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.



#### 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**.



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



#### Click Next

Copying	
Please wait while the wizard copies files	
	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.		
出了	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 3	Settings Change			
?	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 Res	tore	Automatic Updates		Remote
General	Compu	uter Name	Hardware	Advanced
Wind on the Computer <u>d</u> escri	ows uses t e network. ption: [	he following in For example: "	formation to identify	your computer
Full computer na	ame: Off	fice		
Norkgroup:	Ac	counting		
To use the Netv domain and crea ID.	vork Identif ate a local	iication Wizard user account,	I to join a click Network	<u>N</u> etwork ID

#### **Networking Basics** *Naming your Computer*

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

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

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:



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

This window will appear.		ion 7 Status 🛛 ? 🔀
Click the Support tab	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	Regair	<u>C</u> lose

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

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:

•	Go to <b>Start</b>	Tour Windows XP	Control Panel
•	Double-click on Control Panel	Paint All Programs	<ul> <li>Help and Support</li> <li>Search</li> <li>Run</li> </ul>
		🕼 start	Log Off 🚺 Turn Off Computer

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

Double-click on Network Connections



Double-click on Properties





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

Click on Internet Protocol (TCP/IP)

Click Properties

L Wireless Network Connection 3 Properties 2 General Wireless Networks Authentication Advanced Connect using: B-Link AirXpert DWL-AG-520 Wireless Cardbus Adapter Configure. This connection uses the following items: Client for Microsoft Networks 🗹 🚚 File and Printer Sharing for Microsoft Networks 🗹 🚚 QoS Packet Scheduler Internet Protocol (TCP/IP) Uninstall Properties Install... Description Allows your computer to access resources on a Microsoft network Show icon in notification area when connected OK Cancel

In the window below, select **Use the following IP address**. 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).

#### IP Address:

e.g., 192.168.0.2

Subnet Mask: 255.255.255.0

#### **Default Gateway:**

Enter the LAN IP address of the wireless router. (D-Link wireless routers have a LAN IP address of 192.168.0.1)

Select **Use the following** DNS server addresses.

Enter the LAN IP address of the Wireless Router. (D-Link wireless routers have a LAN IP address of 192.168.0.1)

u can get IP settings assigned s capability. Otherwise, you ne appropriate IP settings.	automatically if your network supports ed to ask your network administrator fo
🔿 Obtain an IP address autom	atically
Use the following IP addres:	s:
IP address:	192.168.0.52
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address	automatically
Use the following DNS serv	er addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
	Advanced.

#### Click **OK**

You have completed the assignment of a Static IP Address. (You do not need to assign a Static IP Address if you have a DHCP-capable Gateway/Router). 31

## **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 Access Point. as shown.

F:\WINDOWS\System32\cmd.exe	- 🗆 🗙
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	-
F:\Documents and Settings\lab3>ping 192.168.0.50	
Pinging 192.168.0.50 with 32 bytes of data:	
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Ping statistics for 192.168.0.50: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:	
F:\Documents and Settings\lab3>_	

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

🛤 F:\WINDOWS\System32\cmd.exe	- 🗆 🗙
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	<b>^</b>
F:\Documents and Settings\lab3>ping 192.168.0.50	
Pinging 192.168.0.50 with 32 bytes of data:	
Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64 Reply from 192.168.0.50: bytes=32 time<1ms TTL=64	
Ping statistics for 192.168.0.50: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	
F:\Documents and Settings\lab3>_	
	-

This chapter provides solutions to problems that can occur during the installation and operation of the DWL-AG520. 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. Check that the drivers for the DWL-AG520 are installed properly.



 Double-click on Network
 Adapters

Right-click on D-Link
 DWL-AG520 Wireless
 PCI Adapter

Select Properties to check that the drivers are installed properly

🖳 Device Manager	
File Action View Help	
E PM	~
🕀 🐙 Batteries	
😟 😼 Computer	
🕀 😋 Disk drives	
😟 😼 Display adapters	
🕀 🥝 DVD/CD-ROM drives	
🕀 🗃 Floppy disk controllers	
🕀 🤳 Floppy disk drives	
🕀 🚍 IDE ATA/ATAPI controllers	
🕀 🔊 Infrared devices	
🕀 🦢 Keyboards	
Mice and other pointing devices	
🕀 😼 Monitors	
🖻 🎒 Network adapters	
D-Link Air Xpert DWL-AG520	
🖅 📕 PCMCIA adapters	
🕀 🚽 Ports (COM & LPT)	
Processors	~

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

		-
ieneral	Advanced Driver Resources	
<u>₩</u> ₽	D-Link AirXpert <sup>™</sup> DWL-AG520 Tri-mode Dualband Wireless PCI Adapter	
	Device type: Network adapters	
	Manufacturer: D-Link	
	Location: Cardbus 129, device 0, function 0	
Devid	ce status	
This	device is working properly.	~
lf yo start	u are having problems with this device, click Troubleshoot to the troubleshooter.	
		×.
	Troubleshoot	
Device	Troubleshoot	
Device Use th	usage: is device (enable)	
Device Use th	Troubleshoot usage: is device (enable)	



- 2. I cannot connect to the Access Point or the wireless Router.
  - Make sure that the SSID on the DWL-AG520 PCI adapter is exactly the same as the SSID on the Access Point or wireless Router.
  - Move the DWL-AG520 and Access Point or wireless Router into the same room and then test the wireless connection.
  - Disable all security settings. (WEP, MAC Address Control, AES)
  - Make sure that the Access Point/Router is not locked down to a different frequency
  - Turn off your Access Point and the computer with the DWL-AG520. Turn on the Access Point, and then turn on the computer with the DWL-AG520.
  - Refresh the DWL-AG520 Utility

#### 3. The DWL-AG520 Power and Link lights are not on.

Check to see if the DWL-AG520 PCI adapter is firmly inserted into the PCI slot of your desktop computer.

#### 4. I forgot my Encryption key.

Reset the Access Point to its factory default settings and restore the DWL-AG520 Wireless PCI Adapter to the factory default settings.

#### 5. The computer does not recognize the DWL-AG520 Wireless Adapter.

- Make sure that the DWL-AG520 Wireless Adapter is properly seated in the computer's PCI slot.
- If Windows does not detect the hardware upon insertion of the adapter, make sure to completely remove drivers that were previously loaded. To remove the drivers, do the following:

- A. Under Tools> select Folder Options...> select View
   > under Hidden files and folders > select Show
   hidden files and folders
- B. Uncheck Hide extension for known file types > click on Apply
- C. Search for previously loaded driver files. Remove these files from the **INF** and **SYSTEM32** (DRIVERS) folders in the Windows directory. Note: Windows XP and Windows 2000 will rename .inf files that have not received WHQL certification into **oem.inf** files (e.g., **oem1.inf**).
- 6. The computer with the DWL-AG520 installed is unable to connect to the wireless network and/or the Internet.
  - Check that the LED indicators for the broadband modem are indicating normal activity. If not, there may be a problem with the broadband connection.
  - Check that the LED indicators on the wireless router are functioning properly. If not, check that the AC power and Ethernet cables are firmly connected.
  - Check that the IP Address, subnet mask, gateway, and DNS settings are correctly entered for the network.
  - In Infrastructure mode, make sure the same Service Set Identifier (SSID) is specified on the settings for the wireless clients and access points. The SSID factory default setting for the D-Link products is default. (Double-click on the WLAN icon in the taskbar. The Link Info screen will display the SSID setting).
  - In Ad-Hoc mode, both wireless clients will need to have the same SSID. Please note that it might be necessary to set up one client to establish a BSS (Basic Service Set) and wait briefly before setting up other clients. This prevents several clients from trying to establish a BSS at the same time, which can result in multiple singular BSSs being established, rather than a single BSS with multiple clients associated to it.

- Check that the Network Connection for the wireless client is configured properly. Select AP (Infrastructure) when connecting to an access point and select Ad-Hoc mode when connecting without an access point. Double-click on the WLAN icon in the taskbar > click on Configuration to change the settings for the wireless adapter.
- If Security is enabled, make sure that the correct encryption keys are entered on both the DWL-AG520 and the access point. Doubleclick on the WLAN icon in the taskbar > click Encryption. Check to see that the key selected is set to the same key as other devices on the network.
- If Turbo mode is enabled, make sure that Turbo mode is enabled on all Turbo mode compatible devices in your network, in order to communicate.
- 7. How can I troubleshoot distance issues using the DWL-AG520.
  - Move the DWL-AG520 and Access Point or wireless Router into the same room and then test the wireless connection.
  - Change the channel of the Access Point.
  - Move devices within the line of sight

# Federal Communication Commission Interference 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 provide reasonable protection against harmful to interference residential installation. This in а 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.

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.

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.

#### **IMPORTANT NOTE:**

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

If this device is going to be operated in  $5.15 \sim 5.25$ GHz and the 5.25 to 5.35GHz frequency range, then it is restricted in indoor environment only.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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