000)	
	Media Port End :	5009	(1024-65535, default:5009)	
	Transport :	UDP 🔽		
	SIP Time Interval :	500	(100-1000, default:500)	
	Timeout for Invite :	12	(1-100, default:12)	
	Timeout for Ring Back :	180	(1-1000, default:180)	
	Timeout for Release :	4	(1-10, default:4)	
	Registration Retry Count :	65535	(0-65535, default:65535)	
	Registration Retry Interval :	30	(0-65535, default:30)	
	PING Interval :	0	(0-65535, default:0)	
	SIP User Agent Name :	VOIP_Agent_		
	PRACK :	○Enable ⊙	Disable	
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SIP Setting > Basic Setting

SIP Port Number: This is also called an outbound proxy. The SIP (Session Initiation Protocol) Port Number handles SIP call signaling as a standard SIP proxy server. It receives and transmits phone conversation traffic (media) between two VoIP telephone adapters. This option tells the VoIP telephone adapter to send and receive all SIP packets to the destined outbound proxy server rather than the remote VoIP telephone adapter. This helps VoIP calls to pass through any NAT protected network without additional settings or techniques. Please make sure your VoIP service provider supports outbound proxy services before you enable it. Session Timer: This setting can help to avoid excessive billing due to a dropped call.

Media Port Start: Enter the beginning of the listening port range.

Media Port End: Enter the end of the listening port range.

Transport: Select UDP or TCP from the drop-down menu.

SIP Time Interval: Enter the desired time interval which the VoIP telephone adapter will report to Proxy Server.

Timeout for Invite: The time for the server to invite the clients to connect.

Timeout for Ring Back: The time for ring back control while making a call.

Timeout for Release: The time for the VoIP telephone adapter to release from the server.

Registration Retry Count: Retry Count timing.

Registration Retry Interval: The time between each retry connection.

PING Interval: The time between ping packets.

SIP User Agent Name: The default setting is VOIP_Agent_001.

PRACK: The default setting for PRACK (Provisional Response Acknowledgement) is Disable.

6-2. Account Setting

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DVG-5121SP	SIP Setting			
Basic Network Setting		Ac	count Setting	
		Authentication Expired Time :	3600	(60-65535, default:3600) seconds
Basic Setting		Phone 1 Enable :	⊙Enable ○Disable	
NAT Traversal 		Phone Number :	555	
Tools		Display Name :	555	
		Authentication User Name :	555	7
		Authentication Password :	•••	
		Confirmed Password :	•••	
		MWI Enable :	○Enable ⊙Disable	
	Phone 1	P-Asserted :	🔿 Enable 💿 Disable	
		Domain Name :		
		Registrar Server Address :	172.21.49.248	
		Registrar Server Port :	5060	(1024-65535, default:5060)
		Proxy Address :	172.21.49.248	
		Proxy Port :	5060	(1024-65535, default 5060)
		Use Outbound Proxy for Session :	🔿 Enable 💿 Disable	
		DNS SRV suppot :	○Enable ⊙Disable	
✓	Phone 2	Phone 2 Enable :	○Enable ⊙Disable	· · · · · · · · · · · · · · · · · · ·
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SIP Setting > Account Setting

Authentication Expired Time: The time for authentication expiration.

Note! These settings are for advanced users only. Incorrect settings will cause the phone to work improperly. Contact your ITSP for more information or assistance. The DVG-5121SP does not support the feature for making a call without registering to a Proxy.

6-3. NAT Traversal

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	Basic Setting		NAT Traversal :	⊙Enable ○Disable	
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				◯ Enable ⊙ Disable	
	E		Phone I SIP NAT Keep Alive	15 (1-3600, default:15) seconds	
			Phone 2 SIP NAT Keen Alive :		
			Filone 2 Sir NAT Keep Alive	15 (1-3600, default:15) seconds	
				Submit Reset	
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SIP Setting > NAT Traversal

NAT Traversal: Select Enable or Disable.

Traversal By: Select STUN or UPNP. Use STUN to prevent problems with setting the IP sharing function, but some NAT do not support this protocol. Use UPnP to enable the VoIP telephone adapter's IP traffic to pass through a NAT server. This function only works when the NAT server supports UPnP and has it enabled.

SIP NAT Keep Alive: Select Enable or Disable. Enter the time value for keep alive.

7. VOIP Setting

7-1. Voice Setting

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DVG-5121SP Basic Network Setting	VoIP Setting									
		Voice	Setting							
Voice Setting		Packet Length :	20 msec. 💌 (default:20)							
Call Service		G.726 32K Payload Type Value :	98 🕶 (default:98)							
E.164 Setting		Outband 2833 Payload Type Value :	100 🕶 (default:100)							
General Dialing Setting		RTP Timeout :	25 (5-100, default:25) seconds							
GOS / TOS Setting		RTP Packet Lost Percentage :	50 (0-100, default:50) %							
En En Screen En En E		Maximum ICMP Unreachable :	10 (0-1000, default:10)							
		PSTN Switch Mode :	Auto Mode 🛛 (default:Auto Mode)							
		Codec Priority 1 :	Auto Mode							
		Codec Priority 2 :	G.711/Alaw							
		Codec Priority 3 :	G.729A 💌							
		Codec Priority 4 :	G.723.1 💌							
		Codec Priority 5 :	G.726(32Kbps) 💙							
		Codec Priority 6 :	iLBC 💌							
		G.723 Rate :	6.3 Kbps 💙 (default:6.3 Kbps)							
	Phone 1	iLBC mode :	30 msec. 👻 (default:30)							
		DTME Mathad -	In-band pass through mode 💌 (default:In-band pass							
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VoIP Setting > Voice Setting

Packet Length: Select a packet length from the drop-down menu.

G.726 32K Payload Type Value: Select the payload type value from the drop-down menu.

Outband 2833 Payload Type Value: Select the payload type value from the drop-down menu.

RTP Timeout: Enter a value for the RTP timeout.

RTP Packet Lost Percentage: Enter the percentage for RTP packet lost.

Maximum ICMP Unreachable: Enter a value for the maximum ICMP unreachable.

D-Link Corporation

PSTN Switch Mode: Select Auto Mode or Always PSTN from the drop-down menu.

Codec Priorities: Use this field to select the type of voice coder/decoder (codec) priority you want to use.

G.711/ Ulaw: Operates at 64 Kbps (standard), 56 Kbps, and 48 Kbps (non-standard).

Compresses frames of 14-bit linear PCM samples into frames of 8-bit logarithmic PCM code words.

G.711/ Alaw: Operates at 64 Kbps (standard), 56 Kbps, and 48 Kbps (non-standard).

Compresses 13-bit linear PCM samples into 8-bit logarithmic PCM code words.

G723.1: Operates at 6.3 Kbps and 5.3 Kbps. compression and decompression of 8 kHz speech signals.

G726: Operates at 40, 32, 24, and 16 Kbps.

G.729a/b: Operates on 10ms frames with short algorithm delays.

Compresses 8 kHz CODEC or linear audio data to 8 kbps.

iLBC: Internet Low Bit Rate Codec (iLBC) is a royalty free narrowband speech codec. Operates at 15 to 20 Kbps.

G.723 Rate: Select the G.723 rate from the drop-down menu.

iLBC mode: Select the iLBC mode from the drop-down menu.

DTMF Method: Choose what kind of pass through mode you want for the DTMF transmission.

Voice Active Detector: Select an option for silence suppression from the drop-down menu.

Line Echo Canceller Tail Length: G.168 is an ITU-T standard for eliminating the echo caused by the second by the sound of your voice reverberating in the telephone receiver while calling.

Acoustic Echo Canceller Tail Length: Acoustic echo is caused by direct and indirect feedback from speaker to microphone. You can control the specific canceller tail length based on any required local settings.

Automatic Gain Control Tx Level: Select the gain transmission level from 0 to 30.

Automatic Gain Control Rx Level: Select the gain transmission level from 0 to 30.

7-2. Call service

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DVG-5121SP		VolP Setting	1		
			(Call Service	
VOIP Setting Voice Setting			Call Waiting :	⊙Enable ○Disable	(default: enabled)
Call Service			Call Waiting Timeout :	30	(10-100, default:30) seconds
E.164 Setting			Call Hunting Group :	◯ Enable ⊙ Disable (default: Disable)	
FAX Setting			Call Repeat Timeout :	60	(60-3600, default:1800) seconds
QOS / TOS Setting			Call Transfer Option :	Allowed 🔽	
Call Screen			Call Forward Option :	Allowed 🔽	
±≦Status			Call Forward Always URI :	SIP: <set numb<="" phone="" td=""><td>pe @ <option:set domain="" name=""></option:set></td></set>	pe @ <option:set domain="" name=""></option:set>
			Call Forward on Busy URI :	SIP: <set numb<="" phone="" td=""><td>pe @ <option:set domain="" name=""></option:set></td></set>	pe @ <option:set domain="" name=""></option:set>
			Call Forward on NoAnswer URI :	SIP: <set numb<="" phone="" td=""><td>pe @ <option:set domain="" name=""></option:set></td></set>	pe @ <option:set domain="" name=""></option:set>
		Phone 1	Call Forward on NoAnswer Timeout :	30	(1-300, default:30) seconds
			Do Not disturb :	⊖Enable ⊙Disable	(default: disabled)
			Hot Line :	⊖Enable ⊙Disable	(default: disabled)
			Hot Line URI :	SIP: <set numb<="" phone="" td=""><td>e @ <option:set domain="" name=""></option:set></td></set>	e @ <option:set domain="" name=""></option:set>
			Anonymous Call :	⊖Enable ⊙Disable	(default: disabled)
			Reject Anonymous Call Coming :	⊖Enable ⊙Disable	(default: disabled)
	~		Call Transfer Option :	Allowed 🗸	
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VoIP Setting > Call Service

Call Waiting: Select Enable or Disable.

Call Waiting Timeout- The waiting timeout can be set if the call waiting function is enabled.

Call Hunting Group: Select Enabled or Disabled.

Call Repeat Timeout: Select a call repeat timeout value from the drop-down menu.

Call Transfer Option: Allow or deny the call transfer function for the specific phone port.

Call Forward Option: Allow or deny the call forward function for the specific phone port.

Call Forward Always URI: Enter the Forward Always Number for the automatic dialing function.

Call Forward on Busy URI: Enter the Forward on Busy Number for the automatic dialing function.

Call Forward on NoAnswer URI: Enter the Forward on No Answer Number for the automatic dialing function.

Call Forward on NoAnswer Timeout: Enter the Forward on NoAnswer Timeout value.

Do Not disturb: Select Enabled or Disabled.

Hot Line: When the phone is picked up, the VoIP telephone adapter automatically dials your assigned hotline number. While in hotline mode, other lines cannot be used. Select Enable or Disable.

Hot Line URI: Enter the hot line number for the automatic dialing function.

Anonymous Call: This is for outgoing calls and is used to prevent a caller from reaching a number when the caller has explicitly restricted the phone number on Caller ID.

Reject Anonymous Call Coming: Anonymous Call Rejection is for incoming calls and rejects calls from callers who have blocked the display of their number. Only deliberate anonymous numbers are rejected..

7-3. Phone Setting

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General Dialing Setting	≣		Caller ID Display :	Before Ring 🖌			
			Caller ID Type 1 Alerting Singal : 🛛 LR 🛛 💌				
Call Screen			Caller ID Type 2 Alerting Singal :	No Alert 🔽			
			Ring Impedance :	600ohm (default:600ohm)			
			Hook Flash Detect Upper Bound:	800	(100-3000, default:800) msec.		
		Phone 1	Hook Flash Detect Lower Bound:	100	(100-3000, default:100) msec.		
			Voice Tx Level :	6 🖌 (default:6)			
			Voice Rx Level :	6 🖌 (default:6)			
			Ring Impedance :	600ohm (default:600ohm)	<u>N</u>		
			Hook Flash Detect Upper Bound:	800	(100-3000, default:800) msec.		
		Phone 2	Hook Flash Detect Lower Bound:	100	(100-3000, default:100) msec.		
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VoIP Setting > Phone Setting

Tone Setting: Select the tone setting for your local area.

Caller ID Type: Select FSK type. In most cases, Bellcore is preferred in North America and ETSI in Europe.

Note: If you register the VoIP telephone adapter to a Proxy, you may be unable to make a call. This is due to the fact that the VoIP telephone adapter doesn't send the number for authorization.

Caller ID Power Level: Enter a value for the power level.

Caller ID Display: Shows caller ID in device information. Select Before Ring or After Ring.

Caller ID Type 1 Alerting Signal: Select the alerting signal type for when the phone is on-hook.

DTAS: Dual Tone Alert Signal RPAS: Ring Pulse Alert Signal LR: Line Reversal LR-DTAS: Line Reversal and Dual Tone Alert Singal

Caller ID Type 2 Alerting Signal: Select the alerting signal type for when the phone is off-hook.

Ring Impedance: Select the ring impedance based on your local requirements. Please contact your ITSP for more information.

Hook Flash Detect Upper Bound: Enter a value for Hook Flash Detect upper bound.

Hook Flash Detect Lower Bound: Enter a value for Hook Flash Detect lower bound.

Voice Tx Level: Select a voice transmission level from the drop-down menu.

Voice Rx Level: Select a voice receiving level from the drop-down menu.

7-4. E.164 Setting

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VoIP Setting > E.164 Setting

E.164 Enable: Select Enable or Disable.

Country Code: Enter the country code.

Area Code: Enter the area code.

Note: It depends on the proxy if you want to invite the proxy to follow the E.164 rule. If you fail to make a call, please contact your ITSP.

7-5. FAX Setting



VoIP Setting > FAX Setting

T.38 Option: Select on of the following options from the drop-down menu:

Voice: voice data

T.38 FAX Relay: Integrated and tested with Fax data modems at rates of up to 14.4 kbps. UDP and TCP support.

Voice and T.38 FAX Relay: both voice and T.38 Fax relay

Voice and T.38 Fax Pass Through: bridge mode

7-6. General Dialing Setting

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DVG-5121SP	VOIP Setting						
Basic Network Setting Advanced Network Setting	General Dia	ling Setting					
SIP Setting	Inter-digit Timeout :	4 (1-20, default:4) seconds					
Voir Setting	First-digit Timeout :	16 (1-60, default:16) seconds					
Call Service	Call feature Type :	◯ A type ⊙ B type(default:B)					
E.164 Setting FAX Setting	Call Waiting Cancel Code :	*70 (default:*70)					
General Dialing Setting	Forward Always Active Code :	*72 (default:*72)					
Phone Book	Forward Always Deactive Code :	*73 (default:*73)					
Tools	Forward Busy Active Code :	*90 (default:*90)					
	Forward Busy Deactive Code :	*91 (default:*91)					
	Forward Noanswer Active Code :	*92 (default:*92)					
	Forward Noanswer Deactive Code :	*93 (default:*93)					
	Do Not Disturb Active Code :	*78 (default:*78)					
	Do Not Disturb Deactive Code :	*79 (default:*79)					
	Call Return Code :	*69 (default:*69)					
	Anonymous Call/Block Caller ID (Per Call) Code :	*67 (default:*67)					
	Call Repeat/Call Back on Busy Active Code :	*66 (default:*66)					
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VoIP Setting > General Dialing Setting > B Type

Inter-digit Timeout: If no other number is being dialed within this interval, the Telephony ATA will terminate this call.

First-digit Timeout: If the phone is picked up and no number is dialed within this period of time, the tone will change to a busy tone

Call feature Type: Select A type (general) or B type (USA).

The call feature key control is listed on the following 2 pages for B type and A type.

B Type (default) Setting

Call hold: Push the phone set flash hook one time to enable this function while holding a call. **Note:** The flash hook pushing time can't be longer than 1/2 second.

Three Way Conference: Set up a call, then push the phone set flash hook once. **Note:** The flash hook pushing time can't be longer than 1/2 second.

Call Waiting Cancel Code: Default *70 Forward Always Active Code: Default *72 Forward Always Deactive Code: Default *73 Forward Busy Active Code: Default *90 Forward Busy Deactive Code: Default *91 Forward Noanswer Active Code: Default *92 Forward Noanswer Deactive Code: Default *93 Do Not Disturb Active Code: Default *78 Do Not Disturb Deactive Code: Default *79 Call Return Code: Default *69 Anonymous Call/Block Caller ID (Per Call) Code: Default *67 Call Repeat/Call Back on Busy Active Code: Default *66 Call Repeat/Call Back on Busy Deactive Code: Default *86 Screen Last Incoming Call Code: Default *60 Call Pickup Code: Default *98

Pound Key (#): Select Enable or Disable.

A Type Setting

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DVG-5121SP	VOIP Setting						
Advanced Network Setting	General Dia	ling Setting					
BIP Setting	Inter-digit Timeout :	4 (1-20, default:4) seconds					
Voice Setting	First-digit Timeout :	16 (1-60, default:16) seconds					
Call Service	Call feature Type :	O A type ○ B type(default:B)					
E.164 Setting	Transfer Code :	*# (default:*02)					
General Dialing Setting	New Call Code :	(default:*01)					
Phone Book	Call Waiting Cancel Code :	*70 (default:*70)					
Call Screen	Forward Always Active Code :	*72 (default:*72)					
	Forward Always Deactive Code :	*73 (default:*73)					
	Forward Busy Active Code :	*90 (default:*90)					
	Forward Busy Deactive Code :	*91 (default:*91)					
	Forward Noanswer Active Code :	*92 (default:*92)					
	Forward Noanswer Deactive Code :	*93 (default:*93)					
	Do Not Disturb Active Code :	*78 (default:*78)					
	Do Not Disturb Deactive Code :	*79 (default:*79)					
	Call Return Code :	*69 (default:*69)					
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VoIP Setting > General Dialing Setting > A Type

Call hold: Push the phone set flash hook one time to enable this function while holding a call.

Note: The flash hook pushing time can't be longer than 1/2 second.

Transfer Code: Default *#

New Call Code: Default **

Three Way Conference: Default *71

Call Waiting Cancel Code: Default *70

Forward Always Active Code: Default *72

Forward Always Deactive Code: Default *73

Forward Busy Active Code: Default *90

Forward Busy Deactive Code: Default *91

Forward Noanswer Active Code: Default *92 Forward Noanswer Deactive Code: Default *93 Do Not Disturb Active Code: Default *78 Do Not Disturb Deactive Code: Default *79 Call Return Code: Default *69 Anonymous Call/Block Caller ID (Per Call) Code: Default *67 Call Repeat/Call Back on Busy Active Code: Default *66 Call Repeat/Call Back on Busy Deactive Code: Default *86 Screen Last Incoming Call Code: Default *60 Call Pickup Code: Default *98

Pound Key (#): Select Enable or Disable.

Digit Map Setting

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VoIP Setting > General Dialing Setting > Digit Map Setting

The VoIP digit map allows VoIP calls with leading digits and length matching the rules specified to be dialed out immediately. It is a phone dialing plan that defines specific phone dialing behavior so the phone can know when an entered number is complete and therefore that the call should be initiated.

Digit Map Setting: Select Yes or No to enable or disable the digit map setting.

Applied Port: Select Port 1, Port 2, or ALL.

Digit Map Rule: The digit map is defined by a case insensitive string. It is a set of digits or timers, or an expression over which the gateway will attempt to find a shortest possible match. The following constructs can be used in each numbering scheme:

Individual Keys: 0, 1.... 9, *, and #

Timer: The letter "x" which matches any numeric digit (0 to 9).

Range: One or more keys enclosed between square brackets ("[" and "]").

- **Sub-range:** Two numeric digits separated by a hyphen ("-") which matches any digit between and including the two. The sub-range construct can only be used inside a range construct.
- **Repetition:** A period (".") which matches an arbitrary number, including zero, of occurrences of the preceding construct.

Example: Assume we have the 4 rules as follows:

(1) 0 [12]
 (2) 00
 (3) 1[12].1
 (4) 2x.#

Given the input "0", a match will occur immediately since position (".") allows for zero occurrences of the preceding construct. The input "00" can thus never be produced in this digit map.

Give the input "1", only a partial match exists. The input "12" is also only a partial match; however both "11" and "121" are a match.

Given the input "2" a partial match exists. A partial match also exists for the input "23", "234", "2345", etc. A full match does not occur here until a "#" is generated, for example "2345#". The input "2#" would also have been a match.

Policy Type: Select a policy type from the drop-down menu.

Policy: Enter the prefix and replace for the policy.

Note: Enter a note for the specific digit map setting.

7-7. QoS/TOS Setting

TOS



VoIP Setting > QOS/TOS Setting > TOS

Network traffic can be classified by setting the TOS (Type of Service) values at the data source so a server can decide the best method of delivery (least cost, fastest route, etc.).

SIP TOS: Select an option from the drop-down menu.

RTP TOS: Select an option from the drop-down menu.

DiffServ

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E.164 Setting		RTP DiffServ :	16		
General Dialing Setting		QOS Priority Setting			
🗃 QOS / TOS Setting 🛃 Phone Book		Priority :	⊙Enable (O Disable (default: Disable)	
Call Screen		Voice Priority :			
		Voice VLAN ID :	0	(0-1023)	
		Data Priority :			
		DATA VLAN ID :	0	(0-1023)	
	>	Submit	Reset		
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VoIP Setting > QOS/TOS Setting > DiffServ

DiffServ is a class of service (COS) model that marks packets so that they receive specific per-hop treatment. In addition, applications do not have to request a particular service or give advanced notice of whether traffic is going.

SIP DiffServ: Enter a value for SIP DiffServ. The default value is 16.

RTP DiffServ: Enter a value for RTP DiffServ. The default value is 16.

QoS Priority Setting

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VoIP Setting > QOS/TOS Setting > QOS Priority Setting

Quality of Service (QoS) refers to a network's ability to deliver data with minimum delay and the networking method used to provide bandwidth for real-time multimedia applications.

Priority: Select Enable or Disable.

Voice Priority: Select a value from the drop-down menu.

Voice VLAN ID: Enter a value for the voice VLAN ID.

Data Priority: Select a value from the drop-down menu.

DATA VLAN ID: Enter a value for the data VLAN ID. 64

7-8. Phone Book



VoIP Setting > Phone Book

Up to 50 phone numbers can be stored in the phone book. SpeedDial Digit provides shortcuts (#0 to #9) for dialing frequently used VoIP phones.

7-9. Call Screen



VoIP Setting > Call Screen

Use the Call Screen page to enter phone numbers you want to reject. Incoming calls and outgoing calls can be rejected. Enter the phone number, click the Submit button, and the phone number that was just entered will be displayed on the page.

<u>8. Tools</u>

8-1. Admin

🚰 D-Link DVG-5121SP - Microsoft Internet Ex	plorer					_ 7	×
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DVG-5121SP Basic Network Setting	Tools				_		Î
			Administrator	Account			
E → VOIP Setting 	Account L	evel : 🛛 Admin 🛓	×				
Admin	Account Na	ame : <mark>Admin</mark> User					
Day / Time	Account Passv	vord : Guest					
System	Confirm Passv	vord :					
Device Setting	Login Time	eout : 0	0	-32767, default:300, O:never) seconds			
±∎ status			Remote Admin	istration			
	Remote administra	tion : OEnabl	e 💿 Disable				
			Submit	Reset			
			Administrate	or List			
	Account Level	Account Name	e	Account Password			
	Admin	admin		*****			
	User	user		****			
	Guest	guest		*****	4		
							•
🙆 Done					🥝 Internet		

Tools > Admin

Account Level: Select Admin, User, or Guest for the account level.

Account Name: Enter the account name.

Account Password: Enter the password to be used for authentication.

Confirm Password: Reenter the password to be used for authentication.

Login Timeout: Enter a value for the login timeout.

Remote administration: Select Enable or Disable.

8-2. Page Configure

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DVG-5121SP B-Basic Network Setting	Tools			
	W	EB Page Authority Settin	g	
	Page	View Level	Configure Level	
Admin		Admin 💌	Admin 💌	
Page Configure Page Configure Day / Time Dony DDNS System Firmware		Submit Reset	Admin User Guest non Auth	
Device Setting		WEB Page Authority List		
E⊷jji Status	Page	View Level	Configure Level	
	Account Setting	Admin	Admin	
	Application Setting	Admin	Admin	
	Big Pond Setting	Admin	Admin	
	Call Screen Setting	Admin	Admin	
	Dumomia DNR Cotting	Admin	Admin	
	Duco Contex Catting	Admin	Admin	
	DHCP Server Setting	Admin	Admin	
	E 164 Numbering Cotting	Admin	Admin	
	E. 104 Numbering Setting	Admin	Admin	
	Fixewall Setting	Admin	Admin	
	Phone Setting	Admin	Admin	
	Ganaral Dial Softing	Admin	Admin	
🕙 Done			nī 🐑	nternet

Tools > Page Configure

WEB Page Authority Setting: Choose one of the pages from the WEB Page Authority List to change the view level and configure level as Admin, User, Guest, or non Authority.

8-3. Day/Time

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D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
🎸 Tool 👻		<u> 7</u> Help 🛛 🖉 Logout
PVG-5121SP Basic Network Setting Advanced Network Setting Point Sup Setting Point VOIP Setting	Date Time Set By : • Manual Time Setting • NTP Time Server Time Zone : (GMT+08:00) Beijing, Singapore, Taipei Date Value Setting : Year : 2007 Date Value Setting : Year : 2007 Minute : 34 Second : Submit Reset	3 51 Computer Clock
Done		🔮 Internet

Tools > Day / Time > Manual Time Setting

Manual Time Setting: Select manual time setting to manually input the time by entering the values for the Year, Month, Day, Hour, Minute, and Second. Click the Computer Clock button to copy your computer's time.

NTP Time Server: NTP (Network Time Protocol) synchronizes computer clock times in a network of computers. Enter the IP address of the NTP server in the box for NTP Server Address (see the screen shot on the following page).

Time Zone: Select the time zone.

Daylight Saving Settings

D-Link DVG-5121SP - Microsoft Internet	t Explorer	
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Address 🗃 http://192.168.1.1/login.cgi		🖌 🄁 Go 🛛 Links 🂙
D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
🎸 Tool 👻		😕 Help 🛛 🙋 Logout
DVG-5121SP	Tools	
	Date/Time	
	Date Time Set By : O Manual Time Setting O NTP Time Server	
Admin	Time Zone : (GMT+08:00) Beijing, Singapore, Taipei 🔽	
Day / Time	NTP Server Address :	
System	Enable Daylight Saving : 🔽	
Firmware	Month Week Day of Week Time	
	DST Start Jan 🗸 1st 🗸 Sun 🖌 12 am 🖌	
	DST End Jan 👻 1st 💟 Sun 💙 12 am 字	
	Submit Reset	
Cone		🥶 Internet

Tools > Day / Time > NTP Time Server

Enable Daylight Saving: Check the box to enable the Daylight saving function. Select the DST start and end time from the drop-down menus.

Please refer to the DST setting area and duration below.

	United	States	EU					
Year	DST Begins at 2	DST Ends at 2	Summertime	Summertime				
	a.m.	a.m.	period begins at 1	period ends at 1				
			a.m. UT	a.m. UT				
2007	March 11	November 4	March 25	October 28				
2008	March 9	November 2	March 30	October 26				
2009	March 8	November 1	March 29	October 25				
2010	March 14	November 7	March 28	October 31				
	US calculator valid 1976-2099; EU 1996-2099.							

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8-4. DDNS

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D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
🐔 Tool 👻		😕 Help 🛛 🖉 Logout
	Tools	
	DDNS Setting	
	DDNS : 📀 Enable 🔿 Disable	
	DDNS Server Type : DynDns.org	
Day / Time	DDNS Username :	
System	DDNS Password :	
Device Setting	Confirmed Password :	
⊞ j Status	Hostname to register :	
Done	Submit Reset	
Cone		💙 Internet

Tools > DDNS

DDNS (Dynamic Domain Name System) is a method of keeping a domain name linked to a changing IP Address. This is a useful feature since many computers do not use a static IP addresses.

DDNS: Select Enable or Disable.

DDNS Server Type: Select a DDNS server type from the drop-down menu.

DDNS Username: Enter the DDNS username.

DDNS Password: Enter the DDNS password and reenter it in the next box to confirm.

Hostname to register: Enter another domain name to replace the selected DDNS server (optional).

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8-5. System

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File Edit View Favorites Tools Help	rch 📌 Fauvriter 🙆 🔗 - 🦉 🖉 - 🔜 🕺	
Address Addres		Go Links »
D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
VOU DVG-5121SP Advanced Network Setting SIP Setting VOP Setting VOP Setting Day / Time Day / Time DoNS System Firmware Device Setting Status	Tools	Melp 🖉 Logout
	PING Test PING Destination : PING	
	Save/Restore Setting Save : Save device current configuration to local file Save Restore : Upload a local file to restore as device configuration: Restore : Browse Restore	
	Factory Default : Set device configuration to Factory default setting: Set	
Done		🔮 Internet

Tools > System

PING Test: Enter the host name or an IP address then click the PING button.

Save/ Restore Setting: Click the Save button to save the current settings to the local hard drive. To restore previously saved settings, click the Browse button, find the saved settings file on your computer, and click the Restore button to upload the settings.

Factory Default Setting: Click the Set button to restore the factory default settings.
DVG-5121SP User's Manual

8-6. Firmware

🚰 D-Link DVG-5121SP - Microsoft Internet E	xplorer	- 7 🛛
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DVG-5121SP Basic Network Setting	Tools	
	Local Firmware Update	
	Firmware File : Browse	
- B Admin - Page Configure - Day / Time - DNS	UPLOAD ETP/TETP Firmware Undate	
Firmware	Server Type : FTP	
E - Status	Provision Type : Firmware	
	Interval : Once 🗸	
	Server Address :	
	UPLOAD	
Cone		🥝 Internet

Tools > Firmware

You can upgrade the firmware of the VoIP telephone adapter here. Make sure the firmware you want to use is on the local hard drive of the computer. Please check the D-Link Support site for firmware updates at http://support.dlink.com. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware File: Check the D-Link support web site to find out if there is updated firmware; if so, download the new firmware to your hard drive, then click the UPLOAD button.

Server Type: Select FTP or TFTP from the drop-down menu.

Provision Type: Select the provision type from the drop-down menu.

Interval: Select the interval from the drop-down menu.

Server Address: Enter the IP address of your FTP, TFTP or HTTPS server then click UPLOAD.

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8-7. Device Setting

File Edit View Favorites Tools Help Image: Second S	Links »
Back Image: Search Address Image: Address Image: Address Image: Address <th>Links »</th>	Links »
Address http://192.168.1.1/login.cgi	Links »
D-Link DVG-5121SP	
Building Networks for People VoIP Telephone Adapter admin:192.168.1.3	
🔁 🖌 Tool 👻	ogout
DVG-5121SP Basic Network Setting	
BIP Setting Device Setting	
Device Mode : Router VIP	
Day / Time Subnet Mask : 255.255.0	
Ermware ■ Bevice Setting	
Submit Reset Reboot	
Done 🔮 Internet	

Tools > Device Setting

Device Mode: Select Router or Bridge mode from the drop-down menu.

Bridge/Lan IP: Enter the bridge/Lan IP address.

Subnet Mask: Enter the subnet mask.

DVG-5121SP User's Manual

8-8. TR-069 Setting (only for TR-069 firmware version)

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DVG-5121SP	TR-069	Setting
Basic Network Setting	Enable	⊖ Enable ⊙ Disable
Advanced Network Setting SIP Setting	Last Connection Time	none
	User Name	
Admin	Password	•••••••••
Day / Time	Confirmed Password	••••••••
DDNS	Server URL/IP	
Firmware	SSL Encrypt	⊖ Enable ⊙ Disable
€ Status	Periodic Inform Enable	● Enable Disable
	Periodic Inform Interval	20 sec
	Connection Request UserName	acsserver
	Connection Request Password	••••••
	Confirmed Password	
	Submit I	Reboot
		Totownet
C DOIR		S Internet

Tools > Device Setting > TR-069 Setting

TR-069 is a CPE WAN Management Protocol and it provides the communication between CPEs and ACS. It includes both a safe auto configuration and the control of other CPE management functions within an integrated framework.

TR-069 Enable: Select Enable or Disable.

SSL Encrypt: Select Enable or Disable.

Note: Please check with your ISP or ACS provider for the necessary setting information.

9. Status

9-1. Device Information

D-Link DVG-5121SP - Microsoft Internet	Explorer		
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Building Networks for People	VoIP Te	lephone Adapter	🍳 admin:192.168.1.3
🍸 Tool 🚽			😕 Help 🛛 💋 Logout
<u> </u>			(^
DVG-5121SP	Status		
Advanced Network Setting			
		Device Information	
Tools	Model Name :	DVG5121SP	
Status	Firmware Version :	1.10, STD, FRI, 8 JUN 2007	
Bevice Info	Host Name :	DVG-5121SP . dlink.com	
Intables Log	System Date :	Mon Jan 1 08:40:08 CST 2007	
State	Up Time :	40 min	
	Device Mode :	Router Mode	
		WAN	
	IP Assignment :	DHCP	
	MAC Address :	00:1B:11:56:0C:52	
	IP Address :	172.21.81.41	
	Subnet Mask :	255.255.240.0	
	Gateway Address :	172.21.80.254	
	DNS 1 (Primary) :	172.21.1.1	
	DNS 2 (Secondary) :	172.21.1.2	
	Other DNS :	172.16.1.9 ,,	
		Release IP Renew IP	
		LAN	
	MAC Address :	00:1B:11:56:0C:53	
	IP Address :	192.168.1.1	
✓	Subnet Mask :	255.255.255.0	
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Status > Device Info

This page displays the current device information for the DVG-5121SP.

9-2. System Log

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🌋 Tool 👻		_		😕 Help ½ Logout
DVG-5121SP	Status			
			System Log	
			prev 1 of 1 next	
- Status	Date/Time	Log Level	Information	
	Jan 1 08:40:14	daemon.info	using nameserver 172.21.1.1#53	· · · · · · · · · · · · · · · · · · ·
iptables Log	Jan 1 08:40:14	daemon.info	using nameserver 172.21.1.1#53	
State	Jan 1 08:40:14	daemon.info	using nameserver 172.21.1.2#53	
CDR	Jan 1 08:40:14	daemon.info	using nameserver 172.16.1.9#53	
	Jan 1 08:40:14	daemon.info	reading /etc/resolv.conf	
	Jan 1 08:40:14	daemon.info	read /etc/hosts - 4 addresses	
	Jan 1 08:40:14	daemon.warn	running as root	
	Jan 1 08:40:14	daemon.info	compile time options: no-IPv6 GNU-getopt ISC	-leasefile no-DBus
	Jan 1 08:40:14	daemon.info	started, version 2.24 cachesize 150	
	Jan 1 08:40:04	user.info	UPNPD: wan status change to Connected	
	Jan 1 08:20:03	user.notice	User Login admin:192.168.1.3	
	Jan 1 00:00:14	daemon.info	^MStarting pid 449, console /dev/tts/0: /sbin/a	igetty'
	Jan 1 00:00:11	user.info	UPnP Internet Gateway Device start up!	
	Jan 1 00:00:07	user.notice	klogd started: BusyBox v1.01 (2007.06.07-08:	40+0000)
E Done				S Internet

Status > Log

The VoIP telephone adapter keeps a running log of events and activities occurring on the device. If the device is rebooted, the logs are automatically cleared.

9-3. IP tables Log

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Address 🗃 http://192.168.1.1/login.cgi		🔽 🄁 Go 🛛 Links 🎽
D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	Q admin:192.168.1.3
🛠 Tool 👻		😕 Help 🛛 😕 Logout
DVG-5121SP Basic Network Setting Advanced Network Setting SIP Setting VolP Setting Status Device Info Log Idades Log State CDR	Status	ext Information
E Done		💙 Internet

Status > Iptables Log

This page shows the MAC Filter, IP Filter, URL Filter, Domain Filter, and Firewall information.

9-4. Line Status



Status > State

This page displays the current information for the Line status and the RTP Packet summary.

9-5. CDR

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Address 🗃 http://192.168.1.1/login.cgi		So Links 🎽
D-Link Building Networks for People	DVG-5121SP VoIP Telephone Adapter	🍳 admin:192.168.1.3
🔨 Tool 🗸		😕 Help 🛛 🔀 Logout
DVG-5121SP Basic Network Setting Advanced Network Setting SIP Setting Tools Status Device Info Log Iptables Log State Cor	CDR Call type Phone Num Call time Answer time Disconnect time F Refresh	Reason Durace time Phone Port
Done		S Internet

Status > CDR

The CDR (Call Detail Record) contains information about recent system usage, including the identities of sources (points of origin), the identities of destinations (endpoints), the duration of each call, the amount billed for each call, the total usage time in the billing period, the total free time remaining in the billing period, and the running total charged during the billing period. The format of the CDR varies among VoIP providers or programs. Some programs allow CDRs to be configured by the user.

10. Telnet

Run Telnet: In Windows, go to the start menu and select Run. Enter "telnet 192.168.1.1" in the box.

When you want to use the telnet interface to change the settings, it's necessary to totally log out from the Web page control because the server doesn't allow 2 users to be logged in at the same time.



Start > Run

Authentication: Enter "admin" for the username and leave the password blank to login to the Telnet control interface. Select the item number to change the settings or type "q" to quit and exit the program.

I Telnet 192.168.1.1	- 🗆 X
Username:admin	
Password: A.Dasia Natural Catting	
U-DASIC Network Setting	
2:SID setting	
3:UnIP Setting	
4:Tools	
5:Status	
q:Exit	
[5121SP]#	
新注 半:	-