QoS Classification

Choose Add or Remove to configure network traffic classes.

Quality	of Ser	vice Set	up														
Choose	noose Add or Remove to configure network traffic classes.																
If you The Qo	rou disable WMM function in Wireless Page, classification related to wireless will not take effects 2 QoS function has been disabled. Classification rules would not take effects.																
	MARK TRAFFIC CLASSIFICATION RULES																
Class Name	DSCP Mark	Queue ID	802.1P Mark	Lan Port	Protocol	DSCP	Source Addr./Mask	Source Port	Dest. Addr./Mask	Dest. Port	Source MAC Addr./Mask	Destination MAC Addr./Mask	802.1P	Order	Enable/Disable	Remove	Edit
								(Add Save/	Apply)						

Section 3 – Configuration

Use this window to create a traffic class rule to classify the upstream traffic, assign a queue that defines the precedence and the interface, and optionally overwrite the IP header DSCP byte. A rule consists of a class name and at least one condition. Please remember that all of the specified conditions on this window must be met for the rule to take effect.

Click the **Save/Apply** button to save and activate this rule.

	Kule			
The screen creates a traffic overwrite the IP header DSC rule must be satisfied for the	class rule to classify the upstream trai P byte. A rule consists of a class nam rule to take effect. Click 'Save/Apph	fic, assign queue which defines he and at least one condition by d' to save and activate the rule	s the pre elow. All	ecedence and the interface and optionally of the specified conditions in this classification
Traffic Class Name:				
Rule Order:	~			
Rule Status:	*			
Assign ATM Priority and/o If non-blank value is selected upstream packet is overwrite	or DSCP Mark for the class for 'Assign Differentiated Services Co en by the selected value.	ode Point (DSCP) Mark', the co	rrecpond	ding DSCP byte in the IP header of the
Assign Classification Queue:			•	*
Assign Differentiated Services	s Code Point (DSCP) Mark:		*	
Mark 802.1p if 802.1q is enab	oled:		~	
Specify Traffic Classification Enter the following condition	on Rules tions either for IP level, SET-1, or	r for IEEE 802.1p, SET-2.		
SET-1				
Physical LAN Port:			*	
Protocol:			*	
Differentiated Services Code	Point (DSCP) Check:		~	
IP Address	*			
Source Subnet Mask:				
UDP/TCP Source Port (port of	or port:port):			
Destination IP Address:				
Destination Subnet Mask:				
UDP/TCP Destination Port (p	ort or port:port):			
Source MAC Address:				(The MAC address format is xx:xx:xx:xx:xx:xx
Source MAC Mask:				
Source MAC Mask: Destination MAC Address:				(The MAC address format is xx:xx:xx:xx:xx:xx:xx
Source MAC Mask: Destination MAC Address: Destination MAC Mask:				(The MAC address format is xx:xx:xx:xx:xx:xx
Source MAC Mask: Destination MAC Address: Destination MAC Mask: SET-2				(The MAC address format is xxxxxxxxxxxxxxxxx

QoS Downstream

Tick **Enable** and enter **Downstream limit** in kbps to classify downstream speed.

Downstream limit S	etting		
Enable:			
Downstream limit:		kbps	
			CourtAnaly
			Save/Apply

Routing

To access the Routing windows, click the Routing button in the Advanced Setup directory.

Default Gateway

If the **Enable Automatic Assigned Default Gateway** checkbox is ticked, the Router will accept the first default gateway assignment received from one of the enabled PPPoA, PPPoE, or MER/DHCP enabled PVC(s). If this checkbox is not ticked, enter the static default gateway and/or a WAN interface. Click the **Save/Apply** button when you are finished.



Static Route

Click the **Add** button on the **Routing – Static Route** window to access the following window displayed on the next page.

	Destination	Subnet Mask	Gateway	Interface	Remove
--	-------------	-------------	---------	-----------	--------

Section 3 – Configuration

Enter the static routing information for an entry to the routing table. Click the **Save/Apply** button when you are finished.

Routing Static Route Add	1
Enter the destination network then click "Save/Apply" to add	address, subnet mask, gateway AND/OR available WAN interface the entry to the routing table.
Destination Network Address: Subnet Mask:	
O Use Gateway IP Address	
 Use Interface 	pppoe_1_1_35_1/ppp_1_1_35_1 💙
	Save/Apply

DNS

To access the **DNS** windows, click the **DNS** button in the **Advanced Setup** directory. The **NAT** button appears when configuring WAN interface in PPPoA, PPPoE, MER or IPoA.

DNS Server

If you have not been given specific DNS server IP addresses or if the Router is not pre-configured with DNS server information, tick the **Enable Automatic Assigned DNS** checkbox. Auto discovery DNS instructs the Router to automatically obtain the DNS IP address from the ISP through DHCP. If your WAN connection uses a Static IP address, auto discovery for DNS cannot be used.

If you have DNS IP addresses provided by your ISP, deselect the **Enable Automatic Assigned DNS** checkbox and enter these IP addresses in the available entry fields for the Primary DNS Server and the Secondary DNS Server. Click the **Save** button when you are finished.

DNS Server Configuration

If 'Enable Automatic Assigned DNS' checkbox is selected, this router will accept the first received DNS assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s) during the connection establishment. If the checkbox is not selected, enter the primary and optional secondary DNS server IP addresses. Click 'Save' button to save the new configuration. You must reboot the router to make the new configuration effective.

Save

Enable Automatic Assigned DNS

Dynamic DNS

The Router supports Dynamic DNS (Dynamic Domain Name Service). The Dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, allowing access to a specified host from various locations on the Internet. This is enabled to allow remote access to a host by clicking a hyperlinked URL in the form hostname.dyndns.org, Many ISPs assign public IP addresses using DHCP, this can make it difficult to locate a specific host on the LAN using standard DNS. If for example you are running a public web server or VPN server on your LAN, this ensures that the host can be located from the Internet if the public IP address changes. DDNS requires that an account be setup with one of the supported DDNS providers.

Click Add to see the Add DDNS Settings section.

Enter the required DDNS information, click the **Save/Apply** button to save the information.



DDNS requires that an account be setup with one of the supported DDNS servers prior to engaging it on the Router. This function will not work without an accepted account with a DDNS server.

Dynamic DNS

The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname in any of the many domains, allowing your DSL router to be more easily accessed from various locations on the Internet.

Choose Add or Remove to configure Dynamic DNS.

Hostname Username Service Interface Remove

Add Remove

Add dynamic DDNS	
	201 - C
This page allows you to add a Dy	namic DNS address from DynDNS.org or TZO.
D-DNS provider	DynDNS.org
Hostname	
Interface	ipoa_1_2_35/ipa_1_2_35 ⊻
DynDNS Settings	
Username	
Password	
	Save/Apply

DSL

To access the DSL Settings window, click the DSL Setup button in the Advanced Setup directory.

This window allows you to select the desired modulation, phone line pair, and capability. Click the **Save/Apply** button when you are finished.

Click the **Advanced Settings** button to select a DSL test mode.

DS	L Settings		
Sel	ect the modulation below.		
	G.Dmt Enabled		
	☑ G.lite Enabled		
	▼ T1.413 Enabled		
	ADSL2 Enabled		
	AnnexL Enabled		
	ADSL2+ Enabled		
	AnnexM Enabled		
Sel	ect the phone line pair below.		
	 Inner pair 		
	O Outer pair		
Cap	pability		
	✓ Bitswap Enable		
	SRA Enable		
		Save/Apply	Advanced Settings

Section 3 – Configuration

Select the desired DSL test mode and then click the **Apply** button.

Click the **Tone Selection** button to modify the upstream and downstream tones.

DSL Advanced Settings	
Select the test mode below.	
 Normal 	
○ Reverb	
○ Medley	
○ No retrain	
O L3	
	(Apply) Tone Selection

<i>C</i> http://192.168.1	.1/adslcfgtone.html	Windows Interne	t Explorer	
🖉 http://192.168.1.1/ac	isicfgtone.html			*
		ADCI Tana Ca		
		ADSL TOne Se	Lungs	
		Upstream To	ones	
	✓3 ✓4 ✓5			3 🗹 14 🔽 15
✓ 16 ✓ 17 ✓ 18	₩19 ₩20 ₩21	✓ 22 ✓ 23 ✓ 2	4 ₩ 25 ₩ 26 ₩ 27 ₩ 28 ₩ 29	9 🗹 30 🗹 31
				7 78 79
	✓ 83 ✓ 84 ✓ 85	86 87 87		3 94 95
96 97 98	99 100 101	✓ 102 ✓ 103 ✓ 1	04 105 106 107 108 10	9 2 110 2 111
▼ 112 ▼ 113 ▼ 11	4 115 116 117		20 121 122 123 124 12	25 126 127
✓ 128 ✓ 129 ✓ 13	0 🗸 131 🗸 132 🗸 133	134 🗸 135 🗸 1	36 🗸 137 🗸 138 🗸 139 🗸 140 🗸 14	1 142 143
✓ 144 ✓ 145 ✓ 14	6 🗹 147 🗹 148 🗹 149	150 🗹 151 🔽 1	52 🗹 153 🗸 154 🖌 155 🖌 156 🗸 15	57 🗹 158 🗹 159
✓ 160 ✓ 161 ✓ 16	2 🗹 163 🗹 164 🔽 165	5 🗹 166 🗹 167 🗹 1	68 🗹 169 🗹 170 🔽 171 🔽 172 🔽 17	73 🗹 174 🗹 175
✓ 176 ✓ 177 ✓ 17	8 🗹 179 🗹 180 🔽 181	✓ 182 ✓ 183 ✓ 1	84 🗹 185 🗹 186 🗹 187 🔽 188 🔽 18	39 🗹 190 🗹 191
✓ 192 ✓ 193 ✓ 19	4 🗹 195 🗹 196 🗹 197	7 🗹 198 🔽 199 🗹 2	00 🗹 201 🗹 202 🔽 203 🔽 204 🔽 20	5 🗹 206 🗹 207
208 209 21	0 🗹 211 🗹 212 🗹 213	214 🗹 215 🗹 2	16 🗹 217 🗹 218 🗹 219 🔽 220 🔽 22	21 🗹 222 🗹 223
224 🗸 225 🗸 22	6 🗹 227 🗹 228 🗹 229	230 🗸 231 🗸 2	32 🗹 233 🗹 234 🔽 235 🔽 236 🔽 23	37 🗹 238 🗹 239
240 241 24	2 🔽 243 🗹 244 🗹 245	246 🗸 247 🗸 2	48 🗹 249 🗹 250 🗹 251 🔽 252 🔽 25	53 🗹 254 🗹 255
	Che	ck All Clear All	Apply Close	
Done			🌍 😜 Internet	🔍 100% 🔹 🔡

Select the appropriate upstream and downstream tones for your ADSL connection. Click the **Apply** button to let your settings take effect.

Port Mapping

To access the Port Mapping window, click the Port Mapping button in the Advanced Setup directory.

Use this window to enable port mapping. Tick $\ensuremath{\textbf{Enable virtual ports on}}$ and enter

If you are setting up the mapping groups, click the **Add** button.

Port Mapping -- A maximum 16 entries can be configured Port Mapping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped interfaces to the Default group. Only the default group has IP interface. Enable virtual ports on eth0 Group Name Enable/Disable Remove Edit Interfaces Enable/Disable **~** eth0 Default **~** Wireless nas 0 0 35 **~** Add Save/Apply

To create a new mapping group, enter **Group Name**, add interfaces to **Grouped Interfaces**.

Click Save/Apply to save the changes.

Port Mapping Configuration

To create a new mapping group:

1. Enter the Group name and select interfaces from the available interface list and add it to the grouped interface list using the arrow buttons to create the required mapping of the ports. The group name must be unique.

2. If you like to automatically add LAN clients to a PVC in the new group add the DHCP vendor ID string. By configuring a DHCP vendor ID string any DHCP client request with the specified vendor ID (DHCP option 60) will be denied an IP address from the local DHCP server.

Note that these clients may obtain public IP addresses

3. Click Save/Apply button to make the changes effective immediately

Note that the selected interfaces will be removed from their existing groups and added to the new group.

IMPORTANT If a vendor ID is configured for a specific client device, please REBOOT the client device attached to the modem to allow it to obtain an appropriate IP address.

Grouped Interfaces	Available Interfaces
->	eth0 nas_0_0_35 Wireless
Automatically Add Clients With the following DHCP Vendor Ds	

PPTP

To access the **PPTP Setting** window, click the **PPTP** button in the **Advanced Setup** directory.

To set up Point-to-Point Tunnel Protocol, tick the Enable check box, enter the appropriate information in the fields offered, and then click the **Save/Apply** button when you are finished.

PPTP Setting				
Set Point to Point Tunne	Protocol (VP	N)		
Enable				
Tunnel Name				
PPTP Server IP Address				
User Name				
Password				
Peer IP Address				
Peer Subnet Mask				
				Save/Apply

Wireless

To access the Wireless window, click the Wireless button in the Advanced Setup directory.

Basic

Wiroloce -- Pacie

This page is to configure basic settings of wireless LAN.

Click **Enable Wireless**, enter a wireless network name (SSID) and select a country to active the wireless LAN. You can also hide the network (Hide Access Point), isolate users (Clients Isolation). Click **Save/Apply** to save the settings.

This page allows you to configure basic features of the wireless LAN interface. You can enable or disable the wireless LAN interface, hide the network from active scans, set the wireless network network as SSID) and restrict the channel set based on country requirements. Click "Apply" to configure the basic wireless options.
Enable Wireless
Hide Access Point
Clents Isolation
Disable WMM Advertise
SSID: DSL-2640U
BSSID: 00:10:18:00:00:01
Country: UNITED STATES
Max Clients: 128
Enable Wireless Guest Network
Guest SSID: Guest
Save/Apply

Security

In order to protect the privacy, you can setup the wireless security. Available Network Authentication methods are *Open*, *Shared*, *802.1X*, *WPA*, *WPA-PSK*, *WPA2*, *WPA2-PSK*, *Mixed WPA2/WPA* and *Mixed WPA2/WPA-PSK*.

Click Save/Apply to save the settings.

Wireless Security	
This page allows you to configur key is required to authenticate t Click "Apply" to configure the wi	e security features of the wireless LAN interface. You can sets the network authentication method, selecting data encryption, specify whether a network this wireless network and specify the encryption strength. reless security options.
Select SSID:	DSL-2640U 💌
Network Authentication:	Open 💌
WEP Encryption:	Disabled 💌
	Save/Apply

MAC Filter

This page can help you to allow or deny certain MAC addresses to pass through or block out.

Click **Add** to see the following page.

Wireless MAC	Filter				
MAC Restrict Mo	de: 💿 Disabl	ed O	Allow	0	Deny
MAC Address	Remove				
Add Remove					

Enter MAC Address and click **Save/Apply** to add the MAC address to MAC filter.

Wireless MAC Filter
Enter the MAC address and click "Apply" to add the MAC address to the wireless MAC address filters.
MAC Address:
Save/Apply

Wireless Bridge

This page allows you to configure bridge features of the wireless LAN. Click **Refresh** to update the remote bridges. Click **Save/Apply** to save the settings.

Wireless -- Bridge

This page allows you to configure functionality. Selecting Acess Poin Disabled in Bridge Restrict which d those bridges selected in Remote Click "Refresh" to update the rem Click "Save/Apply" to configure th	wireless bridge features of the wireless LAN interface. You can select Wireless Bridge (also known as Wireless Distribution System) to disables access poin te nables access point functionality. Wireless bridge functionality will still be available and wireless stations will be able to associate to the AP. Select isables wireless bridge restriction. Any wireless bridge will be granted access. Selecting Enabled or Enabled(Scan) enables wireless bridge restriction. Only Bridges will be granted access. Oue bridges. Walk for few seconds to update, e wireless bridge options.
AP Mode:	Access Point
Bridge Restrict:	Disabled 💌
	Refresh Save/Apply

Advanced

This page allows you to configure advanced wireless LAN interface. Configuring these settings may increase the performance of your router but if you are not familiar with networking devices and protocols, this section should be left at its default settings. Click **Save/Apply** to save the settings.

Wireless -- Advanced

This page allows you to configure advanced features of the wireless LAN interface. You can select a particular channel on which to operate, force the transmission rate to a particular speed, set the fragmentation threshold, set the RTS threshold, set the wakeup interval for clients in power-save mode, set the beacon interval for the access point, set XPress mode and set whether short or long preambles are used.

-				
Band:	2.4GHz 💌			
Channel:	11 👻	Current: 11		
Auto Channel Timer(min)	0			
54g™ Rate:	Auto 🖌			
Multicast Rate:	Auto 💙			
Basic Rate:	Default	~		
Fragmentation Threshold:	2346			
RTS Threshold:	2347			
DTIM Interval:	1			
Beacon Interval:	100			
XPress™ Technology:	Disabled 💌			
54g™ Mode:	54g Auto 🔽			
54g [™] Protection:	Auto 🛩			
Preamble Type:	long 🚩			
Transmit Power:	100% 🔽			
WMM(Wi-Fi Multimedia):	Auto 🗠			
WMM No Acknowledgement:	Disabled 🚩			
WMM APSD:	Enabled 💌			
		Save,	Apply	

Station Info

This page shows the authenticated wireless stations and their status. Click **Refresh** to update the information.

 Wireless -- Authenticated Stations

 This page shows authenticated wireless stations and their status.

 MAC
 Associated
 Authorized
 SSID
 Interface

 Refresh

Diagnostics

To access the **Diagnostics** window, click the **Diagnostics** button in the **Diagnostics** directory.

This window is used to test connectivity of the Router.



Management

The Management directory features an array of options designed to help you get the most out of your Router.

Settings

To access the Settings - Backup window, click the Settings button in the Management directory.

Settings – Backup

This window allows you to backup your DSL Router configurations.

Click the **Backup Settings** button to save your Router configurations to a file on your computer.

🖉 DSL Router - Windows	s Internet Explorer
😋 🕞 👻 🙋 http://192	2.168.1.1/
😭 🏘 🏈 DSL Router	
D-Link	
Device Info Advanced Setup Wireless Diagnostics Management Settings System Log SIMP Agent Access Control Update Software	Settings - Backup Backup DSL router configurations. You may save your router configurations to a file on your PC. Backup Settings

Settings – BAckup Click Backup Settings to save a backup file on the PC.

ettings - Backup
ackup DSL router configurations. You may save your router configurations to a file on your PC.
Backup Settings

Click **Browse** to select a file and click the **Update Settings** button to update the Router settings.

ata DCL soutar sattings. You may undate your router sattings using your	
ace DSL router settings. You may update your router settings using your	saved files.
tings File Path: Browse	
	Update Settings

Settings – Restore Default

Click the **Restore Default Settings** button to reset your Router back to the factory default settings including IP settings (192.168.1.1) and Administrator password (admin).

Tools Restore Default Settings	
Restore DSL router settings to the factory defaults.	
	Postara Dofault Cattinga

System Log

These windows allow you to view the System Log and configure the System Log options. To access the **System Log** window, click the **System Log** button in the **Management** directory.

System Log

Click the **View System Log** button to view the System Log.

Click the **Configure System Log** button to configure the System Log options.

The System Log dialog allows you to view the System Log and configure the System Log options.
Click "View System Log" to view the System Log.
Click "Configure System Log" to configure the System Log options.
View System Log Configure System Log

Click on the **Refresh** button to refresh the system log settings.



System Log – Configuration

The system log displays chronological event log data. The event log can be read from local host or sent to a System Log server. The available event severity levels are: **Emergency**, **Alert**, **Critical**, **Error**, **Warning**, **Notice**, **Informational**, and **Debugging**.

This window allows you to log selected events. When you are finished, click the **Save/Apply** button.

System Log Conf	figuration
If the log mode is ena logged events above remote syslog server.	abled, the system will begin to log all the selected events. For the Log Level, al events above or equal to the selected level will be logged. For the Display Level, all or equal to the selected level will be displayed. If the selected mode is 'Remote' or 'Both,' events will be sent to the specified IP address and UDP port of the If the selected mode is 'Local' or 'Both,' events will be recorded in the local memory.
Select the desired va	lues and click 'Save/Apply' to configure the system log options.
Log: O Dis	able 🛇 Enable
Log Level:	Error
Display Level:	Error 💙
Mode:	Local 👻
	Save/Apply

SNMP Agent

To access the SNMP - Configuration window, click the SNMP Agent button in the Management directory.

Simple Network Management Protocol allows a management application to retrieve statistics and status from the SNMP agent in the Router. When you are finished, click the **Save/Apply** button.

SNMP - Configurati	on		
Simple Network Mana	gement Protocol (SNMP)	allows a management application to retrieve statistics and status from the SNMP agent in this device	
Select the desired va	he desired values and click "Apply" to configure the SNMP options.		
SNMP Agent ODis	able 💿 Enable		
Read Community:	public]	
Set Community:	private		
System Name:	DSL-2640U		
System Location:	D-Link		
System Contact:	ADSL		
Tran Manager ID.	0.0.0.0		

Internet Time

To access the **Time settings** window, click the **Internet Time** button in the **Management** directory.

This window allows you to set the Router's time configuration. When you are finished, click the **Save/Apply** button.



Access Control

To access the Access Control windows, click the Access Control button in the Management directory.

Access Control – Services

Enable or disable the desired LAN services. When you are finished, click the **Save/Apply** button.



Access Control – IP Address

This window allows you to enable or disable Access Control Mode. To add an IP address management station, click the **Add** button.

Access Control IP Address
The IP Address Access Control filters IP address from WAN. If enabled, permits access to local management services from IP addresses contained in the Access Control List. If the Access Control mode is disabled, the system will not validate IP addresses for incoming packets. The services are the system applications listed in the Service Control List.
Access Control Mode: Disable Enable
IP Address Remove
(Add) [Remove]

Enter the IP address of the management station permitted to access the local management services. When you are finished, click the **Save/Apply** button.

Access Control	
Enter the IP address of the management station permitted to access the local mana	gement services, and click 'Save/Apply.'
IP Address:	
	Save/Apply

Access Control – Passwords

This window allows you to change the password on the Router. When you are finished, click the **Save/Apply** button.

Access Control	Passwords				
Access to your DSL	Access to your DSL router is controlled through three user accounts: admin, support, and user.				
The user name "adr	min" has unrestricted access to change and view configuration of your DSL Router.				
The user name "sup	port" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.				
The user name "use	r" can access the DSL Router, view configuration settings and statistics, as well as, update the router's software.				
Use the fields below to enter up to 16 characters and click "Apply" to change or create passwords. Note: Password cannot contain a space.					
Username:	v				
Old Password:					
New Password:					
Confirm Password:					
(Note: The length (of password can not be greater than 16.)				
	Save/Apply				

Update Software

To access the Tools - Update Software window, click the Update Software button in the Management directory.

This window allows you to update the Router's software.

Tools Update Software
Step 1: Obtain an updated software image file from your ISP.
Step 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file
Step 3: Click the "Update Software" button once to upload the new image file.
NOTE: The update process takes about 2 minutes to complete, and your DSL Router will reboot.
Software File Path: Browse
Update Software

Save/Reboot

To access this window, click the **Save/Reboot** button in the **Management** directory.

To save your settings and reboot the system, click the **Save/Reboot** button.

Click the button below to save and reboot the router.
Save/Reboot

Troubleshooting

This chapter provides solutions to problems that might occur during the installation and operation of the DSL-2642B. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

1. How do I configure my DSL-2642B Router without the CD-ROM?

- Connect your PC to the Router using an Ethernet cable.
- Open a web browser and enter the address http://192.168.1.1
- The default username is 'admin' and the default password is 'admin'.
- If you have changed the password and cannot remember it, you will need to reset the Router to the factory default setting (see question 2), which will set the password back to 'admin'.

Note: Please refer to the next section "Networking Basics" to check your PC's IP configuration if you can't see the login windows.

2. How do I reset my Router to the factory default settings?

- Ensure the Router is powered on.
- Press and hold the reset button on the back of the device for approximately 5 to 8 seconds.
- This process should take around 30~60 seconds.
- *Note:* Resetting the Router to the factory default settings will erase the current configuration settings. To reconfigure your settings, login to the Router as outlined in question 1, then run the Quick Setup wizard.

3. What can I do if my Router is not working correctly?

There are a few quick steps you can take to try and resolve any issues:

- Follow the directions in Question 2 to reset the Router.
- Check that all the cables are firmly connected at both ends.
- Check the LEDs on the front of the Router. The Power indicator should be on, the Status indicator should flash, and the DSL and LAN indicators should be on as well.

Appendix A - Troubleshooting

• Please ensure that the settings in the Web-based configuration manager, e.g. ISP username and password, are the same as the settings that have been provided by your ISP.

4. Why can't I get an Internet connection?

For ADSL ISP users, please contact your ISP to make sure the service has been enabled/connected by your ISP and that your ISP username and password are correct.

5. What can I do if my router can't be detected by running installation CD?

- Ensure the Router is powered on.
- Check that all the cables are firmly connected at both ends and all LEDs work correctly.
- Ensure only one network interface card on your PC is activated.
- Click on Start > Control Panel > Security Center to disable the setting of Firewall.

Control Panel						_		-	JL
e <u>E</u> dit <u>V</u> iew Favorites	Tools	Help							
🕽 Back - 🍙 - 🏟	O Se	arch 🔀 Fol	ders 🛄 •						
	-	1							
dress Prontrol Panel			-		-		- 20	×	7
	0	G.	3	0			-9		
Lontrol Panel	0	Accessibility	Add Hardware	Add or	Administrative	Automatic	Date and Time	Display	
Switch to Category View	r.	Options		Remov	Tools	Updates			
		(J)		500p			1 Alexandre	50)	
See Also	*	Eolder Ontions	Eante	Garoa	Total(R)	Toternet	Kauboard	Mouro	
🌯 Windows Update		rolder opdoris	Tones	Controllers	Extre	Options	Keyboard	Modse	
🕐 Help and Support			-	the second	e 💼	52			
		S	<u> 1</u>		-	-	2		
		Network Connections	Network Setup Wizard	Phone and Modem	Power Options	Printers and Eaxes	Regional and Language	Scanners and Cameras	
		-0							
		2	7		O)	25			
		Scheduled	Security	SoundMAX	Sounds and	Speech	System	Taskbar and	
		Tasks	Center		Audio Devices			Start Menu	
				()))					
		User Accounts	Windows	Wireless					
			Firewall	Network Set					



Note: There might be a potential security issue if you disable the setting of Firewall on your PC. Please remember to turn it back on once you have finished the whole installation procedure and can surf on Internet without any problem.

Networking Basics

Check Your IP Address

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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

C:\WINDOWS\system32\cmd.exe	- 🗆 🗙
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	
C:\Documents and Settings>ipconfig	
Windows IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix .: dlink IP Address	
C:\Documents and Settings>_	
	-

Statically Assign An IP Address

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

Step 1

Windows[®] XP - Click on Start > Control Panel > Network Connections. Windows[®] 2000 - From the desktop, right-click on the My Network Places > Properties.

Step 2

Right-click on the Local Area Connection which represents your D-Link network adapter and select Properties.

Step 3

Highlight Internet Protocol (TCP/IP) and click on the Properties.

Step 4

Click on the **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 router.

Example: If the router's LAN IP address is 192.168.1.1, make your IP address 192.168.1.X where X is a number between 2 and 99. 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 router (192.168.1.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.1.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

Click on the **OK** twice to save your settings.

'ou can get IP settings assigned his capability. Otherwise, you ne he appropriate IP settings.	automatically if your network supports ed to ask your network administrator fo
Obtain an IP address autor	atically
Use the following IP addres	s:
IP address:	192.168.1.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
O Obtain DNS server address	automatically
Use the following DNS serv	er addresses:
Preferred DNS server:	192.168.1.1
Alternate DNS server:	
	Advanced

Technical Specifications

ADSL Standards

- ANSI T1.413 Issue 2
- ITU G.992.1 (G.dmt) AnnexA
- ITU G.992.2 (G.lite) Annex A
- ITU G.994.1 (G.hs)

ADSL2 Standards

- ITU G.992.3 (G.dmt.bis) Annex A
- ITU G.992.4 (G.lite.bis) Annex A

ADSL2+ Standards

• ITU G.992.5 Annex A/M

Protocols

- IEEE 802.1d Spanning Tree
- TCP/UDP
- ARP
- RARP
- ICMP
- RFC1058 RIP v1
- RFC1213 SNMP v1 & v2c
- RFC1334 PAP
- RFC1389 RIP v2
- RFC1577 Classical IP over ATM

- RFC1483/2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5 (AAL5)
- RFC1661 Point to Point
 Protocol
- RFC1994 CHAP
- RFC2131 DHCP Client / DHCP Server
- RFC2364 PPP over ATM
- RFC2516 PPP over Ethernet

Data Transfer Rate

- G.dmt full rate downstream: up to 8 Mbps / upstream: up to 1 Mbps
- G.lite: ADSL downstream up to 1.5 Mbps / upstream up to 512
 Kbps
- G.dmt.bis full rate downstream: up to 12 Mbps / upstream: up to 1 Mbps
- ADSL full rate downstream: up to 24 Mbps / upstream: up to 1 Mbps

Media Interface

- ADSL interface: RJ-11 connector for connection to 24/26 AWG twisted pair telephone line
- LAN interface: RJ-45 port for 10/100BASE-T Ethernet connection





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0. Key Component

Item	Key Component	Description
0.1	Network Processor and ADSL Chipset	DSP: BCM6348S
		ADSL Line driver: BCM6301
0.2	WLAN Chipset	BCM4318
0.3	Switch Controller	BCM5325E
0.4	Memory	4MB Flash
		16MB SDRAM

1. Hardware Specification

Item	Product Feature	Description	
1.1	Network Interface		
1.1.1	One ADSL port	RJ-11, inner pair (pin 2,3)	
1.1.2	Standard Compliance	ADSL Standards: ANSI T1.413 Issue 2 ITU G.992.1 (G.dmt) AnnexA ITU G.992.2 (G.lite) Annex A ITUG G94.1 (G.bs) ADSL2 Standards:	
		RE-ADSL2 (Reach Extended ADSL2) Annex L	
		ADSL2+ Standards: ITU G.992.5 Annex A/M Physical Laver Management for Digital Subscriber Line (DSL) Transceivers.	
1.1.3	Line Rate	Downstream: up to 24Mbps	
		Upstream : up to 1Mbps	
1.1.4	Performance	Pass DSL Forum TR-067 Performance Criteria	
1.2	LAN/Host Interface		
1.2.1	Four Fast Ethernet ports	RJ-45, 10/100Mbps, MDI/MDIX Auto-sesnsing	
1.2.2	Standard Compliance	IEEE802.3, IEEEE802.3u	
1.3	Wireless Access Point Embedded		
1.3.1	Standard Compliance	IEEE 802.11	
		IEEE 802.11b	
		IEEE 802.11g	
1.3.2	Radio and Modulation Type	PSK/CCK, DQPSK, DBPSK, OFDM	
1.3.3	Operating Frequency	2400 ~ 2497MHz ISM band	
1.3.4	Channel Numbers	13 channels for European Countries	
1.3.5	Data Rate	IEEE 802.11b: 11, 5.5, 2, and 1Mbps	
		IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps	
1.3.6	RF Output Power	20dBm maximum	
1.3.7	Media Access Protocol	CSMA/CA with ACK	
1.3.8	Form Factor and Interface	Radio on board	
1.3.9	Antenna type	Detachable Antenna	
1.3.10	Diversity	Hardware support diversity- Transmit and Receive	
1.3.11	Power Consumption	Average < 20mW	
1.4	Antenna Type	Detachable	

2. Default Configuration

Item	Product Feature	Description
2.1	IP Address/Mask	192.168.1.1/255.255.255.0
2.2	VPI/VCI	8/35
2.3	ADSL Mode	Multi-mode
2.4	Connection Mode	PPPoE LLC
2.5	User Name/Password	admin/admin

3. Safety/EMC Requirement

Item	Product Feature	Description
3.1	Safety Requirement	To be certified
3.1.1	CSA International Mark	Including CSA950, UL1950, IEC60950, EN60950
3.2	EMC Specification	To be certified
3.2.1	FCC part15 class B	
3.2.2	CE Class B	
3.3	PTT Test	To be certified
3.3.1	FCC part68	
3.4	Wireless Certification	
3.4.1	Wi-Fi certified	
3.4.2	FCC part15 Subpart C	
3.4.3	CE EN 300 328	
3.5	Environmental Requirement	
3.5.1	Operating Temperature	0 °C to 40 °C
3.5.2	Storage Temperature	-20 °C to 70 °C
3.5.3	Operating Humidity Range	5% to 95% Non-condensing

FCC Notices

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.

CAUTION: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 or more 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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance."