

D-Link[®]

DVG-2101SP VOIP TELEPHONE ADAPTER

USER MANUAL

v1.02AU



VOICE OVER IP

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Introduction

The D-Link DVG-2101SP VoIP Telephone Adapter links conventional telephony devices such as analog phones or fax machines to IP networks. The DVG-2101SP includes one Ethernet port and one RJ-11 telephone jack that provides voice communication over the IP network. It is also equipped with one PSTN (RJ-11) jack to allow the device to connect to the PSTN line. The Ethernet port is for a DSL/Cable Modem or other WAN (Wide Area Network) devices such as a Router or Gateway. It can be configured and monitored using a web browser.

This VoIP Telephone Adapter can reduce or eliminate long distance or inter-office phone charges by routing calls over the Internet or any IP network. Corporations can also enjoy the benefits of network consolidation and reduction of leased lines by relying on the Internet service providers to deliver toll-quality voice communications over the IP networks.

With this device, you can make and receive calls from the Internet or PSTN (make only).

Package Contents

- 1 x DVG-2101SP VoIP Telephone Adapter
- 1 x CAT5 Ethernet Cable (Blue)
- 2 x RJ-11 Phone Cables (Grey)
- 1 x 12V/1.5A AC/DC Adapter
- 1 x CD-ROM with Product Documentation
 - User Manual
 - Quick Setup Guide

Features

• WAN Support

- One 10/100Mbps auto-MDI/MDIX Ethernet port
- WAN Type: Static IP, Dynamic IP & PPPoE
- MAC Address Clone
- NAT Traversal: Outbound Proxy, STUN
- Dynamic DNS support: DLinkDDNS, DynDNS
- VLAN ID Tag
- QoS: IP Precedence
- NTP

• Management

- Web-based (HTTP), Telnet, and Telephone keypad configuration (dial prefix)
- Built-in Ping Tool
- Remote firmware upgrade via TFTP, HTTP, HTTPS, and FTP
- Multi-function reset button: IVR , reset , restore factory default settings
- Password Protected - controlled Admin and User Access Authority
- Auto Provisioning:
 - + Web-based Administration and Configuration via Integrated Web Server
 - + Telephone Key Pad Configuration with Interactive Voice Prompts, Automated Provisioning & Upgrade via HTTPS, HTTP, TFTP, FTP
 - Interactive Voice Response (IVR)
- SNMP V1/V2C

• Call In & Call Out

- Voice over IP Call
- PSTN Phone Call (out only)
- IP Address Calling
- Three Way IP to IP Conference Call

• Call Features

- Call Forwarding: No Answer / Busy / Unconditional
- Call Transfer: Unattended / Attended
- Call Waiting / Call Pickup / Call Hold / Call Back On Busy / Call Return
- Three Way Calling (Media Server required)
- MWI (Message Waiting Indicator) based on LED & Tone
- DND (Do Not Disturb)
- Warm Line
- Hot Line
- Selective / Anonymous Call Rejection
- Music On Hold
- Caller ID (Type I and Type II)
- Caller ID Blocking
- Speed Dialing, Repeat Dialing
- Consultation Hold

- **Voice Functionality**

- SIPv2 (RFC3261) compliance
- SIP Proxy Redundancy: Dynamic via DNS SRV, A Records Re-registration with Primary SIP Proxy Server
- SIP Extension: Session Timer, Proxy-Require
- MD5 Authentication for SIP
- SIP NAT Keep Alive Timer
- VPN
- Flash Hook Timer
- Adaptive Jitter Buffer
- Programmable Gain Control
- In-band DTMF
- Out-of-band DTMF relay: RFC2833 / SIP Info
- DTMF
- Termination Impedance: 600 / 900 & complex Impedance
- Failover SIP Proxy server registrations
- T.30 FAX pass through, T.38 real time FAX relay
- Caller ID: DTMF, FSK-Bellcore, FSK-ETSI detection and generation by country select
- Telephone book
- Voice Codec Feature: G.711 u-law/a-law, G.723.1/iLBC (optional), G.726, G.729.A/B
- VAD (Voice Activity Detection)
- CNG (Comfort Noise Generation)
- G.165/G.168 Echo Cancellation
- Silence Suppression & Detection

Front Panel

Register LED

This LED will light solid if the phone account registers successfully. This LED will flash during registering and light off if registering fails.

Power LED

This LED will light solid when the device finishes a self-test and booting up. This LED will flash during device self-test and booting and light off if the self-test fails.

Phone LED

This LED will light solid when the telephone is off-hook. A fast blinking LED indicates an incoming call and a slow blinking LED indicates a message is waiting. This LED will light off if the phone connected to the phone port is on-hook.



Provision LED

This LED will light up solid if the device provisions successfully. The LED will flash during provisioning and will be off if provisioning fails.

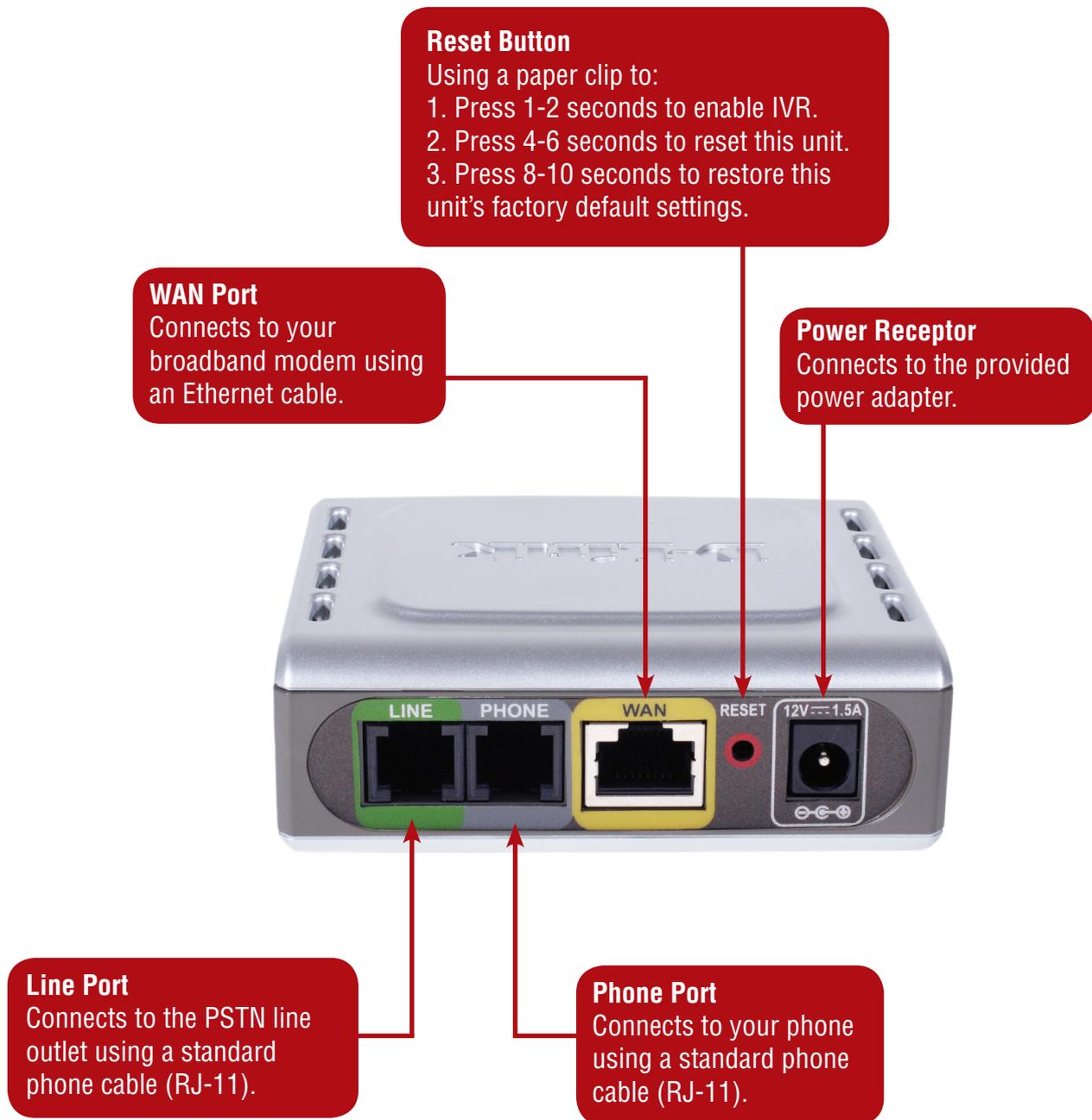
Line LED

This LED will light solid when a connection is established and blink to indicate activity.

WAN LED

This LED will light solid when a connection is established and blink to indicate activity. If this LED does not light up when a cable is connected, verify the cable connections and make sure your devices are powered on.

Back Panel



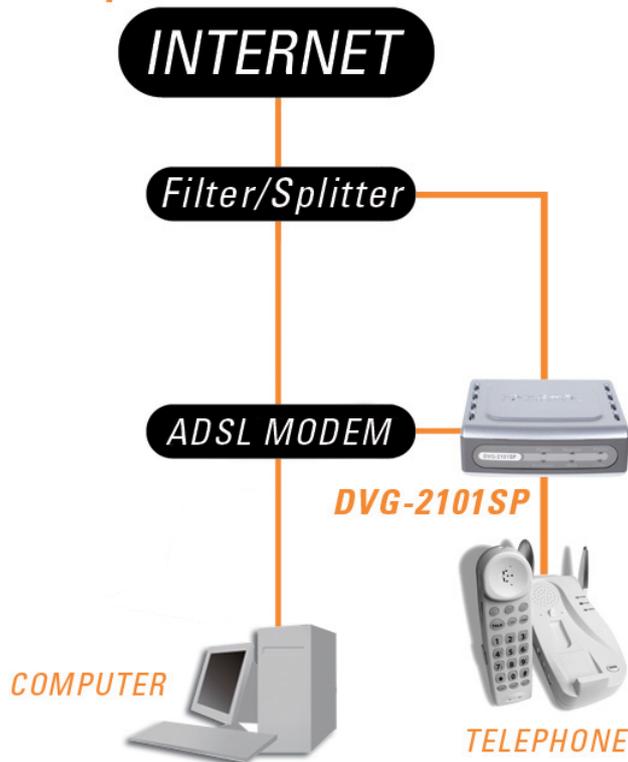
Hardware Installation

Connecting the DVG-2101SP Directly to a Modem in Bridge Mode

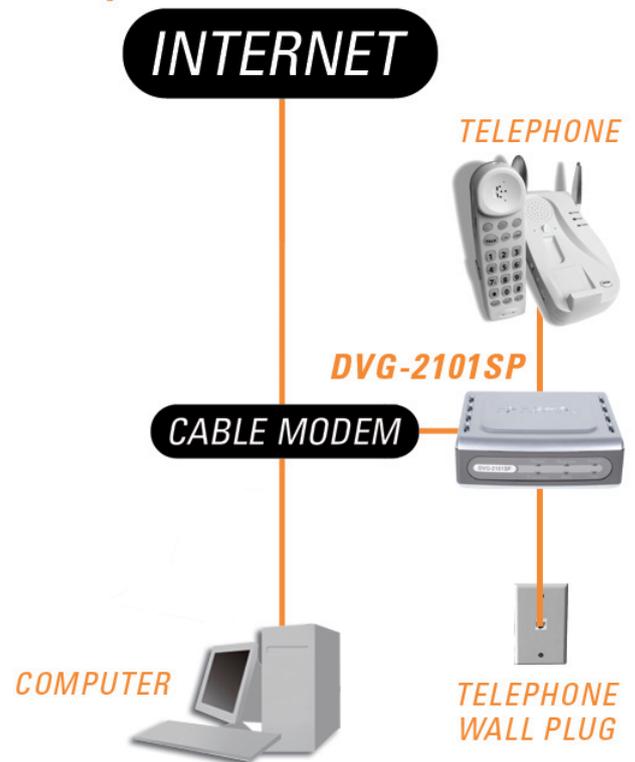
If your computer connects directly to a DSL or Cable modem and does not connect to a router, follow the steps below to install your DVG-2101SP.

Note: If your modem only has the one Ethernet port and it is being used by your computer then you will require a Router/Gateway, please see the next page for details on connecting using a Router/Gateway..

Option 1 (ADSL)



Option 2 (Cable)

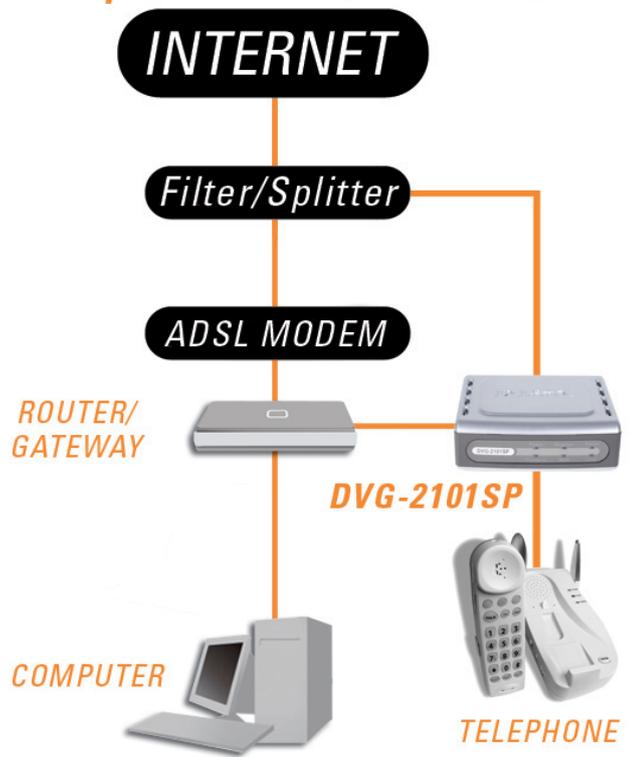


1. Turn off your computer.
2. Disconnect the power to your Cable/DSL modem (unplug or turn off the power switch).
3. Unpack the Ethernet cable (blue) that comes with DVG-2101SP. Attach one end of the Ethernet cable (blue) provided in this package to a LAN or Ethernet port on your Cable/DSL modem. If there are no Ethernet ports available on your modem, you should include a Router/Gateway in your network setup (see diagram on the next page).
4. Attach the other end of the provided Ethernet cable to the WAN port of the DVG-2101SP.
5. Attach one end of the provided phone cable (grey) to a standard analog telephone.
6. Attach the other end of the phone cable to the PHONE port on the rear panel of the DVG-2101SP.
7. Attach one end of the provided phone cable (grey) to a PSTN wall socket.
8. Attach the other end of the phone cable to the LINE port on the rear panel of the DVG-2101SP.
9. Reconnect the power to the Cable/DSL modem (plug in or turn on the power switch).
10. Unpack the 12V DC power adapter that comes with the DVG-2101SP. Connect the power adapter to the power connector on the DVG-2101SP.
11. Connect the other end of the power adapter to an available electrical outlet (wall socket or surge protector).
12. Restart your PC.

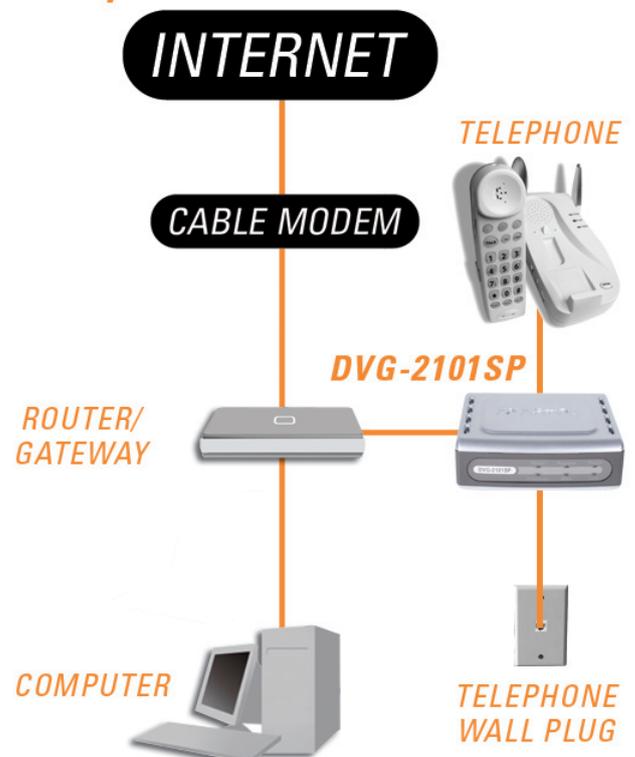
Connecting the DVG-2101SP Behind a Router (Recommended)

If you wish to connect your DVG-2101SP behind a router, follow the steps below. After the steps are completed, your setup should look similar to the diagram below.

Option 1 (ADSL)



Option 2 (Cable)



1. Turn off your computer.
2. Disconnect the power to the Cable/DSL modem (unplug the modem or turn off the power switch).
3. Disconnect the power to your existing router (unplug the router or turn off the power switch).
4. Unpack the Ethernet cable (blue) that came with the DVG-2101SP.
5. Attach one end of this Ethernet cable to the WAN port on the rear of the DVG-2101SP.
6. Attach the other end of this Ethernet cable to a LAN port on your existing router.
7. Be sure that the Ethernet cable that is plugged into the WAN port of your existing router is still plugged into your Cable/DSL modem.
8. Unpack the phone cable (grey) that came with the DVG-2101SP. Attach one end of this cable to a standard analog telephone.
9. Attach the other end of this cable to the PHONE port on the rear of the DVG-2101SP.
10. Attach one end of the provided phone cable (grey) to a PSTN wall socket.
11. Attach the other end of the phone cable to the LINE port on the rear panel of the DVG-2101SP.
12. Unpack the 12V DC power adapter that came with the DVG-2101SP.
13. Connect the power adapter to the power connector on the DVG-2101SP.
14. Connect the other end of the power adapter to an available electrical outlet (wall socket or surge protector).
15. Reconnect the power to the Cable/DSL modem (plug in or turn on the power switch).
16. Reconnect the power to your existing router (plug in or turn on the power switch).
17. Restart your PC.

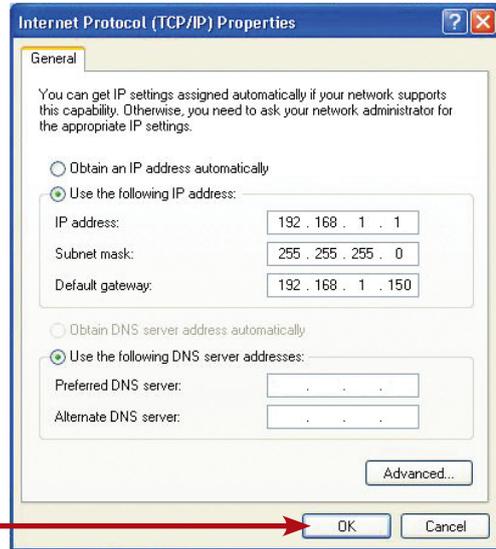
By default the unit is already configured to work behind a router. Be sure to change your computer's IP settings to DHCP (to automatically be assigned an IP address from the DVG-2101SP) regardless of what type of Internet connection you have. (Please refer to your Network Interface Card's manual for more detailed information.)

Configuration

Prior to using your Web Browser for accessing the web-based configuration utility, if DHCP is not enabled on your network, be sure to assign a static IP address to the VoIP Telephone Adapter.

Use the computer that was last connected directly to your Cable/DSL modem. Right-click **My Network Places** > select **Properties** > right-click **Local Area Connection** > select **Properties** > double-click **Internet Protocol (TCP/IP)**.

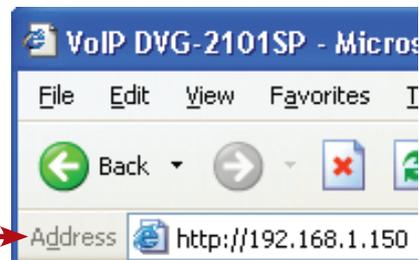
Set your PC's IP address to 192.168.1.1 and the subnet mask to 255.255.255.0. The default gateway and primary DNS server IP addresses should be the LAN IP address of the DVG-2101SP (192.168.1.150).



Click **OK**.

In order to use a web browser to configure the VoIP Adapter you must make sure it has a valid Ethernet connection to a PC or LAN via its LAN port. Access the configuration utility to check the LAN port by entering the IP Address into your web browser address field.

Open your Web browser and type http://192.168.1.150 into the URL address box. Press the Enter or Return key.



When you first log in, enter the Username "admin" and leave the Password blank. These may be changed later.

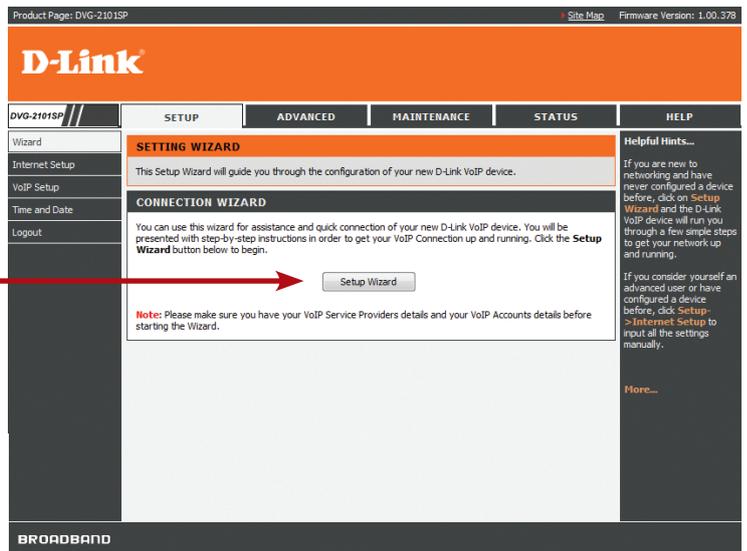


Click the **Login** button.

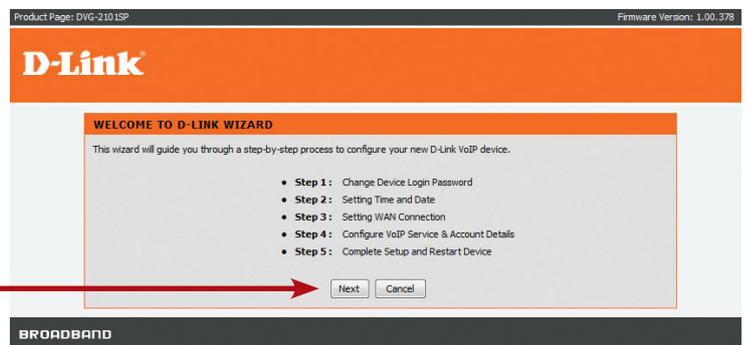


The Setup Wizard will guide you through the quick setup steps.

Click **Setup Wizard**.



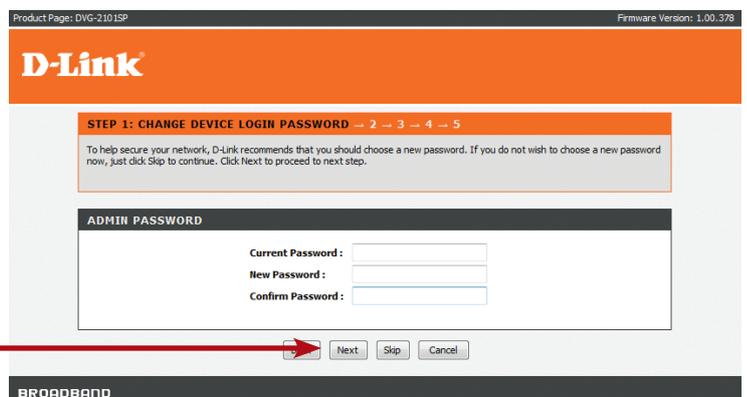
Click **Next**.



Step 1

You can change the login password during this step or just leave it the same as the default value.

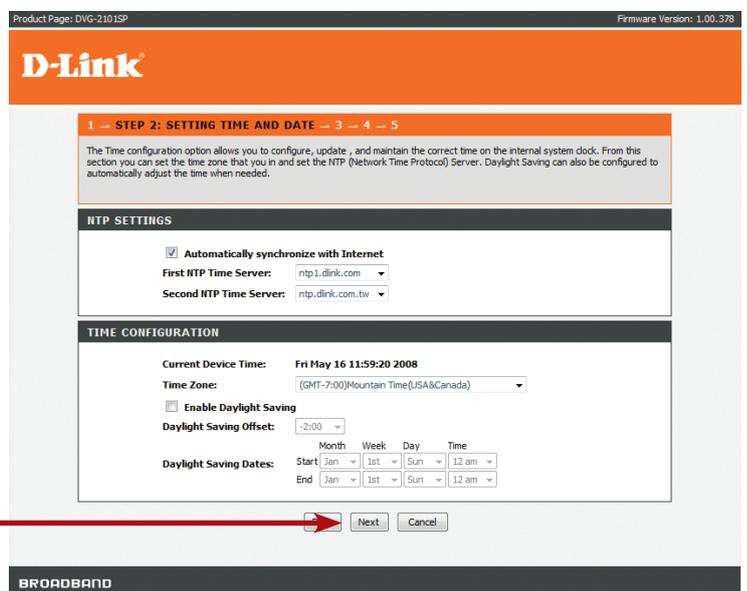
Click **Next**.



Step 2

You can setup the require Time Zone for your location to keep all Logs and Call Records with Local Time.

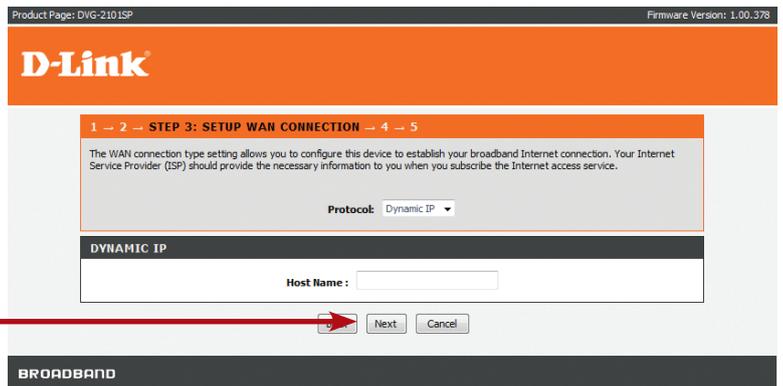
Click **Next**.



Step 3

Configure your WAN connection. These are either provided by your ISP/ITSP or from your network administrator

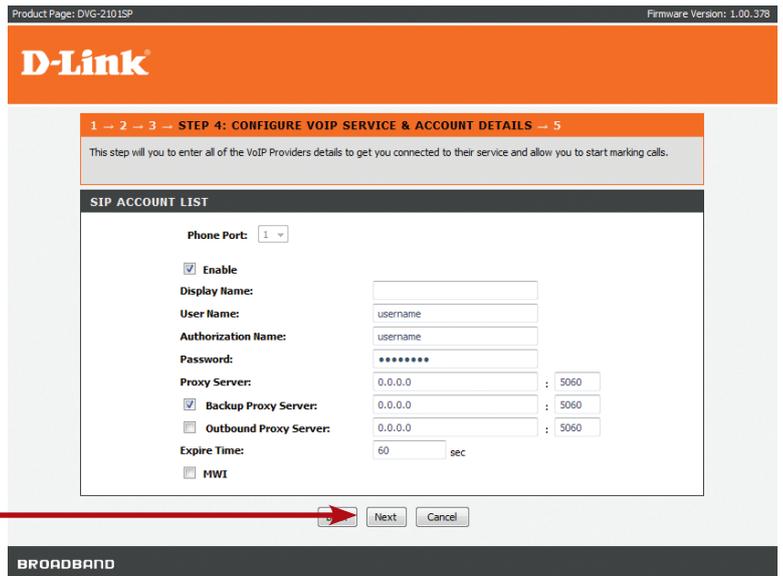
Click Next.



Step 4

Enable and configure your SIP account (phone port) with the settings provided by your ISP/ITSP.

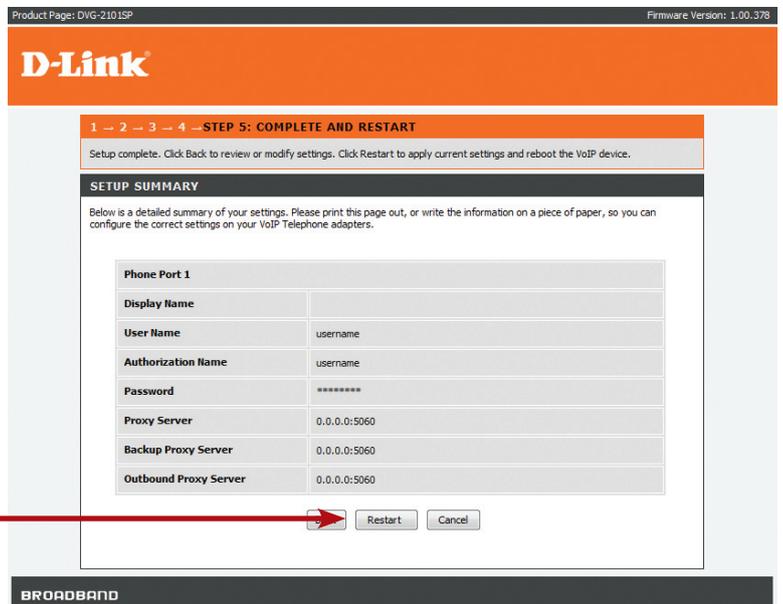
Click Next.



Step 5

Setup is finished. Click Restart to reboot the device. Once the adapter has finished rebooting allow up to 2 minutes to connect to your ITSP.

Click Restart.



Setup

Internet Setup

Connection Type

The WAN connection type setting allows you to configure this device to establish your Broadband Internet connection. Your Internet Service Provider (ISP) should provide the necessary information to you when you subscribe to the Internet access service, unless you are connecting the DVG-2101SP behind a Router / Gateway device.

Dynamic IP

Choose Dynamic IP if the VoIP Telephone Adapter is to obtain its WAN IP address from a DHCP server (e.g. Router / Gateway device).

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DVG-2101SP // **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

Wizard
Internet Setup
VoIP Setup
Time and Date
Logout

WAN

The WAN connection type setting allows you to configure this device to establish your broadband Internet connection. Your Internet Service Provider (ISP) should provide the necessary information to you when you subscribe the Internet access service.

Protocol: Dynamic IP ▾

DYNAMIC IP

Host Name :

Helpful Hints...

When configuring the D-Link VoIP device to access the Internet, be sure to choose the correct Connection Type from the list below. If you are unsure of which option to choose, contact your Internet Service Provider (ISP).

If you are having trouble accessing the Internet through the D-Link VoIP device, double check any settings you have entered on this page and verify them with your ISP if needed.

[More...](#)

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Host Name

Input the host name of this device to be shown in the DHCP server log.

Static IP

Choose Static IP Address if the WAN IP information is provided to you by your ISP or you want to assign a Static IP address to the DVG-2101SP manually. You will need to enter in the IP address, Subnet Mask, Gateway address, and DNS addresses. You should enter the IP address, Subnet Mask, and Gateway address in this page and enter the DNS addresses in the DNS page which is under the **Advanced** tab.

The screenshot shows the D-Link web interface for the DVG-2101SP. At the top, there is a navigation bar with 'Product Page: DVG-2101SP', 'Site Map', and 'Firmware Version: 1.00.378'. Below this is the D-Link logo. The main interface has a sidebar on the left with 'DVG-2101SP' and a 'Wizard' menu containing 'Internet Setup', 'VoIP Setup', 'Time and Date', and 'Logout'. The top navigation tabs are 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'ADVANCED' tab is selected, and the 'WAN' section is highlighted in orange. Below the 'WAN' header, there is a text box explaining the WAN connection type setting. A 'Protocol' dropdown menu is set to 'Static IP'. Below this, the 'STATIC IP' section contains input fields for 'IP Address', 'Subnet Mask', and 'Gateway' (marked as optional). 'Apply' and 'Cancel' buttons are at the bottom. On the right side, there is a 'Helpful Hints...' section with text about configuring the device and a 'More...' link. At the bottom left of the interface, the word 'BROADBAND' is visible.

IP Address
Subnet Mask
Gateway

Input the IP Address you wish to assign to the WAN port.
Input your Subnet Mask. (All devices in the network must have the same subnet mask.)
Input the Gateway IP address, usually the IP address of the Router or Gateway on your network.

PPPoE

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.

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D-Link

DVG-2101SP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Wizard Internet Setup VoIP Setup Time and Date Logout	<div style="background-color: #f4a460; padding: 5px; border: 1px solid #f4a460;"> <h3 style="margin: 0;">WAN</h3> <p style="font-size: small; margin: 0;">The WAN connection type setting allows you to configure this device to establish your broadband Internet connection. Your Internet Service Provider (ISP) should provide the necessary information to you when you subscribe the Internet access service.</p> <p style="text-align: center; margin: 0;">Protocol: PPPoE</p> </div> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <h3 style="margin: 0;">PPPOE</h3> <p>PPPoE User Name : <input style="width: 150px;" type="text"/></p> <p>PPPoE Password : <input style="width: 150px;" type="password"/></p> <p>Check Password : <input style="width: 150px;" type="password"/></p> <p>PPPoE Service Name : <input style="width: 150px;" type="text"/> (Optional)</p> <p>Idle Time Out : 10min</p> <p><input checked="" type="checkbox"/> Auto Reconnect</p> <p>MTU : 1492 (64~1492)</p> <p style="text-align: center; margin-top: 10px;"> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> </p> </div>	<h3 style="margin: 0;">Helpful Hints...</h3> <p style="font-size: x-small; margin: 0;">When configuring the D-Link VoIP device to access the Internet, be sure to choose the correct Connection Type from the list below. If you are unsure of which option to choose, contact your Internet Service Provider (ISP).</p> <p style="font-size: x-small; margin: 0;">If you are having trouble accessing the Internet through the D-Link VoIP device, double check any settings you have entered on this page and verify them with your ISP if needed.</p> <p style="text-align: center; margin-top: 10px;">More...</p>			
BROADBAND					

- PPPoE User Name** Enter the PPPoE user name supplied by your ISP.
- PPPoE Password** Enter the PPPoE password supplied by your ISP.
- Check Password** Retype the password entered in the previous field.
- PPPoE Service Name** Enter the PPPoE Service Name (if supplied by your ISP).
- Idle Time Out** Set the specific period of time, in minutes, to disconnect from the ISP when no traffic is passing through. The setting 0 minute means the VoIP adapter will never disconnect from the ISP.
- Auto Reconnect** Check this checkbox to allow the VoIP Adapter to re-establish the connection if it is terminated by the ISP. However, if the connection is terminated under any other conditions (i.e. by Idle Timeout or manual disconnect), the VoIP Telephone Adapter will not re-establish the connection. This box is checked by default.
- MTU** Enter the MTU (Maximum Transmission Unit) size. MTU is the largest size packet that can be sent by the device. If the network stack of any packet is larger than the MTU value, then the packet will be fragmented before the transmission. During the PPP negotiation, the peer of the PPP connection will indicate its MTU and will accept any value up to that size.

MAC Address Clone

Basically, every Ethernet interface (also called a NIC - Network Interface Card) has a MAC address. If the administrator assigns IP addresses to devices according to the authorized MAC address, or only allows devices with authorized MAC addresses to access network, you may manually enter the MAC address here.

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MAC ADDRESS CLONE

Some cable Internet service providers require that device connected to the cable modem has MAC address of the PC that was originally registered with the cable Internet provider.

MAC ADDRESS SETTINGS

MAC Address Clone

MAC Address:

Apply Cancel

BROADBAND

Helpful Hints...

Some cable Internet service providers require that device connected to the cable modem has MAC address of the PC that was originally registered with the cable Internet provider.

[More...](#)

MAC Address Clone Check this checkbox to enable the MAC Address Clone feature.

MAC Address Enter the MAC address you want to use.

You can find the MAC address of your PC from **Start > Run**. In the run box type cmd and click **OK**.

For Windows 9x/ME, type **winipcfg** at the prompt and press **Enter**. The MAC address is listed as the “Adaptor Address”.

For Windows 2000/XP, type **ipconfig /all** at the prompt and press **Enter**. The MAC address is listed as the “Physical Address”.

Static Routing

You can specify additional information according to the network topology the VoIP Adapter is attached to in order to establish an efficient networking environment.

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STATIC ROUTING LIST

Network Destination	Netmask	Gateway	Enable
			<input type="checkbox"/>

[Add](#)

STATIC ROUTING

Enable

Network Destination: . . .

Netmask: . . .

Gateway: . . .

[Apply](#) [Cancel](#)

Helpful Hints...
You can select what gateway to use, by interface or by specifying a gateway.
[More...](#)

BROADBAND

Click the **Add** button to configure Static Routing settings.

Network Destination Enter in the IP address of the specified network that you want to access using the Static Route.

Netmask Enter in the subnet mask for the specified network.

Gateway Enter in the gateway IP address of the specified network.

VoIP Setup

The VoIP (Voice over Internet Protocol) Adapter can be configured to handle voice communication over the Internet. The screen shown below, along with the SIP account list and phone book pages are used to configure the basic settings to allow you to communicate with the devices that will send and receive telephone calls over the Internet.

SIP Account List

The VoIP Adapter allows you to make calls through the Internet or PSTN. You need to configure the SIP account before you can make a VoIP phone call.

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DVG-2101SP // **SETUP** ADVANCED MAINTENANCE STATUS HELP

Wizard
Internet Setup
VoIP Setup
Time and Date
Logout

SIP ACCOUNT LIST

Phone Port: 1

Enable

Display Name:

User Name:

Authorization Name:

Password:

Proxy Server: :

Backup Proxy Server: :

Outbound Proxy Server: :

Use Domain to Register:

Expire Time: sec

MWI

BROADBAND

Helpful Hints...
The device offers you SIP account that you can use for making calls via Internet or PSTN. You can assign SIP account the relevant phone number for incoming and outgoing calls.
[More...](#)

Display Name

Enter your display name. Every outgoing call will carry this name to the receiver and it should appear on the Caller-ID.

User Name

Enter your SIP account username. The username is the part that comes before the "@" symbol. A username can be letters like in an e-mail address (e.g. account@provider.com) or numbers like a telephone number (e.g. 24680@provider.com).

Authorization Name

Enter the authorization name to authenticate your SIP account. This is usually the same to your SIP account's user name.

Password

Enter the password to authenticate your SIP account.

Proxy/Backup Server

Enter the SIP proxy server's IP address and port number in this field (e.g. 192.168.0.253:5060).

Outbound Proxy

Enter the outbound proxy server IP address and port number in this field (e.g. 192.168.0.1:5060).

Use Domain to Register Required in order for some Australian ITSPs.

Expire Time

Enter the amount of time for the dial tone when the phone has been lifted off the hook. At the end of this time period, if no numbers have been dialed, the device will start playing the busy tone.

MWI

Check the checkbox to activate MWI (Message Waiting Indication) if the SIP server supports this service.

Phone Book

This page allows you to add and edit your frequently used VoIP phone numbers in the phone book. It is also required if you want to make peer-to-peer calls. In peer-to-peer calls, you call another VoIP device directly without going through a SIP server.

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PHONE BOOK LIST

Phone Book: Page 1 ▾

No.	Phone Number	Display Name	SIP URL

Add

PHONE BOOK

Phone Number:

Display Name:

Distinctive Ring: Group0 ▾

SIP URL: @

Apply Cancel

Helpful Hints...

This page allows you to add and edit your frequently used VoIP phone number in the phone book. It is also required if you want to make peer-to-peer calls. In peer-to-peer calls, you call another VoIP device directly without going through a SIP server.

[More...](#)

BROADBAND

Click the **Add** button to edit the phone book.

Phone Number Display Name

Enter the phone number of your contact.

Enter a name to display on telephone set's LCD screen when there is an incoming call from your contact.

Distinctive Ring

Select a distinctive ring type from the drop-down list to classify the incoming calls into different categories such as family, friends, or colleagues.

SIP URL

Enter the SIP URL of your contact. The format of a SIP URL is similar to an e-mail account. The format should be ID@itsp.com.

Time and Date

The VoIP Adapter allows you to maintain the system clock via the Internet. You must first select your time zone from the drop-down list, then select a pre-defined NTP (Network Time Protocol) time server from the drop-down list, or specify the IP address of your preferred NTP time server on the Internet manually.

Synchronizing with a time server ensures the time-based client filtering features and system log entries are based on the correct localised time.

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TIME AND DATE

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

NTP SETTINGS

Automatically synchronize with Internet

First NTP Time Server:

Second NTP Time Server:

TIME CONFIGURATION

Current Device Time: **Fri May 16 12:45:09 2008**

Time Zone:

Enable Daylight Saving

Daylight Saving Offset:

Daylight Saving Dates:

	Month	Week	Day	Time
Start	<input type="text" value="Jan"/>	<input type="text" value="1st"/>	<input type="text" value="Sun"/>	<input type="text" value="12 am"/>
End	<input type="text" value="Jan"/>	<input type="text" value="1st"/>	<input type="text" value="Sun"/>	<input type="text" value="12 am"/>

Helpful Hints...

If you plan on using the scheduling feature of this VoIP TA, then making sure the time is correct is extremely important. Either enter the time manually by clicking the Copy Your Computers Time Settings button, or use the Automatic Time Configuration option to have your VoIP TA synchronize with a time server on the Internet.

[More...](#)

BROADBAND

Automatically Synchronize with Internet

Check this checkbox and then select the preferred time server(s) from the drop-down NTP Time Server list.

Time Zone

Select the time zone where you reside from the drop-down list.

Enable Daylight Saving

Check this checkbox if your location uses daylight saving. Then select the daylight saving offset from the drop-down list.

Daylight Saving Dates

Select the start and end date for daylight saving to take effect from the drop-down list.

Advanced

VoIP Settings

This VoIP section allows you to configure advanced settings for your VoIP connections.

Call Feature

This page allows you to configure advanced features for your SIP account.

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CALL FEATURE

Phone Port: 1

Forward Always:

Forward Busy:

Forward No Answer: Wait: 15 s(1-20)

Warm Line: Wait: 30 s(1-30)

Hot Line:

Do Not Disturb

Call Waiting

Consultation Hold

Conference

Call Back On Busy

PSTN Fail Over Relay

Apply Cancel

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Helpful Hints...
Call Feature Services such as consultation hold, call waiting, call back on busy, ...are generally available from your VoIP service provider.
[More...](#)

Forward Always

Check the checkbox and enter the phone number to forward all incoming calls to, regardless of any other conditions.

Forward Busy

Check the checkbox and enter the phone number to forward all incoming calls to, if the phone port is busy.

Forward No Answer

Check the checkbox and enter the phone number to forward all incoming calls to, if the call is not answered. You must also enter the number (in seconds) that the VoIP Adapter should wait for you to answer an incoming call before it considers the call unanswered.

Warm Line*

Check the checkbox and enter a specific number to be dialed automatically by the VoIP Adapter when the user goes off-hook on the line and does not input any digits after a configurable timeout has elapsed. For example, this feature can be used for emergency or operator dialing if you do not input any dialing information after a certain time.

Hot Line*

Check the checkbox and enter a specific number to be dialed right away automatically by the VoIP Adapter when the user goes off-hook on the line.

-
- Do Not Disturb** Check this checkbox to reject incoming calls as busy or divert incoming calls to a voice mail server when configured to do so.
- Call Waiting** Check the checkbox to receive a second call when a call is already ongoing on the same phone port.
- Consultation Hold** Check the checkbox to let you to place a call on hold, and then call another party to consult privately, and afterward, return to the original call.
- Conference** Check the checkbox to enable making conference calls.
- Call Back On Busy** Check the checkbox to enable call back on busy when the number you dialed is busy.
- PSTN Fail Over Relay** Check the checkbox to enable PSTN fail over relay when the Internet connection is not available.

*You can only activate either Warm Line or Hot Line. If you check both of them, Hot Line's priority is always set to a higher priority than to that of Warm Line.

Examples of Making a Conference Call

Scenario 1:

1. The first person dials the second person and asks the second person to wait.
2. The first person presses Flash then calls the third person (and keeps the second person on hold).
3. The third person answers the call. The first person dials *61 and then presses Flash to start the conference call.

Scenario 2:

1. The first person dials the second person and the second person answers the call.
2. The third person dials the first person (call waiting) and the first person presses Flash to pick up the second call and talk to the third person.
3. The first person dials *61 and then presses Flash to start the conference call.

Note: The availability of conference calls varies depending on your VoIP network. Please check with your ITSP for this service.

SIP Setting

This page allows you to configure the settings related to the SIP service provider. You need to configure your VoIP Adapter to communicate with the devices that will send and receive telephone calls over the Internet. If you are behind a NAT modem or router, you may have to use a STUN server.

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The screenshot shows the 'SIP SETTING' configuration page. It includes a navigation menu on the left with options like VoIP Settings, DNS, Dynamic DNS, QoS, VPN, and Logout. The main content area is titled 'SIP SETTING' and contains the following fields and checkboxes:

- Port**
 - Signaling Port: 5060
 - RTP Start: 40000
 - RTP End: 50000
- NAT Setting**
 - STUN
 - Server Address: larry.gloo.net
 - NAT Keep Alive Time: 60 sec (30 ≤ X ≤ 86400)
 - Rport
- T.38 Fax**
 - T.38 FAX Protocol
- Advanced Feature**
 - P_Assert
 - E.164 ENUM
 - Session Timer: 1800 sec (90 ≤ X)
 - Anonymous Call Rejection
 - DTMF INFO Type For Cisco
 - Prack

Buttons for 'Apply' and 'Cancel' are located at the bottom of the configuration area. A 'Helpful Hints...' sidebar on the right provides additional context for the settings.

Signaling Port

Enter the signaling port to send and receive SIP message for building a session. The default value is 5060 and this must match with the peer Registrar when making VoIP calls.

RTP Start

Specifies the start port for RTP stream. The default value is 40000.

RTP End

Specifies the end port for RTP stream. The default value is 50000.

STUN

Enable or disable STUN server feature.

Server Address

Enter the STUN server IP address if you enabled the STUN server feature.

NAT Keep Alive Time

Check the checkbox and enter the time period for the NAT to keep alive.

Rport

Check this checkbox to use rport. Rport, or symmetric signaling, is critical for operations behind some classifications of NATs. If enabled, the SIP stack will send outbound SIP messages on the same port that it listens on. Unless you are familiar with single SIP port, it is better to use rport.

T.38 Fax Protocol

Check the checkbox if the remote end also supports FAX function.

P_Assert

Check the checkbox to enable P_Assert to hide the client name when sending messages to the SIP proxy server.

E.164 ENUM

Check the checkbox to enable E.164 ENUM (Number Mapping) feature. E.164 is a mechanism to transform an E.164 number into a list of URIs (Uniform Resource Identifiers) so that the IP users and available services can be identified by a public telephone number.

Session Timer

Check the checkbox to enable this function. If there is no response, the connecting call will be closed automatically after the time limit that you set in this field.

**Anonymous Call Rejection
DTMF Info Type**

Check the checkbox to reject the all anonymous calls.

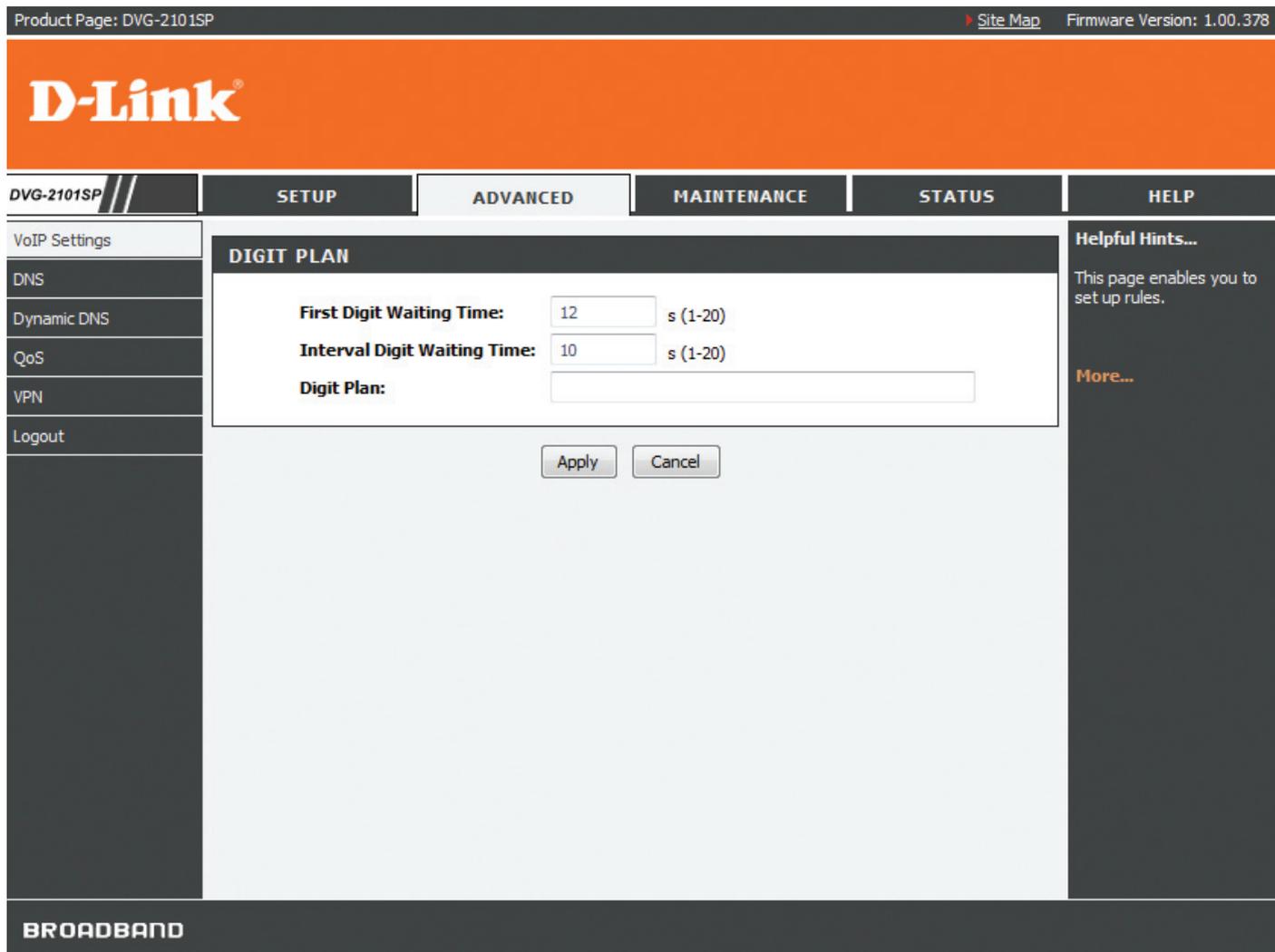
Check this checkbox to use DTMF (Dual Tone Multi-Frequency) to send out the Caller ID.

Prack

Provides reliability of Provisional Responses in the Session Initiation Protocol (SIP)

Digit Plan

This page enables you to set up rules for the digit waiting time and the digit plan. A digit plan is also known as a dial plan. A digit plan is a string of characters that governs the way the VoIP Adapter processes inputs received from the telephone keypad. This includes country codes, access codes, area codes, and all combinations of digits dialed. Digit plans must comply with the telephone networks to which they connect.



First Digit Waiting Time Enter the first digit waiting time before the connection is canceled by the VoIP Adapter.

Interval Digit Waiting Time Enter the interval waiting time between two digits before the connection is canceled by the VoIP Adapter.

Digit Plan Enter the strings for the digit plan.

Digit Plan Syntax

To specify a	Enter the following	Result
Digit	0 1 2 3 4 5 6 7 8 9 *	Identifies a specific digit (do not use #)
Range	[digit-digit]	Identifies any digit dialed that is included in the range
Range	[digit-digit, digit]	Specifies a range as a comma separated list
Wildcard	x	x matches any single digit that is dialed
Wildcard	.	. matches an arbitrary number of digits
Time	T	Indicates that an additional time out period of 4 seconds should take place before automatic dialing starts

For example, let's look at the following digit plan:

<:1780>[2-4]xxxxxx|*xx|<911:17804213333>|011[2-9]x.T|1[2-9]xx[2-9]xxxxxx|1900xxxxxx!

A digit plan is the combination of one or more dialing rules. The above digit plan includes six dialing rules and is separated by five “|” characters. The VoIP Adapter interprets the digit plan (strings) in order from left to right. That is, if you dial a set of numbers that fits to more than one section of the digit plan, the VoIP Adapter will use the first numerical sequence that fits to process your inputs.

Component Description

< >	A pair of < > brackets is used to enclose digit and character for special usage such as add prefix to the following digit(s) or replace the digits you dialed. For example, <:111>*123 means that when you press 123 on the keypad, the VoIP Adapter will send out 111*123. <*123:#911> means when you dial *123, the VoIP Adapter will send out #911.
:	The “:” means replace any digits within the < > brackets before the “:” with the digits written after the “:.” For example: <:1780> means the system prefixes all numbers that match with the remainder of the dial plan string with “1780”. <911:17804213333> means the system will send out the call with 17804213333 whenever you dial 911. If you live in Australia and your VoIP provider resides in North America, you may change this dial plan to <000:011612131444>.
[]	A pair of [] brackets is used to enclose one digit (the digits on telephone keypad *, # and 0-9). For example, [*#2-9] means the digit can be either *, #, 2, 3, 4, 5, 6, 7, 8 or 9. [*1-3579] mean the digit can be either *, 1, 2, 3, 5, 7 or 9.
x	The x represents any digit from 0 to 9. x means one 0-9 digit, xx means two 0-9 digits and xxx means three 0-9 digits, etc. For example, [2-4]xxxxxx means you are allow to dial either 2,3 or 4 followed by any six digits from 0 to 9.
	The “ ” in a digit plan is merely used to separate the different dialing rules.
*	The “*” represents the * (star key) on your telephone keypad. For example, *xx means press * key followed by any two digits from 0-9, such as *69 or *55.
.	The “.” (dot) means repeat the previously listed digit zero or more times. For example, x. means zero or more digits and xx. means at least one or more digits.
T	The “T” represents that an additional timeout period should take place before automatic send out the dialing.
!	The “!” in a digit plan means the digit or number is restricted. For example, 11[0, 2, 4, 9]! means the system will block the numbers 110, 112, 114 and 119. 00886! means that the dial out number beginning with 00886 is restricted. Note that the “!” can only be placed at the end of a dialing rule.

The VoIP Adapter processes call features and the digit plan in the following sequence:



* Including keypad dialing, hotline, warm line, etc.

If you configure the dialing rules or behaviors in the VoIP Adapter as:

Rule 1: in dial prefix settings, set *666 for IVR accessing

Rule 2: in phone book settings, set *666 to map to the URL: abc@domain.com

Rule 3: in the digit map, set *666 to be replaced by 911

Rule 4: in the digit plan, set *666 to be accepted and 911 to be restricted

When there are rules 1 to 4 in the system, pressing *666 will enter the VoIP Adapter's IVR mode.

When there are rules 2 to 4 in the system, pressing *666 will make a VoIP call to abc@domain.com

When rule 3 and rule 4 are in the system, pressing *666 will be replaced with 911 by the VoIP Adapter, but this number will not be sent out.

When there is only rule 4 in the system, pressing *666 will immediately send the dialing to the proxy or UA.

When you dial *666:

Scenario	Rule Combination	The VoIP Adapter will do...
1	Rule1 + Rule2 + Rule3 + Rule4 =	Enter the VoIP Adapter's IVR mode
2	Rule2 + Rule3 + Rule4 =	Address a call to abc@domain.com
3	Rule3 + Rule4 =	Replace the input with 911, but this number will not be sent out
4	Rule4 =	Immediately send the dialing to the proxy or UA

If the dialed numbers or characters do not match to the digit plan, you will probably hear a busy tone from the telephone handset.

Digit Map

This page enables you to set up rules for modifying dialed numbers, or varying the dialing behavior depending on the number called. The digit map specifies how to interpret digit sequences dialed by the user, and how to convert those sequences into an outbound dial string.

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DIGIT MAP LIST

Digit Map:

No.	Prefix	Mode	OP Number	Min Len	Max Len	Interface
<input type="button" value="Add"/>						

DIGIT MAP

Prefix:

Mode:

OP Number:

Min Len:

Max Len:

Interface:

Helpful Hints...
 This page enables you to set up rules for modifying dialed numbers, or varying the dialing behavior depending on the number called.

[More...](#)

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Click the **Add** button to add a digit map.

Prefix The prefix specifies a series of digit sequences. When you dial a series of digits, each sequence in the prefix is tested as a possible match. The matching sequences form a set of candidate digit sequences. The phone number set here is used to add, strip, or replace the OP number.

Mode **None:** No action.

Add: When you choose this mode, the OP number will be added with the prefix number for calling out through the specific phone interface.

Replace: If you select this mode, the OP number will be replaced by the prefix number for calling out through the specific phone interface.

Delete: If you select this mode, the OP number will be deleted by the prefix number for calling out through the specific phone interface.

Restrict: If you select this mode, the OP number will be restricted by the prefix number for calling out through the specific phone interface.

OP Number The front number you type here is the first part of the account number that you want to execute a special function (according to the chosen mode) by using the prefix (number). If you selected the mode "Add", "Replace", or "Delete", the OP number will be applied in this rule.

Min Len Set the minimal length of the dial number for applying the prefix number settings.

Max Len Set the maximum length of the dial number for applying the prefix number settings.
Interface You can apply the prefix number settings to the PHONE port (Phone 1).

Example:

DIGIT MAP LIST							
Digit Map: <input type="text" value="page1"/>							
No.	Prefix	Mode	OP Number	Min Len	Max Len	Interface	
1	03	Add	886	6	8	Phone 1	 
2	06	None		6	8	Phone 1	 
3	9	Replace	0800	6	8	Phone 1	 

- The first rule accepts calls using 03 as the prefix number. For example, if you dial “038993765”, it matches this rule and the VoIP Adapter will make the phone call “886038993765”.
- The second rule accepts calls using 06 as the prefix number. For example, if you dial “065991234”, it matches this rule, and its length (not including the length of the prefix) is 7, between 6 (Min Len) and 8 (Max Len), therefore the VoIP Adapter will make the phone call “065991234”.
- The third rule accepts calls using 9 as the prefix number. For example, if you dial “93652400”, it matches the third rule and the VoIP Adapter will make a phone call “08003652400”.

Dial Prefix

This page allows you to configure your dialing policy. You can change the default dial prefix settings to fit your dialing behaviour.

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DIAL PREFIX SETTING

Dial Prefix

System Reboot: (Default:*444)

Factory Default: (Default:*555)

Net Setting: (Default:*666)

Call Return: (Default:*50)

Repeat Dialing: (Default:*52)

Fail Over Relay: (Default:*54)

PSTN Fail Over Relay Active: (default:*55)

Anonymous Call Rejection Active: (Default:*56)

Anonymous Call Rejection Deactive: (Default:*57)

Caller ID Block: (Default:*62)

Hot Line Active: (Default:*64)

Do Not Disturb Active Code: (Default:*66)

Do Not Disturb Deactive Code: (Default:*68)

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)

Call Back On Busy Cancel: (Default:*61)

Call Back On Busy Auto Enable: (Default:*58)

Call Back On Busy Auto Disable: (Default:*59)

Helpful Hints...

This page allows you to configure your dialing policy.

More...

BROADBAND

Codec

The codec used for each call will be negotiated with the peer party before each session, and therefore many codecs will not be included in your default configuration. The default codec is G.729A, it occupies little bandwidth while maintaining good voice quality.

If your upstream speed is only 64Kbps, using G.711_A codec is not recommended. It is better to have at least 256Kbps upstream if you would like to use G.711_A.

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CODEC SETTING

Priority	Enable	Codec	Packetization Time	DTMF
1	<input checked="" type="checkbox"/>	G729A	20	SIP_Info
2	<input checked="" type="checkbox"/>	G711_MU	20	Inband_Voice
3	<input checked="" type="checkbox"/>	G726_32K	20	SIP_Info
4	<input checked="" type="checkbox"/>	G723_5_3K	30	SIP_Info
5	<input checked="" type="checkbox"/>	G711_A	20	Inband_Voice

Apply Cancel

Helpful Hints...
This page allows you to select Codec preference, Packetization Time and DTMF type from pre-defined drop-down lists. Select one of five codecs as the default for your VoIP calls. The codec used for each will be negotiated with the peer party before each session, and so many will not be your default configuration.

[More...](#)

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Priority

There are five priorities for you to configure the codec priority in the order you preferred. Priority 1 means the first priority and priority 5 means the last.

Codec

Select the codec type from the drop-down list.

Packetization Time

Select the length of the digital voice segment that each packet holds. The default is 20 millisecond packets. Selecting 10 millisecond packets enhances the voice quality, as less information is lost due to packet loss, but doubles the load on the network traffic.

DTMF

Select the method of DTMF tone generation from the drop-down list.

Phone Setting

This page allows you to enable VAD (Voice Activity Detection), CNG (Comfortable Noise Generation), and Echo Cancellation. You can also specify the Receive/Send Gain as well as select the Telephony Tone and Caller ID type. The VoIP Telephone Adapter provides default ring-tone parameters configured for various countries.

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PHONE SETTING

Voice Activity Detection

Comfortable Noise Generation

Echo Cancellation

Receive Gain: (1-61)

Send Gain: (1-61)

Telephony Tone:

Caller ID:

Idle Polarity:

Caller Conn Polarity:

Callee Conn Polarity:

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Helpful Hints...
You can enable or disable VAD,CNG,EC function and set the gain, telephony tone and caller ID in this screen.

[More...](#)

Voice Activity Detection

The VAD (Voice Activity Detection) feature allows the VoIP Adapter to stop transmitting when you are not speaking. This reduces the bandwidth the VoIP Adapter uses.

Comfortable Noise Generation Echo Cancellation

The CNG (Comfortable Noise Generation) feature allows the VoIP Adapter to generate comfortable background noise to indicate that you are still on the line. Enable the Echo Cancellation feature to eliminate the echo caused by the sound of your voice reverberating in the telephone transmitter while you talk.

Receive Gain Send Gain Telephony Tone Caller ID

Enter the receive gain value.

Enter the send gain value.

Select the telephony tone type from the drop-down list according to your region.
Select the caller ID type from the drop-down list according to your region.

DNS

The DNS (Domain Name System) feature allows you to set the configuration of the DNS proxy.

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DNS

DNS server is used for translating a URL to an IP address.

DNS SERVER CONFIGURATION

Obtain DNS server address automatically

Use the following DNS server addresses

Preferred DNS Server : . . . (Optional)

Secondary DNS Server : . . . (Optional)

Helpful Hints...

If Use the following DNS server addresses is selected, enter the Preferred and optional Alternate DNS server IP addresses.

More...

BROADBAND

DNS Server Configuration

Select to obtain DNS server address automatically or specify the DNS server(s) if you are provided DNS information by your ISP.

Primary DNS Address

Enter the primary DNS IP address provided by your ISP.

Secondary DNS Address

Enter the secondary DNS IP address provided by your ISP. This is an optional DNS Address entry to be used if the primary DNS server fails.

Dynamic DNS

The Dynamic DNS service allows you to bind the device's public IP address to a static hostname, allowing your computer to be more easily accessed from various locations on the Internet. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter in your domain name to connect to your server no matter what your IP address is. When this feature is enabled, this device will automatically update your DDNS records whenever your IP address changes.

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DYNAMIC DNS

The DDNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased(www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is.

Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.

DDNS SETTINGS

Enable Dynamic DNS

Server Address: <<

Host Name:

Username or Key:

Password or Key:

Verify Password or Key:

Timeout: (hours)

Status: Disconnect

Helpful Hints...

DDNS - This stands for Dynamic DNS.

Allows you to bind the device's public IP address to a static hostname, users will be able to point to this in order to access a dynamic IP address from anywhere in the world.

More...

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Server Address

Enter your DDNS server's IP address provided by your DDNS service provider. You can also select a pre-defined DDNS service provider from the drop-down list.

Host Name

Enter the host/domain name that you registered with your DDNS service provider.

Username or Key

Enter the username or key for your DDNS account.

Password or Key

Enter the password or key for your DDNS account.

Verify Password or Key

Re-enter the password or key for your DDNS account.

Timeout

Enter the DDNS timeout period in hour(s).

Status

This field shows the DDNS connection status as connected or disconnected.

QoS

This QoS (Quality of Service) feature allows you to classify traffic by its priority and mark it with a Differentiated Services (DiffServ) flag.

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QUALITY OF SERVICE

The bandwidth gap between LAN and WAN may significantly degrade performance of critical network applications, such as VoIP, gaming, and VPN. This QoS function allows users to classify traffic by its priority and mark it with differentiated services (Diffserv) flag.

SETTINGS

QoS 802.1Q VLAN TAG Enable

VLAN ID : (0-4094)

Priority Voice : (0-7)

Priority Data : (0-7)

Helpful Hints...

This QoS function allows you to classify traffic by its priority and make it with differentiated services (DiffServ) flag.

More...

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VLAN ID

Specify the VLAN ID from 0 to 4095.

Priority (Voice/Data)

Indicate the priority of voice and data separately. The higher the value, the higher the priority. If you configure data and voice with the same value, it means they have the same priority.

You can set the voice priority to the highest value 7 in order to ensure the best voice quality.

VPN

A Virtual Private Network (VPN) is the extension of a private network that encompasses links across shared or public networks like the Internet. In short, using VPN technology, you can send data between two computers across a shared or public network in a manner that emulates the properties of a point-to-point private link.

Dialing out Settings

This page allows you to configure the dialing out setting to be IPsec (Internet Protocol Security), PPTP (Point-to-Point Tunneling Protocol), or L2TP (Layer 2 Tunneling Protocol) and its local IP and remote IP(s).

Click the **Add** button to create a profile for the VPN connection.

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ACCOUNT 1

Enable

Account Name:

Type:

User Name:

Password:

Server IP:

Auto Reconnect

Use Remote VPN Gateway As The Default Gateway

Helpful Hints...
The Dialing Out settings has four groups can setup. Setup the tunnel through PPTP/L2TP Server and PPTP/L2TP Client according to different forms.
[More...](#)

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Account Name

Enter an account name for the connection. You can configure up to four accounts for this device.

Type

Select the VPN type to be IPsec, PPTP, or L2TP from the drop-down list.

User Name

Enter the user name for VPN connection.

Password

Enter the password for VPN connection.

Server IP

Enter the server IP for VPN connection and/or check the checkbox to use the remote VPN gateway as the default gateway.

Remote LAN IP

Enter the remote LAN IP for the VPN connection.

Remote LAN Mask

Enter the remote LAN mask for the VPN connection.

Maintenance

System Configuration

These configuration tools help you reboot, backup, restore settings, or reset the VoIP Adapter to its factory default settings.

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Firmware Update
Access Control
Ping Test
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CONFIGURATION TOOLS

Use the "Backup" tool to save the Telephone Adapter's current configuration to a file on your PC. You can then use the "Restore" tool to restore the saved configuration to the Telephone Adapter. Alternatively, you can use the "Restore to Factory Defaults" tool to force the Telephone Adapter to perform a power reset and restore the original factory settings.

SYSTEM -- REBOOT

Click the reboot button to restart the device and let your new settings take effect!

Reboot

SYSTEM -- BACKUP SETTINGS

Backup VoIP TA configurations. You may save your VoIP TA configurations to a file on your PC.

Backup Settings

SYSTEM -- UPDATE SETTINGS

Update VoIP TA settings. You may update your VoIP TA settings using your saved files.

Settings File Name: Browse...

Update Settings

SYSTEM -- RESTORE DEFAULT SETTINGS

Restore VoIP TA settings to the factory defaults.

Restore Default Settings

Helpful Hints...

This page allows you to reboot your VoIP TA or save your VoIP TA configuration to a file on your computer as a precaution in case you have to reset your VoIP TA to factory default settings. You will be able to restore your VoIP TA settings from a previously saved configuration file. There is also a function to allow you to reset your VoIP TA to factory default settings. Resetting your VoIP TA to factory default settings will erase your current configuration.

[More...](#)

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Reboot

This feature allows you to reboot the device while still keeping its current settings.

Backup Settings Update Settings

This feature allows you to save the device's current settings as a file on your PC. This feature allows you to update the device's current configuration with your previously saved files.

Restore Default Settings

This feature allows you to force the device to perform a power reset and restore the original factory default settings.

Auto Provision

This page allows you to automatically update your VoIP Adapter's configuration by using a TFTP, FTP, HTTP, or HTTPS server located on the Internet. If you have to access such services, you will need to know the IP address of the provisioning server.

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DVG-2101SP // **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

System	<h3>AUTO PROVISION</h3> <p>Auto Provision: <input type="radio"/> Only Power Up <input type="radio"/> Interval <input checked="" type="radio"/> Disable</p> <p>Protocol: <input type="text" value="TFTP"/></p> <p>Server: <input type="text"/></p> <p>Port: <input type="text" value="69"/> (Optional)</p> <p>Provision Times: <input type="text" value="0"/></p> <p>Period: <input type="text" value="1"/> Days <input type="text" value="0"/> Hours <input type="text" value="0"/> Minutes</p> <p>File: <input type="text" value="back0.bak"/></p> <p><input type="button" value="Apply"/> <input type="button" value="Cancel"/></p>	<p>Helpful Hints...</p> <p>Provisioning is a function that automatically updates your VoIP device's configuration by using a TFTP, FTP, HTTPS or HTTP server located on the Internet. If you have access to such service, you will need to know the URL or IP address of the Provisioning Server.</p> <p>Note: Fill in the parameters needed by your VoIP Service Provider. Please check with your VoIP Service Provider about the availability of these services.</p> <p>More...</p>
Firmware Update		
Access Control		
Ping Test		
Logout		

BROADBAND

Auto Provision

Protocol

IP

Port

Provision Times

Period

File

Select your provision criteria to be Only Power Up, Interval, or Disable. Indicate the provision protocol supplied by your ISP from the drop-down list.

Enter the IP address supplied by your ISP for the device to provision.

Enter the port number supplied by your ISP for the device to provision. The default port number is 69.

Enter the number of times to provision.

Enter the period to provision if you set your provision criteria as Interval.

Enter the file name supplied by your ISP for the device to provision.

SNMP

SNMP (Simple Network Management Protocol) is a protocol allowing network administrators to obtain information and even configure various network devices remotely. A computer attached to the network is called a Network Management Station (NMS). The access rights to the agent are controlled by community strings. To communicate with the VoIP Adapter, the NMS must first submit a valid community string for authentication. This page allows you to configure basic access control, using passwords called community (strings).

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SNMP

SNMP Version: 1 ▾

Read Community: public

Write Community: private

Trap Receive Server: . . .

Trap Community: public

Apply Cancel

Helpful Hints...

The Simple Network Management Protocol (SNMP) from part of the internet protocol suite ad defined by the Internet Engineering Task Force (IETF). SNMP is used by network management systems to monitor network-attached devices for conditions that warrant administrative attention. It consists of a set of standards for network management, including an Application Layer protocol, a database schema, and a set of date objects.

[More...](#)

BROADBAND

- SNMP Version** Select the SNMP version from the drop-down list. The VoIP Adapter supports both v1 and v2 protocols.
- Read Community** Enter the read community string for authorizing read-only rights. The default string is public.
- Write Community** Enter the write community string for authorizing read-and-write rights. The default string is private.
- Trap Receive Server** Enter the trap receive server's IP address for the traps to be sent to this address when errors or specific events occur on the network.
- Trap Community** Enter the trap community string for authorizing trap management rights.

Log Setting

This page allows you to configure settings to upload logs to a TFTP server and/or download logs to your local drive.

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System

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System

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UPLOAD SETTINGS

Upload Enable

TFTP Server IP:

Update Interval: Days

Max File Size: KB(1KB~200KB)

DOWNLOAD SETTINGS

Log File Type:

Helpful Hints...

Use the Log Settings screen to configure to where the VoIP Device is to upload logs; the schedule for when the VoIP Device is to send the logs and which logs and/or immediate the VoIP device is to send.

More...

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TFTP Server IP
Update Interval
Max File Size
Log File Type

Enter the IP address of a TFTP server.

Enter the update interval in day(s).

Enter the maximum file size that can be accepted.

Select the log file type, either System Log or Network Statistics, from drop-down list to download logs.

Firmware Update

This tool allows you to upgrade this device's firmware locally. This device is also capable of being managed remotely by the service provider.

Note: Please contact your Internet Service Provider prior to upgrading your firmware. The update process takes several minutes to complete, and your VoIP Adapter will reboot. Please DO NOT power off your device before the update is complete.

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DVG-2101SP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
<ul style="list-style-type: none"> System <li style="background-color: #333; color: white;">Firmware Update Access Control Ping Test Logout 	<div style="background-color: #f4a460; padding: 5px; border: 1px solid #333;"> <h3 style="margin: 0;">FIRMWARE UPDATE</h3> <p>This tool allows you to update this device's firmware locally. This device is also capable of being managed remotely, by the service provider.</p> <p>NOTE: Please contact your Internet Service Provider, prior to updating your firmware.</p> <p>Setup 1: Obtain an updated firmware image file from your ISP.</p> <p>Setup 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file.</p> <p>Setup 3: Click the "Update Firmware" button once to upload the new image file.</p> <p>NOTE: The update process takes about several minutes to complete, and your VoIP TA will reboot. Please DO NOT power off the VoIP TA before the update is complete.</p> </div> <div style="background-color: #333; color: white; padding: 5px; border: 1px solid #333;"> <h3 style="margin: 0;">SETTINGS</h3> <p>Correct Firmware Version : 1.00.378</p> <p>Correct Firmware Date : 2008-05-13</p> <p>Firmware File Name : <input style="width: 150px;" type="text"/> <input type="button" value="Browse..."/></p> <p style="text-align: center; margin-top: 10px;"><input type="button" value="Update Firmware"/></p> </div>			<p>Helpful Hints...</p> <p>Please Note: As firmware is often released to correct a specific issue, it is recommended that there is no need to update your firmware if you are not experiencing any technical concerns or difficulties in the operation of your product.</p> <p style="color: #f4a460; margin-top: 10px;">More...</p>	

BROADBAND

Firmware File Name

Enter the path and name, or click the Browse button to locate the upgrade file then click the Update Firmware button. You will be prompted to confirm the upgrade to complete the process.

Access Control

Access to your VoIP Adapter is controlled through two user accounts: admin and user. The username “admin” has unrestricted access to change and view the settings of the VoIP Adapter. The username “user” can access the VoIP Adapter, view configuration settings and statistics, and update the VoIP Adapter’s software. By default, all passwords are intentionally left as blank. You can change the administrator and common user’s passwords respectively in this page. The VoIP Adapter will log you out automatically after the web interface is idle for a period of time. The default idle timeout value is 300 seconds. You can change the time period if necessary.

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<ul style="list-style-type: none"> System Firmware Update <li style="background-color: #f0f0f0;">Access Control Ping Test Logout 	<div style="border: 1px solid black; padding: 5px;"> <p style="margin: 0;">ADMIN PASSWORD</p> <p style="margin: 5px 0;">Current Password : <input style="width: 150px;" type="text"/></p> <p style="margin: 5px 0;">New Password : <input style="width: 150px;" type="text"/></p> <p style="margin: 5px 0;">Confirm Password : <input style="width: 150px;" type="text"/></p> <p style="margin: 5px 0;">Session Time : <input style="width: 50px;" type="text" value="0"/> seconds (60-32767, default:300, 0:never)</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="margin: 0;">USER PASSWORD</p> <p style="margin: 5px 0;">New Password : <input style="width: 150px;" type="text"/></p> <p style="margin: 5px 0;">Confirm Password : <input style="width: 150px;" type="text"/></p> </div> <div style="text-align: center; margin-top: 10px;"> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> </div>	<p>Helpful Hints...</p> <p>For security reasons, it is recommended that you change the Login Name and Password for the Administrator and User accounts. Be sure to write down the new Login Names and Passwords to avoid having to reset the device in the event that they are forgotten.</p> <p style="color: #f4a460; font-weight: bold;">More...</p>
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BROADBAND

Admin Current Password
Admin New Password
Confirm Password
Session Time

Enter the administrator’s current login password.
 Enter a new password for the administrator to login.
 Re-enter the new password for verification.
 Enter the session timeout duration (in seconds). The system will disconnect the access rights of the administrator when the session time is up.

User New Password
Confirm Password

Enter a new password for the user to login.
 Re-enter the new password for verification.

Ping Test

The VoIP Adapter allows you to perform a ping test. This feature helps you to diagnose connection problems. If you can ping an IP on the WAN side successfully, you should be able to access the Internet.

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PING TEST

IP / Domain :

The result of Ping

Helpful Hints...
These tools can be used to verify physical connectivity on both the LAN and WAN interfaces.
[More...](#)

BROADBAND

IP/Domain Enter the IP/Domain you want to ping in the field below and then click the Ping button.

Status

Device Information

You can use the Device Info screen to view the connection status for the VoIP Adapter's WAN/LAN interfaces, current firmware, and other related information.

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- CDR
- VPN Status
- NetWork Statistic
- System Log
- Logout

DEVICE INFORMATION

You can use the Device Information screen to see the connection status for this device's WAN/LAN interfaces, firmware and hardware version numbers, as well as information on all DHCP client PCs currently connected to your network.

SYSTEM INFO

Module Name	DVG-2101SP
Serial Number	S072300105
WAN MAC	00:50:56:C0:00:08
Hardware Version	0.4
Kernel Version	1.00.378

WAN

Ethernet	Connected
WAN IP	192.168.40.119(dhcp)
Subnet Mask	255.255.255.0
Gateway	192.168.40.254
Primary DNS	192.168.0.249
Secondary DNS	192.168.0.243

Helpful Hints...

All of your Internet and network connection details are displayed on the Device Info page. The firmware version is also displayed here.

More...

BROADBAND

VoIP Status

You can use the VoIP Status screen to view the phone port status.

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PHONE PORT STATUS

No.	Display Name	User Name	Proxy	Status	Remote Host	Start	Elapsed
Phone 1		username	0.0.0.0:5060	Idle			

VOIP STATISTICS

Port ID	Send(Packets)	Receive(Packets)	Lost(Packets)
Port1	0	0	0

Helpful Hints...
You can use the VoIP Status screen to see various phone port status.
[More...](#)

BROADBAND

CDR Status

You can use the CDR (Call Detail Record) Status screen to view the call history records of incoming and outgoing calls. It stores up to 100 records.

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DVG-2101SP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
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<p>Device Info</p> <p>VoIP Status</p> <p style="background-color: #eee;">CDR</p> <p>VPN Status</p> <p>NetWork Statistic</p> <p>System Log</p> <p>Logout</p>	<div style="background-color: #333; color: white; padding: 2px;">CDR LIST</div> <p>Port: <input type="text" value="1"/></p> <p style="text-align: center;"> <input type="button" value="First Page"/> <input type="button" value="Last Page"/> <input type="button" value="Previous"/> <input type="button" value="Next"/> </p> <p>Page 1 of 1</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #eee;"> <th>No.</th> <th>Display Name</th> <th>Phone No.</th> <th>Direction</th> <th>Proxy/Remote Host</th> <th>Remote Phone No.</th> <th>Start Time</th> <th>Duration</th> </tr> </thead> <tbody> <tr style="height: 150px;"> <td colspan="8" style="text-align: left;"> </td> </tr> </tbody> </table>	No.	Display Name	Phone No.	Direction	Proxy/Remote Host	Remote Phone No.	Start Time	Duration									<p>Helpful Hints...</p> <p>Call Detail Record feature provides history record of incoming and outgoing calls. It stores up to 100 records.</p> <p style="color: #f4a460; text-align: center;">More...</p>
No.	Display Name	Phone No.	Direction	Proxy/Remote Host	Remote Phone No.	Start Time	Duration											

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VPN Status

You can use the VPN Status screen to view the VPN connection status.

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DVG-2101SP // **SETUP** **ADVANCED** **MAINTENANCE** **STATUS** **HELP**

Device Info	<p>VPN MANAGEMENT</p> <p>The VPN management screen allows you to check the VPN status and to dial or to drop VPN connections.</p> <p>DIAL OUT</p> <table border="1"><thead><tr><th>Name</th><th>Type</th><th>Client IP</th><th>Server IP</th><th>UpTime</th><th>Status</th><th></th></tr></thead><tbody></tbody></table>	Name	Type	Client IP	Server IP	UpTime	Status		Helpful Hints...
Name		Type	Client IP	Server IP	UpTime	Status			
VoIP Status		Helpful Hints...							
CDR		Helpful Hints...							
VPN Status		Helpful Hints...							
NetWork Statistic		Helpful Hints...							
System Log		Helpful Hints...							
Logout		Helpful Hints...							
	Helpful Hints...								

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Network Status

You can use the Network Status screen to view the routing table, VoIP and network statistics to observe the current network conditions.

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NETWORK STATUS

You can use the Network Status screen to see the routing table, and the network statistics report to realize the current network conditions.

ROUTING TABLE

Display the routing information this device uses to choose the interface/gateway when delivering the datagram to a remote network.

Flags	Network Destination	Netmask	Gateway	Interface
U	192.168.1.0	255.255.255.0	0.0.0.0	WAN
U	192.168.40.0	255.255.255.0	0.0.0.0	WAN
UG	0.0.0.0	0.0.0.0	192.168.40.254	WAN

NETWORK STATISTICS

View all active TCP connections and the TCP and UDP ports on which the device is listening.

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Protocol	Message
Ip	6383 total packets received
Ip	0 forwarded
Ip	0 incoming packets discarded
Ip	5896 incoming packets delivered
Ip	6576 requests sent out
Icmp	0 ICMP messages received
Icmp	0 input ICMP message failed.
Icmp	ICMP input histogram:
Icmp	0 ICMP messages sent
Icmp	0 ICMP messages failed

Helpful Hints...

This is a list of the D-Link VoIP device's routing table.

More...

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System Log

You can view all the records of events that have occurred on the VoIP Adapter.



- Device Info
- VoIP Status
- CDR
- VPN Status
- NetWork Statistic
- System Log
- Logout

VIEW LOG

View any attempts that have been made to gain access to your network..

LOG FILES

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Date/Time	Severity	Message
Nov 30 10:00:22	info	Lease of 192.168.40.119 obtained, lease time 86400
Nov 30 10:00:22	debug	Sending select for 192.168.40.119...
Nov 30 10:00:22	debug	Sending discover...
Nov 30 10:00:20	info	udhcp client (v0.9.8) started
May 16 11:58:19	info	root from 192.168.40.99 login success
May 16 11:58:19	info	root from 192.168.40.99 login success
May 16 11:58:10	info	root from 192.168.1.122 logout
May 16 11:58:09	info	root from 192.168.1.122 login success
May 16 11:54:21	info	root from 192.168.1.122 login success
May 16 11:53:30	info	root from 192.168.1.122 login fail

Helpful Hints...

Display the captured log messages of the D-Link VoIP device activities, these captured log messages might be useful for trouble shooting and monitoring.

[More...](#)

Help

Help Menu

This help menu provides some information to help you know more details about the VoIP Adapter. Select the item which you want to view to display the description.

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D-Link®

DVG-2101SP

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

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- Setup
- Advanced
- Maintenance
- Status

HELP MENU

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SETUP HELP

- [Wizard](#)
- Internet Setup
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 - [MAC Address Clone](#)
 - [Static Routing](#)
- VoIP Setup
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 - [Phone Book](#)
- [Time and Date](#)

ADVANCED HELP

- VoIP Settings
 - [Call Feature](#)
 - [SIP Setting](#)
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MAINTENANCE HELP

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 - [SNMP](#)
 - [Log Setting](#)
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- [Access Controls](#)
- [Ping Test](#)

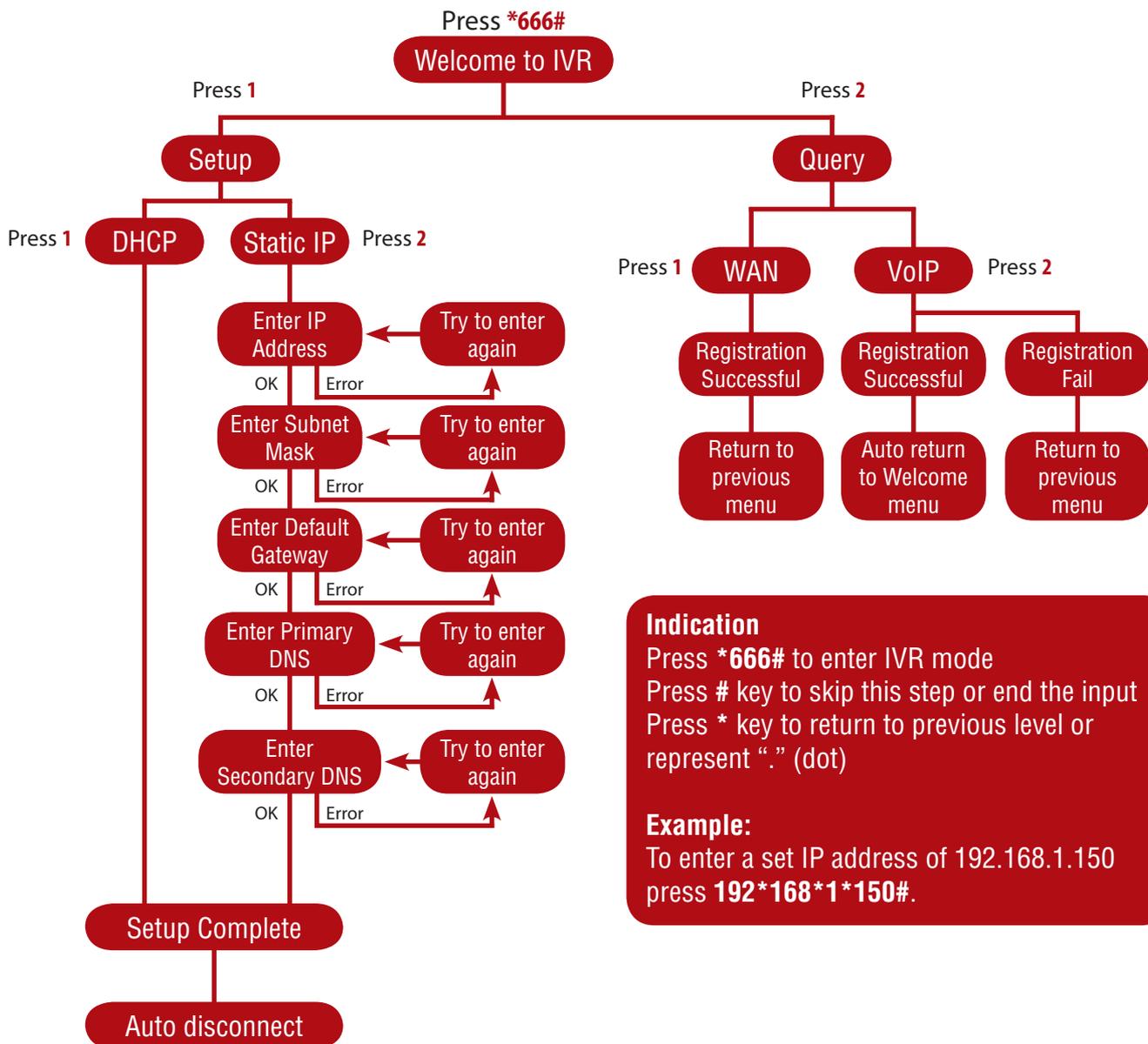
STATUS HELP

- [Device Info](#)
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- [CDR](#)
- [VPN Status](#)
- [Network Status](#)
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BROADBAND

Configuration through IVR

The VoIP Adapter provides a convenient IVR (Interactive Voice Response) function to help you query and configure the basic settings of the VoIP Adapter with a phone and without turning on a PC. To access IVR mode, plug a phone into the VoIP Adapter and then pick up the handset and press * (star) 666 # (pound). You will hear voice instructions through the handset. Follow the system's instructions to set up or query the VoIP Adapter's settings. To exit IVR mode, simply hang up the phone. The IVR function only supports DHCP and Static mode configuration, other connection types need to be done via the web configuration interface. If you pick up the handset and can not hear a tone or press *666# without IVR response, please press the Reset button for 1-2 seconds and try again. Please refer to the Rear Panel diagram on page 5 of this manual for the Reset button location.



Frequently Asked Questions

Q: Why can't I access the web-based configuration utility?

A: When entering the IP address of the VoIP Adapter (192.168.1.150), you are not connecting to a website on the Internet and don't have to be connected to the Internet. The device has the utility built into a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

Make sure you have an updated Java-enabled web browser. We recommend the following:

Internet Explorer 6.0 or higher

Netscape 8 or higher

Mozilla 1.7.12 (5.0) or higher

Opera 8.5 or higher

Safari 1.2 or higher (with Java 1.3.1 or higher)

Camino 0.8.4 or higher

Firefox 1.5 or higher

Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.

Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages.

Configure your Internet settings:

Go to Start > Settings > Control Panel. Double-click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults.

Click the Connection tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click OK.

Go to the Advanced tab and click the button to restore these settings to their defaults. Click OK three times.

Close your web browser (if open) and open it.

Access the web-based utility. Open your web browser and enter the IP address of your DVG-2101SP in the address bar. This should open the login page for the web-based utility.

If you still cannot access the configuration, unplug the power to the VoIP Adapter for 10 seconds and plug it back in. Wait about 1 minute and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

Q: What can I do if I forgot my password?

A: If you forgot your password, you must reset your VoIP Adapter. Unfortunately this process will change all of your settings back to the factory defaults.

To reset the VoIP Adapter, locate the reset button on the rear panel of the unit. With the VoIP Adapter powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the VoIP Adapter will go through its reboot process. Wait about 1 minute to access the VoIP Adapter. The default IP address is 192.168.1.150. When logging in, the username is admin and leave the password box empty.

Q: How can I check if my IP address is correct for logging in?

A: After you install your DVG-2101SP, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server automatically. To verify your IP address, please follow the steps below.

Click on Start > Run. In the run box type cmd and click OK.

At the prompt, type ipconfig and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your Adapter. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.

Q: How can I set my computer to use a static IP address?

A: If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

1. Windows® XP: Click on Start > Control Panel > Network Connections.
Windows® 2000: From the desktop, right-click My Network Places > Properties.
2. Right-click on the Local Area Connection which represents your network adapter and select Properties.
3. Highlight Internet Protocol (TCP/IP) and click Properties.
4. Click Use the following IP address and enter an IP address that is on the same subnet as your network or the LAN IP address on your Adapter.

Example: If the Adapter's LAN IP address is 192.168.1.150, make your IP address 192.168.1.x where x is a number between 1 and 254 but except (192.168.1.1 for example). Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your DVG-2101SP (192.168.1.150).

5. Click OK twice to save your settings.

Q: I get a dial tone, but when I dial any phone number I receive a busy signal.

A: The unit may not have been properly configured with the correct account information in the web-based utility.

1. Access the web-based utility by entering the IP address: 192.168.1.150 in the Address bar.
2. Select the Setup tab and click the SIP Account List submenu.
3. Enter the account information provided by your VoIP service provider, including Display Name, User Name, Authentication Name, Password, Proxy Server (if applicable), Outbound Proxy Server (if applicable), etc.

Q: After setting up the DVG-2101SP, I cannot access the Internet.

A: Make sure that the Ethernet cable from the PC is plugged into the LAN port of broadband modem or router after you finish the configuration of the DVG-2101SP.

Q: Can I use my DVG-2101SP on a MGCP network?

A: No, DVG-2101SP is a SIP device and uses the SIP protocol in handling all of the telephony elements.

Technical Specifications

Call Control Protocols Compliance	SIP2 (RFC3261) SIP1 (RFC2543)
Voice Compression	G.711 a/u-law, G.726, G.729A/B, G.723.1
Analog Voice Ports	Loop-Start FXS interfaces Automatic PSTN fallback when power loss DTMF tone detection/generation V.21/V.25 Modem/Fax tone detection Echo Cancellation: G.168
Ethernet Ports	WAN: 10/100 Auto MDI/MDI-X Ethernet ports IEEE 802.3 10BASE-T Ethernet compliant IEEE 802.3u 100BASE-TX Fast Ethernet compliant
Quality of Service	Voice service is prioritized over the data traffic (When unit is connected directly to the modem)
Network Protocols	Will route all standard protocols DHCP: Dynamic Host Configuration Protocol server and client NAT: Network Address Translation PPPoE: PPP over Ethernet Client
Network Management	Manage functions through a web-based configuration interface
LEDs	Power, Provision, Register, WAN, Phone and Line
Dimensions	3.5" x 3" x 1.875" (W x D x H)
Number of Ports	One Ethernet port (WAN) One Phone port (FXS) One Phone port (PSTN backup)
Power Supply	DC Input: 12VDC/1.5A
Operating Temperature	0 to 50°C
Storage Temperature	-10 to 55°C
Humidity	5% - 95% non-condensing
Safety	C-Tick/CUL
Emission (EMI)	FCC Class B CE Class B

FCC EMI Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Technical Support

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

D-Link Australia
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