This chapter provides solutions to problems that can occur during the installation and operation of the DI-614+ Wireless Access Point. 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-614+ Access Point.)

- 1. The computer used to configure the DI-614+ cannot access the Configuration menu.
  - Check that the **Ethernet LED** on the DI-614+ 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 6 (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-614+. Please see Checking the IP Address in Windows XP in the Networking Basics section of this manual.

Note: The IP Address of the DI-614+ 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. and a Subnet Mask of 255.255.255.0. Any computers that have identical IP Addresses will not be visible on the network.

 Do a Ping test to make sure that the DI-614+ is responding. Go to Start>Run>Type Command>Type ping 192.168.0.1. A successful ping will show four replies.



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

 Make sure the wireless client is associated and joined with the correct router. 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
	The following network(s) are available. To access a network, select it from the list, and then click Connect.
	Available networks:
	t alan Alan
	L Default
Disable	This network requires the use of a network key (WEP). To access this network, type the key, and then click Connect.
Status Repair	Network key:
View Available Wireless Networks	If you are having difficulty connecting to a network, click Advanced.
Open Network Connections	Advanced Connect Cancel

- Check that the IP Address assigned to the wireless adapter is within the same IP Address range as the gateway. Since the DI-614+ 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.

- Go to Start
- Right-click on My Computer
- Click Properties

**NOTE**: Screen shots taken using Windows XP. If you are using a different Operating System your screen may look different.

- Select the
   Hardware Tab
- Click Device
   Manager





- Double-click on Network
   Adapters
- Right-click on D-Link
   AirPlus DWL-650+
   Wireless Cardbus
   Adapter
- Select Properties to check that the drivers are installed properly



D-Link AirPlus DWL-650+ Wireless Cardbus Adapter

**?**×

General Advanced Settings Driver Resources Look under **Device** • D-Link AirPlus DWL-650+ Wireless Cardbus Adapter 台口 Status to check that the device is working properly. Network adapters Device type: 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. Troubleshoot.. Device usage: Click OK Use this device (enable) ¥ ΟK Cancel

#### 4. Resetting the DI-614+ to Factory Default Settings

After you have tried other methods for troubleshooting your network, you may choose to **Reset** the DI-614+ to the factory default settings. Remember that D-Link *Air*Plus products network together, out of the box, at the factory default settings.



To hard-reset the D-Link *Air*Plus DI-614+ to Factory Default Settings, please do the following:

- · Leave the device powered on, do not disconnect the power
- Press the reset button and hold (use a paper clip)
- Keep the button pressed about 10 seconds
- Release the button

The DI-614+ will then automatically reboot itself.

### 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.



Click Next

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

Network Setup Wizard
Give this computer a description and name.
<u>Computer description:</u> Examples: Family Room Computer or Monica's Computer
Computer name: Office Examples: FAMILY or MONICA
The current computer name is Office
Learn more about <u>computer names and descriptions</u> .
< Back Next> Cancel

Click Next

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

Net	work Setup Wizard	
'	lame your network.	
Name your network by specifying a workgroup name below. All computers on your net should have the same workgroup name. Workgroup name: Examples: HOME or OFFICE		ifying a workgroup name below. All computers on your network group name.
<u> </u>	⊻orkgroup name:	Accounting
	i	Examples: HOME or OFFICE
		<pre></pre>

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 best option. 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.



Format the disk if you wish, and click Next.

Please wait while the Network Setup Wizard copies the files.

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 "hetsetup."		
< <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.
山今	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.
	< Back Finish Cancel

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

System 9	Settings Change 🛛 🔀
?	You must restart your computer before the new settings will take effect. Do you want to restart your computer now?
	Yes No

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



#### Networking Basics Naming your Computer

- In this window, enter the Computer name.
- Select Workgroup and enter the name of the Workgroup.
- All computers on your network must have the same Workgroup name.
- Click OK

Computer Name Changes
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
Office
Full computer name: Office
<u>M</u> ore
Member of
O <u>D</u> omain:
⊙ <u>W</u> orkgroup:
Accounting
OK Cancel

# Checking the IP Address in Windows XP/2000





#### **Networking Basics** *Checking the IP Address in Windows XP/2000*

#### Type Command



Click OK

# Checking the IP Address in Windows XP/2000

Type **ipconfig /all** at the prompt. Click **Enter**. All the configuration settings are displayed as shown below.



#### **Networking Basics** Checking the IP Address in Windows XP/2000

Type **ipconfig** /**renew** at the prompt to get a new IP Address. Click **Enter**. The new IP Address is shown below.



(Windows 98/ME users: go to Start > Run. Type Command. Type winipcfg at the prompt. Click Release and Renew to obtain a new IP Address.)

#### Assigning a Static IP Address

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 Start
- Double-click on Control Panel

	<b>&gt;</b>
Tour Windows XP         Paint         Riles and Settings Transfer         Wizard	Control Panel Control Panel Printers and Faxes Help and Support Search
All Programs 🕨	🖅 Run
2	Log Off 🚺 Turn Off Computer
🛃 start	

#### Networking Basics Assigning a Static IP Address

Double-click on
 Network Connections

- Right-click on Local Area Connections.
- Double-click
   Properties

🖻 Control Panel
File Edit View Favorites Tools Help
🔇 Back 🔹 🕥 👻 🏂 🔎 Search 🏠 Folders 🛄 -
Address 🔂 Control Panel
Control Panel Suitch to Category View Control Panel Category View Category View Control Panel Category View Catego
See Also          See Also       Image: Controllers         Windows Update       Game Controllers         Help and Support       Internet Options         Metwork Connections       Phone and Modem Options         Prower Options       Prover Options         Prover Options       Prover Options         Prover Options       Prover Options         Scanners and Taxes       Redued Tasks         Scench sub and Audio Devices       Speech         System       Taskbar and Start Menu         User Accounts       Vertex Accounts
Connects to other computers, networks, and the Internet.
H start Control Panel



#### Networking Basics Assigning a Static IP Address

- Highlight
   Internet
   Protocol
   (TCP/IP)
- Click Properties
- Select Use the following IP address in the Internet Protocol (TCP/IP) Properties window,
- 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.)
- Input your DNS server addresses. (Note: If you are entering a DNS server, you must enter the IP Address of the Default Gateway.)

The DNS server information will be provided by your ISP (Internet Service Provider.)

4.	Local Area Connection 7 Properties 🛛 🔹 💽
6	ieneral Advanced
	Connect using:
	BWL-650+ Wireless Cardbus Adapter
	Lenfigure
	<ul> <li>☑ Client for Microsoft Networks</li> <li>☑ IFile and Printer Sharing for Microsoft Networks</li> <li>☑ IFile QoS Packet Scheduler</li> <li>☑ Internet Protocol (TCP/IP)</li> </ul>
	Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
	Show icon in notification area when connected
L	OK Cancel
In	ternet Protocol (TCP/IP) Properties
	General
	You can get IP settings assigned automatically if your network supports

Use the following IP address	
IP address:	192.168.0.2
Sybnet mask:	255 . 255 . 255 . 0
Default gateway:	
Preferred DNS server:	
Alternate DNC	

#### 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.)