#### Using the Configuration Menu (continued) Advanced > Performance > 802.11g (continued)

- **CTS Mode-**CTS (Clear To Send) is a function used to minimize collisions among wireless devices on a wireless local area network (LAN). CTS will make sure the wireless network is clear before a wireless client attempts to send wireless data. Enabling CTS will add overhead and may lower wireless throughput.
  - None-CTS is typically used in a pure 802.11g environment. If CTS is set to "None" in a mixed mode environment populated by 802.11b clients, wireless collisions may occur frequently.
    - Always- CTS will always be used to make sure the wireless LAN is clear before sending data.
    - CTS will monitor the wireless network and automati-Autocally decide whether to implement CTS based on the amount of traffic and collisions that occurs on the wireless network

802.11g only mode- Select this mode to restrict your network to only those devices that employ the 802.11g standard. Enabling this mode will ensure that you maintain the highest connectivity rate, unhampered by any connection to an 802.11b device.

#### Administrator Login Name-

user (lower case) is the default login name for the user ac-

#### User Login Name-

admin (lower case) is the default login name for the admin account. The admin account has read/write access to the router.

#### Admin Password-

User Password-

#### Tools> Admin



The default setting is blank - no password. To change the password, enter and confirm the new password.

The **default** setting is blank - no password. To change the password, enter and confirm the new password. 31

#### Tools> Admin (continued)

#### **Remote Management**

Remote Management allows the DI-774 to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform "Administrator" tasks. This feature enables you to perform "Administrator" tasks from the remote (Internet) host.

**IP Address:** Internet IP Address of the computer that has access to the Router. It is not recommended that you set the IP Address to \* (star), because this allows any Internet IP Address to access the Router, which could result in a loss of security for your network. If you elect to enable **Remote Management**, make sure to enter the IP Address of the remote computer allowed to configure the DI-774.

**Port:** For security purposes, select a separate port number used to access the Router. (*The following is an example only; you may use a different port number.*)

**Example:** <u>http://x.x.x.x8080</u> where x.x.x.x is the WAN IP Address of the Router and 8080 is the port used for the Web-Management interface.

Tools > Tim D-Link Building Networks for People	e	A Tri-M	ir Xpa	ert 802.11 And Wireless Ro	B
DI-774	Home	Advanced	Tools	Status	Help
Admin Time System Firmware Misc.	Time Set the DI-774 sys Local Time Time Zone Default NTP Server Set the Time Daylight Saving	tem time. Apr/01/2002 00:1 (GMT-08:00) Pa / Year 2002 V Hour 00 V Min © Enabled @ Start Jan V (	7:53 cific Time (US & ( optional) lonth Apr v Da ute 17 v Secon Disabled 1 v End Jan	Canada) y 01 v d 53 v SetTim v 01 v Apply (	e Sancel Help

#### Time settings-

Default NTP ServerIn this window you can choose the **time zone**; **set the time**; and **enable** or **disable** *Daylight Savings Time*.

NTP is short for *Network Time Protocol.* NTP synchronizes computer clock times in a network of computers. This field is optional.

Tools > System					
D-Link Building Networks for People		A Tri-M	ode Dualba	ert No Wireless Ro	B
Admin Time System	Home System Setting Save Settings T Save Load Settings F	Advanced JS o Local Hard Drive rom Local Hard Drive Browse	<b>Tools</b>	Status	Help
Firmware Misc.	Restore To Fact Restore	tory Default Settings			C) Help

#### **System Settings**

Save Settings to Local Hard Drive- Click Save to save the current settings to the local Hard Drive

Local Hard Drive- Click Browse to find the settings, then click Load

 Restore to Factory

 Default Settings Click Restore to restore the factory default settings



# Firmware<br/>Upgrade-Click on the link in this screen to find out if there is an updated<br/>firmware; if so, download the new firmware to your hard drive.Browse-After you have downloaded the new firmware, click Browse in<br/>this window to locate the firmware update on your hard drive.<br/>Click Apply to complete the firmware upgrade.

Le	A Tri-M	ode Dualba	ert A	Bouter
Home	Advanced	Tools	Status	Help
Ping Test Ping Test is use	d to send "Ping" pac	kets to test if a c	computer is on the In	ternet.
Host Name or IF address			Ping	
Restart Device Reboots the DI-	74.			
Reboot				
Block WAN Pin When you "Bloc to not respond to method used by	g k WAN Ping", you a p ping commands. P hackers to test whe	e causing the pu nging public WA her your WAN IF	iblic WAN IP addres N IP addresses is a 9 address is valid.	s on the DI-77 common
Discard PING fr	om WAN side 🔘 Er	abled 💿 Disab	led	
UPNP Settings	Enabled	O Disabled		
Gaming Mode	Enabled	O Disabled		
VPN Pass-Thro Allows VPN con	ugh nections to work thro	ugh the DI-774.		
PPTP	Enabled	O Disabled		
IPSec	Enabled	O Disabled		
Dynamic DNS				
DDNS	Enabled	<ul> <li>Disabled</li> </ul>		
Server Address				
Host Name				
Usemame				
Password				

DDNS-Dynamic Domain Name System is a method to keep domain names linked to changing IP Addresses. In this way, changing IP Addresses (e.g., via DHCP) will not interfere with network connectivity.

Ping Test-	The Ping Test is used to send Ping packets to test if a comp is on the Internet. Enter the IP Address that you wish to and click <b>Ping</b>	puter Ping,
<b>Restart Device-</b>	Click Reboot to restart the DI-774	
Block WAN Ping-	If you choose to block WAN Ping, the WAN IP Address of th 774 will not respond to pings. Blocking the Ping may pro- some extra security from hackers.	ie DI- ovide
from WAN side-	Click Enabled to block the WAN ping	
VPN		
Pass Through-	The DI-774 supports VPN (Virtual Private Network) pass-thr for both PPTP (Point-to-Point Tunneling Protocol) and If (IP Security). Once VPN pass-through is enabled, there need to open up virtual services. Multiple VPN connections be made through the DI-774. This is useful when you have r VPN clients on the LAN network.	ough PSec is no s can many
	PPTP- select Enabled or Disabled	
	IPSec- select Enabled or Disabled	
DDNS-	Fill in the required fields to use the Dynamic Domain Name vice (DDNS) feature.	Ser- 35

-Link	Air Xpert AB Tri-Mode Dualband Wireless Router				B
74	Home	Advanced	Tools	Status	Help
	Device Informatio	20	10010		Theip
		Firmware Versio	n: 0.01 , Tue, 1	18 Mar 2003	
Device Info	LAN				
	MAC Address	EUU-11-22-33-44-00			
Log	IP Address	192.168.0.1			
209	Subnet Masi	\$ 255.255.255.0			
	DHCP Server	r Enabled			
Stats	197410				
	MAC Address	00.11.22.33.44.56			
Wireless		DHCP Client Disc	onnected		
	Connection	DHCP Release	se DHCP	Renew	
	IP Address	0.0.0.0			
	Subnet Mask	0.0.0.0			
	Default Gateway	0.0.0.0			
	DNS				
	Wireless 802.11g				
	MAC Address	00-03-2F-12-34-56			
	SSIC	default			
	Channe	1			
	WEF	Disabled			
	11/ 1 000 11				
	MAC Address	00.80.08.24.24.F	1		
	SSI	defer@			
	Channe	62 Turke Meder	Disabled		
	Channe	52 Turbe mode:	DISADIAG		
	WEF	Disabled			
					•

Device Information- This screen displays information about the DI-774



#### View Log-Log Settings-

This screen displays the activity on the DI-774

For advanced features, click on Log Settings

#### Status > Log

#### Status > Log > Log Settings

Home	Advanced Tools	Status Help
Log settings Logs can be saved	by sending it to an admin email a	ddress.
SMTP Server / IP A	Address	
Email Address		Send Mail Now
Log Type	🗹 System Activity	
	🔲 Debug Information	
	Mattacks	
	Dropped Packets	
	Votice	
		🤍 🥴 🤇
		Apply Cancel He

SMTP Server/ IP Address-	Enter the proper SMTP Server information or the IP Address
Email Address-	Enter the email address of the recipient who will receive the email logs.
Log Type-	The administrator can specify which surveillance they want to log. Check mark the box for specific activities.



#### **Traffic Statistics-**

Displays the receive and transmit packets that are passing through the DI-774. Click on **Refresh**, for the most recent information. Click **Reset** to reset the counters back to zero.

#### Status > Wireless

Advanced	Tools	Status	He	elp
ess Client List t table below displa	ys Wireless clients	Connected to	the AP	C
	MAC Address	F	Mode	
24 06	00-40-05-B7-56-8 00-90-4B-B0-FD-(	F 34	2.4 GHz 2.4 GHz	
	Advanced ass Client List I table below displa 24 06	Advanced Tools ess Client List t table below displays Wireless clients MAC Address 24 00-40-05-87-65-8 06 00-90-4B-80-FD-4	Advanced         Tools         Status           ass Client List         table below displays Wireless clients Connected to           MAC Address         24         00-40-05-87-56-8F           D6         00-90-4B-B0-FD-84         06	Advanced         Tools         Status         He           ass Client List         ttable below displays Wireless clients Connected to the AP           MAC Address         Mode           24         00-40-05-67-66-8F         2.4 GHz           06         00-90-4B-B0-FD-84         2.4 GHz

Connected Wireless Client List-

Displays the wireless clients that are connected to the Access Point function of the DI-774.

#### Help

D-Link Building Networks for People		Ai Tri-Ma	<b>r X p</b> ode Dualbar	ert 802.11 Ad Wireless Ro	B
DI-114	Home	Advanced	Tools	Status	Help
Menu	Home • Setup W • Wireless • WAN So • LAN Se • DHCP S	<u>Vizard</u> s Settings ettings ttings Server			
	Advanced • Virtual S • Special • Filters • Firewall • DMZ • Wireless	<u>Server</u> <u>Applications</u> <u>Rules</u> s Performance			
	Tools <ul> <li><u>Adminis</u></li> <li><u>System</u></li> <li><u>System</u></li> <li><u>Firmwar</u></li> <li><u>Miscellar</u></li> </ul>	strator Settings <u>Time</u> Settings re Upgrade aneous Items			
	Status • Device   • Log • Traffic S • Connec	Information Statistics ted Wireless Clier	<u>t List</u>		
	FAQs				

#### Help-

Displays the complete **Help** menu. For help at anytime, click the **Help** tab in the Configuration menu.

#### Using the Network Setup Wizard in Windows XP

In this section you will learn how to establish a network at home or work, using **Microsoft Windows XP.** 

Note: Please refer to websites such as <u>http://www.homenethelp.com</u> and <u>http://www.microsoft.com/windows2000</u> for information about networking computers using Windows 2000, ME or 98.

Go to Start>Control Panel>Network Connections Select Set up a home or small office network



When this screen appears, Click Next.

Please follow all the instructions in this window:



#### Click Next

In the following window, select the best description of your computer. If your computer connects to the internet through a gateway/router, select the second option as shown.



Enter a Computer description and a Computer name (optional.)



#### Click Next

Enter a **Workgroup** name. All computers on your network should have the same **Workgroup** name.

Network Setup Wiz	ard
Name your netwo	rk.
Name your network I should have the sam	by specifying a workgroup name below. All computers on your network ie workgroup name.
Workgroup name:	Accounting
	Examples: HOME or OFFICE
	< <u>B</u> ack <u>N</u> ext > Cancel

#### Click Next

Please wait while the Network Setup Wizard applies the changes.



When the changes are complete, click Next.

Please wait while the **Network Setup Wizard** configures the computer. This may take a few minutes.



In the window below, select the option that fits your needs. In this example, **Create a Network Setup Disk** has been selected. You will run this disk on each of the computers on your network. Click **Next**.

Network Setup Wizard
You're almost done
You need to run the Network Setup Wizard once on each of the computers on your network. To run the wizard on computers that are not running Windows XP, you can use the Windows XP CD or a Network Setup Disk.
What do you want to do?
⊙ Create a Network Setup Disk
◯ <u>U</u> se the Network Setup Disk I already have
◯ Use my Windows XP CD
O Just finish the wizard; I don't need to run the wizard on other computers
< Back Next > Cancel

Insert a disk into the Floppy Disk drive, in this case drive A.



Copying	
Please wait while the wizard copies files	
C	Cancel

Please read the information under **Here's how** in the screen below. After you complete the **Network Setup Wizard** you will use the **Network Setup Disk** to run the **Network Setup Wizard** once on each of the computers on your network. To continue click **Next**.

Network Setup Wizard
To run the wizard with the Network Setup Disk
Complete the wizard and restart this computer. Then, use the Network Setup Disk to run the Network Setup Wizard once on each of the other computers on your network. Here's how: 1. Insert the Network Setup Disk into the next computer you want to network. 2. Open My Computer and then open the Network Setup Disk. 3. Double-click "netsetup."
< <u>Back</u> Cancel

Please read the information on this screen, then click **Finish** to complete the **Network Setup Wizard**.

Network Setup Wizard	
	Completing the Network Setup Wizard
	You have successfully set up this computer for home or small office networking.
田今	For help with home or small office networking, see the following topics in Help and Support Center:
	<u>Using the Shared Documents folder</u> Sharing files and folders
	To see other computers on your network, click Start, and then click My Network Places.
	To close this wizard, click Finish.
	< <u>B</u> ack Finish Cancel

The new settings will take effect when you restart the computer. Click **Yes** to restart the computer.

System S	Settings Change
2	You must restart your computer before the new settings will take effect. Do you want to restart your computer now?
	<u>Y</u> es <u>N</u> o

You have completed configuring this computer. Next, you will need to run the **Network Setup Disk** on all the other computers on your network. After running the **Network Setup Disk** on all your computers, your new wireless network will be ready to use.

#### Networking Basics Naming your Computer

To name your computer, please follow these directions: In Windows XP:

- Click **Start** (in the lower left corner of the screen)
- Right-click on My Computer
- Select Properties and click



- Select the Computer Name Tab in the System Properties window.
- You may enter a Computer Description if you wish; this field is optional.
- To rename the computer and join a domain, Click **Change**.

System Properties			? 🛛	
System Restore	Automa	tic Updates	Remote	
General Comp	uter Name	Hardware	Advanced	
Windows uses the following information to identify your computer on the network.				
Computer <u>d</u> escription:				
	For example: "K Computer".	Kitchen Computer''	or "Mary's	
Full computer name: Off	се			
Workgroup: Ac	counting			
To use the Network Ident domain and create a local ID.	ification Wizard user account, (	to join a click Network	Network ID	
To rename this computer	or join a domain,	, click Change.	Change	

#### Networking Basics Naming your Computer

In this window, enter the	Computer Name Changes
Computer name	You can change the name and the membership of this computer. Changes may affect access to network resources.
Select Workgroup and enter the name of the Workgroup	Computer name:
	Office
<ul> <li>All computers on your network must have the same Workgroup name.</li> </ul>	Full computer name: Office
	More
Click OK	Member of O Domain:
	Orkgroup:
	Accounting
	ОК Cancel

#### Checking the IP Address in Windows XP

The wireless adapter-equipped computers in your network must be in the same IP Address range (see Getting Started in this manual for a definition of IP Address Range.) To check on the IP Address of the adapter, please do the following:

Right-click on the	Disable	Statute 17
Local Area	Status	
in the task bar	Repair	
	View Available Wireless Networks	
	Open Network Connections	
Click on Status		3:05 PM

#### Networking Basics Checking the IP Address in <u>Windows XP</u>

This window will appear.	★ Wireless Network Connectio	n 7 Status 🛛 ? 🔀
<ul> <li>Click the</li> <li>Support tab</li> </ul>	General Support Internet Protocol (TCP/IP) Address Type: IP Address: Subnet Mask: Default Gateway:	Assigned by DHCP 192.168.0.114 255.255.255.0 192.168.0.1 Details
Click Close	Repair	

#### Assigning a Static IP Address in Windows XP/2000

#### Note: Residential Gateways/Broadband Routers will automatically assign IP Addresses to the computers on the network, using DHCP (Dynamic Host Configuration Protocol) technology. If you are using a DHCP-capable Gateway/Router you will not need to assign Static IP Addresses.

If you are not using a DHCP capable Gateway/Router, or you need to assign a Static IP Address, please follow these instructions:

Ì	Go to <b>Start</b>	Tour Windows XP         Paint         Files and Settings Transfer         Wizard	Control Panel  Printers and Faxes  Help and Support  Search
	Control Panel	All Programs 🕨	7 Run
			Log Off O Turn Off Computer
		🛃 start	
			49

#### Networking Basics Assigning a Static IP Address in <u>Windows XP/2000</u>

Double-click on Network Connections



Double-click on Properties

🖻 Control Panel	
File Edit View Favorites Tools	Help
🕞 Back 👻 🕥 👻 🏂 🔎 Si	earch 😥 Folders 🛄 🕶
Address 📴 Control Panel	
Control Panel 🛞	<ul> <li>Accessibility Options</li> <li>Add Hardware</li> <li>Add or Remove Programs</li> <li>Administrative Tools</li> <li>Date and Time</li> </ul>
See Also	Solution Solutions
<ul> <li>Windows Update</li> <li>Help and Support</li> </ul>	Game Controllers
	Network Connections Netwo
Connects to other computers, networks, a	nd the Internet.
🛃 Start 🛛 🚱 Control Panel	



#### Networking Basics Assigning a Static IP Address in <u>Windows XP/2000</u>

- Click on Internet Protocol (TCP/IP)
- Click Properties

- Input your IP address and subnet mask. (The IP Addresses on your network must be within the same range. For example, if one computer has an IP Address of 192.168.0.2, the other computers should have IP Addresses that are sequential, like 192.168.0.3 and 192.168.0.4. The subnet mask must be the same for all the computers on the network.
- Enter the IP Address of the Default Gateway (in this case it is 192.168.0.1 for the DI-774)
- Input your DNS server address.

The DNS server address will be supplied by your ISP (Internet Service Provider). If the DNS Server address is not available from your ISP, you may input 192.168.0.1 in this field.



ieral	
u can get IP settings assig s capability. Otherwise, you e appropriate IP settings.	red automatically if your network supports need to ask your network administrator for
Obtain an IP address au Use the following IP address	tomatically ress:
IP address:	192.168.0.2
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server addr	ess automaticallu
Use the following DNS s	erver addresses:
Preferred DNS server:	



#### Networking Basics Assigning a Static IP Address with <u>Macintosh OSX</u>

- Go to the Apple Menu and select System Preferences
- Image: State of the state o

0

Click on Network

- Select Built-in Ethernet in the Show pull-down menu
- Select Manually in the Configure pull-down menu

	Location: Automatic	
: Built-in Ethern	iet 🗘	
	/ Manually	oxies
Configure	Manually using DHCI Using DHCP Using BootP	P Router
IP Address:	(Remided by DUCR Secure)	
Subnet Mask:	255.255.255.0	
Router:	192.168.0.1	Search Domains (Optional)
DHCP Client ID:	(Optional)	
thernet Address:		Example: apple.com, earthlink.net

Network

000

- Input the Static IP Address, the Subnet Mask and the Router IP Address in the appropriate fields
- Input the Domain Name Server address. Your ISP (Internet Service Provider) will provide the IP address of the DNS Server. If the DNS Server address is not available from your ISP, you may input 192.168.0.1 in this field.



Click Apply Now

#### Networking Basics Selecting a Dynamic IP Address with <u>Macintosh OSX</u>

- Go to the Apple Menu and select System Preferences
  - Click on Network



- Select Built-in Ethernet in the Show pull-down menu
- Select Using DHCP in the Configure pull-down menu

Network Startup Disk	
Location: Automatic	
Automatic	•
et 主	
Manually Manually using DHCP	Router
Using DHCP	
Using BOOTP	woman warme Servers (Optional)
Provided by DHCP Server) 255.255.255.0	
192.168.0.1	Search Domains (Optional)
(Optional)	
	Example: apple.com, earthlink.net
	t t Manually using DHCP Using DHCP Vovided by DHCP Server) 155.255.255.0 192.168.0.1

- Click Apply Now
- The IP Address, Subnet mask, and the Router's IP Address will appear in a few seconds

	Location: Automati	c 🕴
w: Built-in Ether	net 🕴	]
	TCP/IP PPPoE Ap	pleTalk Proxies
Configure:	Using DHCP	•
		Domain Name Servers (Optional)
IP Address:	192.168.0.160 (Provided by DHCP Server)	
Subnet Mask:	255.255.255.0	
Router:	192.168.0.1	Search Domains (Optional)
DHCP Client ID:	(Optional)	
Ethernet Address:	00:06:96:79:de:5a	Example: apple.com, earthlink.net

#### Networking Basics Checking the Wireless Connection by <u>Pinging in Windows XP and</u> <u>2000</u>

Go to Start > Run > type **cmd**. A window similar to this one will appear. Type ping XXX.XXX.XXX.XXX. where **xxx** is the **IP** Address of the Wireless Router or Access Point, A good wireless connection will show four replies from the Wireless Router or Acess Point, as shown.

 CY
 FiWRNDOWSUSystem32/Lend.exe
 → ×

 Microsoft Windows XP (Version 5.1.2600)
 →

 (C) Copyright 1985-2001 Microsoft Corp.
 →

 F:Nocuments and Settings-Lahdybing 192.168.0.50
 →

 Pinging 192.168.0.50 with 32 bytes of data:
 →

 Reply from 192.168.0.50: hytes=32 time=5ns TTL=30
 →

 Reply from 192.168.0.50: bytes=32 time=5ns TTL=30
 →

 Reply from 192.168.0.50: bytes=32 time=5ns TTL=30
 →

 Pring statistics for 192.168.0.50: bytes=32 time=7ns TTL=30
 →

 Pracket: Sent = 4, Received = 4, Lost = 0 (0x loss),
 →

 Approximate Found Crip times in milli=seconds:
 →

 Minimum = 3ns, Maximum = 64ms, Average = 22ms
 F:\Documents and Settings\lab4>\_

#### Checking the Wireless Connection by <u>Pinging in Windows Me</u> and <u>98</u>

Go to Start > Run > type **command**. A window similar to this will appear. Type ping XXX.XXX.XXX.XXX where xxx is the IP Address of the Wireless Router or Access Point. A aood wireless connection will show four replies from the wireless router or access point, as shown.



This Chapter provides solutions to problems that can occur during the installation and operation of the DI-774 Wireless Broadband Router. We cover various aspects of the network setup, including the network adapters. Please read the following if you are having problems.

Note: It is recommended that you use an Ethernet connection to configure the DI-774 Wireless Broadband Router.

## 1.The computer used to configure the DI-774 cannot access the Configuration menu.

- Check that the Ethernet LED on the DI-774 is ON. If the LED is not ON, check that the cable for the Ethernet connection is securely inserted.
- Check that the Ethernet Adapter is working properly. Please see item 3 (*Check that the drivers for the network adapters are installed properly*) in this **Troubleshooting** section to check that the drivers are loaded properly.
- Check that the IP Address is in the same range and subnet as the DI-774. Please see Checking the IP Address in Windows XP in the Networking Basics section of this manual.

Note: The IP Address of the DI-774 is 192.168.0.1. All the computers on the network must have a unique IP Address in the same range, e.g., 192.168.0.x. Any computers that have identical IP Addresses will not be visible on the network. They must all have the same subnet mask, e.g., 255.255.255.0

Do a Ping test to make sure that the DI-774 is responding. Go to Start>Run>Type Command>Type ping 192.168.0.1. A successful ping will show four replies.

E:\WINDOWS\System32\cmd.exe	- 🗆 ×
E:>>ping 192.168.0.1	
Pinging 192.168.0.1 with 32 bytes of data:	
Reply from 192.168.0.1: bytes=32 time(inn TH=128 Reply from 192.168.0.1: bytes=32 time(inn TH=128 Reply from 192.168.0.1: bytes=32 time(inn TH=128 Reply from 192.168.0.1: bytes=32 time(inn TH=128	
Ping statistics for 192.168.0.1: Packets: Sent = 4. Received = 4. Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Nevrage = 0ms	
E: \>	
	-

Note: If you have changed the default IP Address, make sure to ping the correct IP Address assigned to the DI-774.

## 2. The wireless client cannot access the Internet in the Infrastructure mode.

Make sure the wireless client is associated and joined with the correct Access Point. To check this connection: **Right-click** on the **Local Area Connection icon** in the taskbar> select **View Available Wireless Networks**. The **Connect to Wireless Network** screen will appear. Please make sure you have selected the correct available network, as shown in the illustrations below.

	Connect to Wireless Network
Disable <b>Status</b> Repair	The following network(s) are available. To access a network, select it from the list, and then click Connect. Available networks:
View Available Wireless Networks Open Network Connections	alan     dan     default     on     This network requires the use of a network key (WEP): To access this network, type the key, and then click Connect.  Network key:  If you are having difficulty connecting to a network, click Advanced.  Advanced  Connect Cancel

Check that the IP Address assigned to the wireless adapter is within the same IP Address range as the access point and gateway. (Since the DI-774 has an IP Address of 192.168.0.1, wireless adapters must have an IP Address in the same range, e.g., 192.168.0.x. Each device must have a unique IP Address; no two devices may have the same IP Address. The subnet mask must be the same for all the computers on the network.) To check the IP Address assigned to the wireless adapter, double-click on the Local Area Connection icon in the taskbar > select the Support tab and the IP Address will be displayed. (Please refer to Checking the IP Address in the Networking Basics section of this manual.)

If it is necessary to assign a Static IP Address to the wireless adapter, please refer to the appropriate section in Networking Basics. If you are entering a DNS Server address you must also enter the Default Gateway Address. (Remember that if you have a DHCP-capable router, you will not need to assign a Static IP Address. See Networking Basics: Assigning a Static IP Address.)

## 3. Check that the drivers for the network adapters are installed properly.

You may be using different network adapters than those illustrated here, but this procedure will remain the same, regardless of the type of network adapters you are using.



OK.

Cancel

Double-click on Network Adapters

- Right-click on D-Link AirPro DWL-A650 Wireless Cardbus Adapter (In this example, the DWL-A650 is used; you may be using another network adapter, but the procedure will remain the same.)
- Select Properties to check that the drivers are installed properly



Look under **Device** Status to check that the device is working properly

D-Lin	k AirPro DWL-A65	0 Wireless Cardbus Adapter P [? 🔀				
Gene	General Advanced Settings Driver Resources					
Ħ	D-Link AirPro DWL-A650 Wireless Cardbus Adapter					
	Device type:	Network adapters				
	Manufacturer:	D-Link				
	Location:	PCI bus 5, device 0, function 0				
	Device status     This device is working properly.					
If you are having problems with this device, click Troubleshoot to start the troubleshooter.						
Dev	Device usage:					
Us	Use this device (enable)					
		OK Cancel				

Click OK

#### 4. What variables may cause my wireless products to lose reception?

D-Link products let you access your network from virtually anywhere you want. However, the positioning of the products within your environment will affect the wireless range. Please refer to **Installation Considerations** in the **Wireless Basics** section of this manual for further information about the most advantageous placement of your D-Link wireless products.

#### 5. Why does my wireless connection keep dropping?

- Antenna Orientation- Try different antenna orientations for the DI-774. Try to keep the antenna at least 6 inches away from the wall or other objects.
- If you are using 2.4GHz cordless phones, X-10 equipment or other home security systems, ceiling fans, and lights, your wireless connection will degrade dramatically or drop altogether. Try changing the Channel on your Router, Access Point and Wireless adapter to a different Channel to avoid interference.
- Keep your product away (at least 3-6 feet) from electrical devices that generate RF noise, like microwaves, Monitors, electric motors, etc.

#### 6. Why can't I get a wireless connection?

To establish a wireless connection, while enabling Encryption on the DI-774, you must also enable encryption on the wireless client.

- For 802.11a, the Encryption settings are: 64, 128 or 152 bit. Make sure that the encryption bit level is the same on the Router and the Wireless Client.
- For 802.11g, the Encryption settings are: 64, 128, or 152 bit. Make sure that the encryption bit level is the same on the Router and the Wireless Client.

Make sure that the SSID on the Router and the Wireless Client are exactly the same. If they are not, wireless connection will not be established. Please note that there are two separate SSIDs for 802.11a and 802.11g. The default SSID for both 802.11a and 802.11g is **default**.

#### 7. Resetting the DI-774 to Factory Default Settings

After you have tried other methods for troubleshooting your network, you may choose to **Reset** the DI-774 to the factory default settings. Remember that D-Link *Air* Xpert products network together, out of the box, at the factory default settings.



To hard-reset the D-Link *Air* Xpert DI-774 to Factory Default Settings, please do the following:

- Locate the **Reset** button on the back of the DI-774
- Use a paper clip to press the **Reset** button
- Hold for about 10 seconds and then release
- After the DI-774 reboots (this may take a few minutes) it will be reset to the factory **Default** settings