OfficeConnect®
Wireless Cable/DSL Gateway
User Guide

3CRWE51196

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http://www.3com.com/

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CONTENTS

ABOUT THIS GUIDE

Naming Convention 7
Conventions 7
Feedback about this User Guide 8
Related Documentation 8
Product Registration 8

1 INTRODUCING THE OFFICECONNECT WIRELESS CABLE/DSL GATEWAY

OfficeConnect Wireless Cable/DSL Gateway 9
Wireless Cable/DSL Gateway Advantages 10
Package Contents 10
Minimum System and Component Requirements 11
Front Panel 11
Rear Panel 13

2 HARDWARE INSTALLATION

Introduction 15
Safety Information 15
Positioning the Gateway 15
Using the Rubber Feet 16
Before you Install your Gateway 16
Powering Up the Gateway 16
Connecting the Wireless Cable/DSL Gateway 16

3 SETTING UP YOUR COMPUTERS

Obtaining an IP Address Automatically 19
Windows 2000 19
Windows XP 20
Windows 95/98/ME 20
Macintosh 20
PPPoE Client Software 21
Web Proxy Settings 21

4 RUNNING THE SETUP WIZARD

Accessing the Wizard 23
Password 25

Timezone 26
WAN Settings 26
PPPoE Mode 26
Dynamic IP Address Mode 27
Static IP Mode 28
LAN Settings 28
DHCP 28
Summary 30

5 GATEWAY CONFIGURATION

Navigating Through the Gateway Configuration Pages 31
Main Menu 31
Option Tabs 31
Getting Help 31
Welcome Screen 32
Notice Board 32
Password 32
Changing the Administration Password 33
Wizard 33
LAN Settings 33
Unit Configuration 33
DHCP Clients List 34
Wireless Settings 35
Wireless Configuration 35
Channel Selection 35
Service Area Name/SSID 35
Encryption 36
Wireless Encryption Type 36
Encryption Keys 36
Connection Control 38
Connected Client List 38
Modifying a MAC Address 39
Deleting a MAC Address 40
Connected Clients List 40
Internet Settings 40
Connection to ISP 40
IP Allocation Mode 40
PPP over Ethernet connection 41
Dynamic IP Address 42
Static IP Address 42
Advanced 43
Clone MAC 43
Firewall 43
Virtual Servers 43
Virtual DMZ 44
Virtual Server 44
Special Applications 45

PCs Privileges 46
Security 48
Allow PING from the Internet 48
Disable Firewall 49
Enabling Remote Administration 49
System Tools 49
Restart 49
Time Zone 50
Configuration 50
Backup Configuration 50
Restore Configuration Data 51
Reset to Factory Default 51
Upgrade 51
Status and Logs 52
Status 52
Logs 52
Support 53

6 TROUBLESHOOTING

Basic Connection Checks 55
Browsing to the Gateway Configuration Screens 55
Connecting to the Internet 56
Forgotten Password 56
Wireless Networking 57
Alert LED 58
Recovering from Corrupted Software 58
Frequently Asked Questions 59

A USING DISCOVERY

Running the Discovery Application 61
Windows Installation (95/98/2000/Me/NT) 61

B IP ADDRESSING

The Internet Protocol Suite 63
Managing the Cable/DSL Gateway over the Network 63
IP Addresses and Subnet Masks 63
Type One 63
Type Two 64
How does a Device Obtain an IP Address and Subnet Mask? 64
DHCP Addressing 64
Static Addressing 65
Auto-IP Addressing 65

C TECHNICAL SPECIFICATIONS

Interfaces 67

WLAN Interface 67
Operating Temperature 67
Power 67
Humidity 67
Dimensions 67
Weight 67
Standards 67
System Requirements 68
Operating Systems 68
Ethernet Performance 68
Wireless Performance 68
Cable Specifications 68

D SAFETY INFORMATION

Important Safety Information 69
Wichtige Sicherheitshinweise 69
Consignes importantes de sécurité 70

E END USER SOFTWARE LICENCE AGREEMENT

3Com Corporation
END USER SOFTWARE LICENSE AGREEMENT 73

F ISP INFORMATION

Information Regarding Popular ISPs 75

GLOSSARY

INDEX

REGULATORY NOTICES

ABOUT THIS GUIDE

This guide is intended for use by those responsible for installing and setting up network equipment; consequently, it assumes a basic working knowledge of LANs (Local Area Networks) and Internet gateway systems.

If a release note is shipped with this OfficeConnect Wireless Cable/DSL Gateway and contains information that differs from the information in this guide, follow the information in the release note.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) on the 3Com World Wide Web site:

http://www.3com.com

Naming Convention

Throughout this guide, the OfficeConnect Wireless Cable/DSL Gateway is referred to as the "Gateway".

Category 3 and Category 5 Twisted Pair Cables are referred to as Twisted Pair Cables throughout this guide.

Conventions

Table 1 and Table 2 list conventions that are used throughout this guide.

Table 1 Notice Icons

Icon	Notice Type	Description
	Information note	Information that describes important features or instructions
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, or device
	Warning	Information that alerts you to potential personal injury

Table 2 Text Conventions

Convention	Description
The words "enter" and "type"	When you see the word "enter" in this guide, you must type something, and then press Return or Enter. Do not press Return or Enter when an instruction simply says "type."
Keyboard key names	If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press Ctrl+Alt+Del

Table 2 Text Conventions (continued)

Convention	Description
Words in *italics*	Italics are used to: ■ Emphasize a point. ■ Denote a new term at the place where it is defined in the text. ■ Identify menu names, menu commands, and software button names. Examples: From the *Help* menu, select *Contents*. Click *OK*.

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Please include the following information when commenting:

- Document title
- Document part number (on the title page)
- Page number (if appropriate)

Example:

- OfficeConnect Wireless Cable/DSL Gateway User Guide
- Part Number DUA5119-6AAA01
- Page 24

Do not use this e-mail address for technical support questions. For information about contacting Technical Support, please refer to the Support and Safety Information sheet.

Related Documentation

In addition to this guide, each OfficeConnect Wireless Cable/DSL Gateway document set includes one Installation Guide. This guide contains the instructions you need to install and configure your Wireless Cable/DSL Gateway.

Product Registration

You can now register your OfficeConnect Wireless Cable/DSL Gateway on the 3Com web site and receive up-to-date information on your product:

`http://support.3com.com/registration/frontpg.pl`

1 INTRODUCING THE OFFICECONNECT WIRELESS CABLE/DSL GATEWAY

Welcome to the world of networking with 3Com®. In the modern business environment, communication and sharing information is crucial. Computer networks have proved to be one of the fastest modes of communication but, until recently, only large businesses could afford the networking advantage. The OfficeConnect® product range from 3Com has changed all this, bringing networks to the small office.

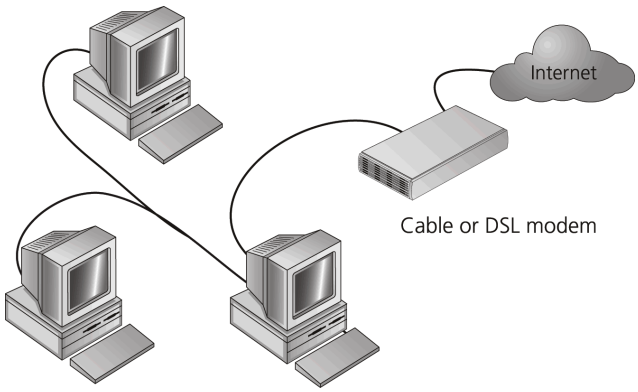
The products that compose the OfficeConnect range give you, the small office user, the same power, flexibility, and protection that has been available only to large corporations. Now, you can network the computers in your office, connect them all to a single Internet outlet, and harness the combined power of all of your computers.

OfficeConnect Wireless Cable/DSL Gateway

The OfficeConnect Wireless Cable/DSL Gateway is designed to provide a cost-effective means of sharing a single broadband Internet connection amongst several wired and wireless computers. The Gateway also provides protection in the form of an electronic "firewall," preventing anyone outside of your network from seeing your files or damaging your computers.

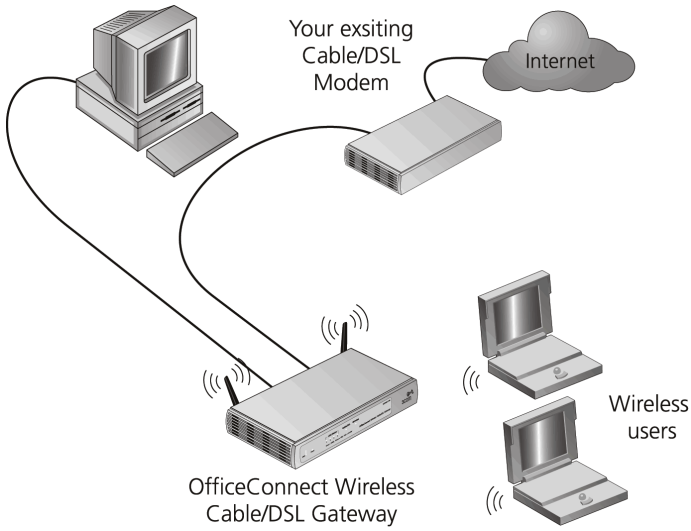
As you can see in the example in Figure 1, one computer is connected to the Internet. This computer must always be powered on for the other computers on the network to access the Internet.

Figure 1 Example Network Without a Wireless Cable/DSL Gateway



When you use the Wireless Cable/DSL Gateway in your network (Figure 2), it becomes your connection to the Internet. Connections can be made directly to the Gateway, or to an OfficeConnect Hub or Switch, expanding the number of computers you can have in your network.

Figure 2 Example Network Using a Wireless Cable/DSL Gateway



Wireless Cable/DSL Gateway Advantages

The advantages of the OfficeConnect Wireless Cable/DSL Gateway include:

- Shared Internet connection for wired and wireless computers
- No need for a dedicated, "always on" computer serving as your Internet connection
- Cross-platform operation for compatibility with Windows, Unix and Macintosh computers
- Easy-to-use, Web-based setup and configuration
- Provides centralization of all network address settings (DHCP)
- Acts as a Virtual server to enable remote access to Web, FTP, and other services on your network
- Security - Firewall protection against Internet hacker attacks and encryption to protect wireless network traffic.

Package Contents

The OfficeConnect Wireless Cable/DSL Gateway kit includes the following items:

- One OfficeConnect Wireless Cable/DSL Gateway
- One power adapter for use with the Gateway
- Four rubber feet
- One Ethernet cable
- One CD-ROM containing the Gateway Discovery program and this User Guide
- Installation Guide
- One Support and Safety Information Sheet
- One Warranty Flyer

If any of these items are missing or damaged, please contact your retailer.

Minimum System and Component Requirements

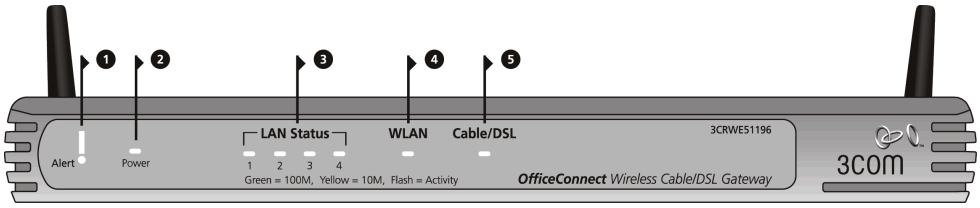
Your OfficeConnect Wireless Cable/DSL Gateway requires that the computer(s) and components in your network be configured with at least the following:

- A computer with an operating system that supports TCP/IP networking protocols (for example Windows 95/98/NT/Me/2000, Unix, Mac OS 8.5 or higher).
- An Ethernet 10Mbps or 10/100 Mbps NIC for each computer to be connected to the four-port switch on your Gateway.
- A wireless NIC for Laptop computers
- A cable modem or DSL modem with an Ethernet port (RJ-45 connector).
- An active Internet access account.
- A web browser program that supports Java Script, such as Netscape 4.0 or higher or Internet Explorer 5.0 or higher.

Front Panel

The front panel of the Gateway contains a series of indicator lights (LEDs) that help describe the state of various networking and connection operations.

Figure 3 Wireless Cable/DSL Gateway - Front Panel



1 Alert LED

Orange

Indicates a number of different conditions, as described below.

Off - The Gateway is operating normally.

Flashing quickly - Indicates one of the following conditions:

- The Gateway has just been started up and is running a self-test routine, or
- The administrator has invoked the *Reset to Factory Defaults* command, or
- The system software is in the process of being upgraded

In each of these cases, wait until the Gateway has completed the current operation and the alert LED is Off.

Flashing slowly - The Gateway has completed the *Reset to Factory Defaults* process, and is waiting for you to reset the unit. To do this, remove power, wait 10 seconds and then re-apply power. The Gateway will then enter the start-up sequence and resume normal operation.

On for 2 seconds, and then off - The Gateway has detected and prevented a hacker from attacking your network from the Internet.

Continuously on - A fault has been detected with your Gateway during the start-up process. Refer to Chapter 6 “Troubleshooting.”

2 Power LED

Green

Indicates that the Gateway is powered on.

3 Four LAN Status LEDs

Green (100Mbps link) / yellow (10Mbps link)

If the LED is on, the link between the port and the next piece of network equipment is OK. If the LED is flashing, the link is OK and data is being transmitted or received. If the LED is off, nothing is connected, the connected device is switched off, or there is a problem with the connection (refer to Chapter 6 "Troubleshooting"). The port will automatically adjust to the correct speed and duplex.

4 Wireless LAN (WLAN) Status LED

Yellow

If the LED is on it indicates that wireless networking is enabled. If the LED is flashing, the link is OK and data is being transmitted or recieved. If the LED is off, the Wireless LAN has been disabled in the Gateway, or there is a problem (refer to Chapter 6 "Troubleshooting").

5 Cable/DSL Status LED

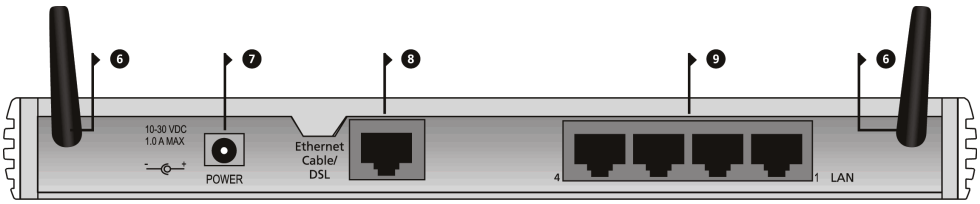
Green (100Mbps link) / yellow (10Mbps link)

If the LED is on, the link between the Gateway and the cable or DSL modem is OK. If the LED is flashing, the link is OK and data is being transmitted or received. If the LED is off, nothing is connected, the modem is switched off or there is a problem (refer to Chapter 6 "Troubleshooting").

Rear Panel

The rear panel (Figure 4) of the Gateway contains four LAN ports, one Ethernet Cable/DSL port, and a power adapter socket.

Figure 4 Cable/DSL Gateway - Rear Panel



6 Wireless Antennae

The antennae on the product should be placed in a 'V' position when initially installed.

7 Power Adapter Socket

Only use the power adapter supplied with this Gateway. Do not use any other adapter.

8 Ethernet Cable/DSL port

Use the supplied patch cable to connect the Gateway to the Ethernet port on your cable or DSL modem. The port will automatically adjust to the correct speed and duplex.

9 Four 10/100 LAN ports

Using suitable RJ-45 cable, you can connect your Gateway to a computer, or to any other piece of equipment that has an Ethernet connection (for example, a hub or a switch). The LAN ports are configured as MDIX, for connection to a computer with a straight through RJ-45 cable.

2 HARDWARE INSTALLATION

Introduction

This chapter will guide you through a basic installation of the OfficeConnect Wireless Cable/DSL Gateway, including:

- Connecting the Gateway to the Internet.
- Connecting the Gateway to your network.
- Setting up your computers for networking with the Gateway.

Safety Information

WARNING: Please read the "Important Safety Information" section in Appendix D before you start.

VORSICHT: *Bitte lesen Sie den Abschnitt "Wichtige Sicherheitsinformationen" sorgfältig durch, bevor Sie das Gerät einschalten.*

AVERTISSEMENT: *Veuillez lire attentivement la section "Consignes importantes de sécurité" avant de mettre en route.*

Positioning the Gateway

You should place the Wireless Cable/DSL Gateway in a location that:

- is centrally located to the wireless computers that will connect to the Gateway. A suitable location might be on top of a high shelf or similar furniture to optimise wireless connections to computers in both horizontal and vertical directions, allowing coverage throughout.
- is conveniently located for connection to the cable or DSL modem that will be used to connect to the Internet.
- allows convenient connection to the computers that will be connected to the four LAN ports on the rear panel, if desired.
- allows easy viewing of the front panel LED indicator lights, and access to the rear panel connectors, if necessary.

When positioning your Gateway, ensure:

- It is out of direct sunlight and away from sources of heat.
- Cabling is away from power lines, fluorescent lighting fixtures, and sources of electrical noise such as radios, transmitters and broadband amplifiers.
- Water or moisture cannot enter the case of the unit.

- Air flow around the unit and through the vents in the side of the case is not restricted. 3Com recommends you provide a minimum of 25 mm (1 in.) clearance.

Using the Rubber Feet

Use the four self-adhesive rubber feet to prevent your Gateway from moving around on your desk or when stacking with other flat top OfficeConnect units. Only stick the feet to the marked areas at each corner of the underside of your Gateway.

Before you Install your Gateway

Before you install and configure your Gateway, you need the following additional information. If you do not have this information, contact your Internet Service Provider. Space is provided below for you to record this information.

If you have a DSL connection and your ISP allocates IP information dynamically over PPPoE, you need a User Name and Password:

PPPoE User Name : _____

PPPoE Password : _____

PPPoE Service Name : _____

You only need a PPPoE Service Name if your ISP requires one. Do not enter anything if your ISP does not require a service name

If your ISP allocates fixed or static IP information, you need the following information:

IP Address : ____.____.____.____

Subnet Mask : ____.____.____.____

Default Gateway address : ____.____.____.____

DNS address : ____.____.____.____

If your ISP allocates IP information dynamically over a protocol other than PPPoE, you do not need any further information. This configuration is typical of cable connections.

Powering Up the Gateway

To power up the Gateway:

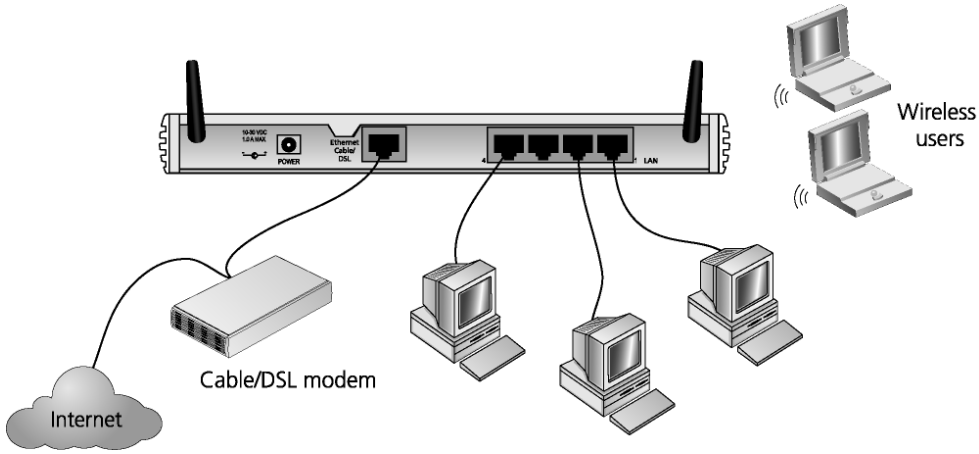
1. Plug the power adapter into the power adapter socket located on the back panel of the Gateway (refer to "Power Adapter socket" on page 13).
2. Plug the power adapter into a standard electrical wall socket.

Connecting the Wireless Cable/DSL Gateway

The first step for installing your Wireless Cable/DSL Gateway is to physically connect it to a cable or DSL modem in order to be able to access the Internet.

To use your Wireless Cable/DSL Gateway to connect to the Internet through an external cable or DSL modem (Figure 5):

Figure 5 Connecting the Wireless Cable/DSL Gateway



1 Insert one end of the supplied Ethernet (RJ-45 Category 5) cable into the Cable/DSL port on the rear panel of the Wireless Cable/DSL Gateway.

2 Insert the other end of the cable into the RJ-45 port on your cable or DSL modem. Check that the Cable/DSL status LED lights on the Gateway.

3 Connect the cable or DSL modem to the Internet.

4 Connect your computer to one of the four LAN ports on the Gateway using a twisted pair cable. Check that the corresponding LAN status LED on the Gateway lights.

You have now completed the hardware installation of your Gateway. Next you need to set up your computers so that they can make use of the Gateway to communicate with the Internet.

3Com recommends that you perform the initial Gateway configuration from a computer that is directly connected to one of the LAN ports. You may alternatively configure the Gateway from a wireless computer, but note that you may lose contact with the Gateway if you change the wireless configuration.

To communicate with the Gateway, your wireless NIC should be set as follows:

- WEP encryption - none
- ESSID - 101
- Channel - 11

3 SETTING UP YOUR COMPUTERS

The OfficeConnect Wireless Cable/DSL Gateway has the ability to dynamically allocate network addresses to the computers on your network, using DHCP. However, your computers need to be configured correctly for this to take place. To change the configuration of your computers to allow this, follow the instructions in this chapter. If your computers are configured with fixed or static addresses and you do not wish to change this, then you should use the Discovery program on the Gateway CD-ROM to detect and configure your Gateway. Refer to Appendix A for information on using the Discovery program.

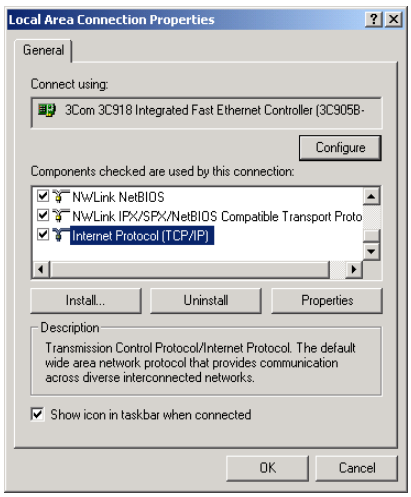
Obtaining an IP Address Automatically

Windows 2000

If you are using a Windows 2000-based computer, use the following procedure to change your TCP/IP settings:

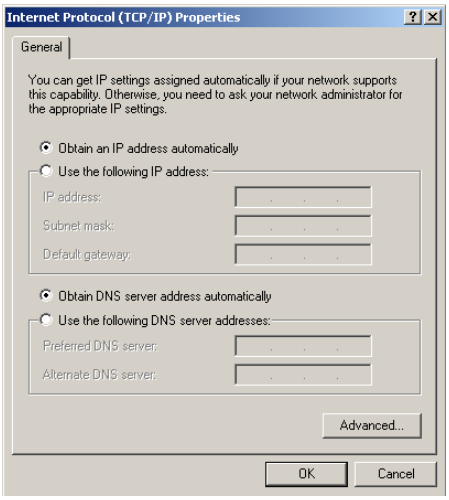
1. From the Windows *Start* Menu, select *Settings* > *Control Panel*.
2. Double click on *Network and Dial-Up Connections*.
3. Double click on *Local Area Connection*.
4. Click on *Properties*.
5. A screen similar to Figure 6 should be displayed. Select *Internet Protocol TCP/IP* and click on *Properties*.

Figure 6 Local Area Properties Screen



6. Ensure that the options *Obtain an IP Address automatically*, and *Obtain DNS server address automatically* are both selected as shown in figure 7. Click *OK*.

Figure 7 Internet Protocol (TCP/IP) Properties Screen



7 Restart your computer.

Windows XP

1 From the Windows Start menu, select Control Panel.
2 Click on Network and Internet Connections.
3 Click on the Network Connections icon.
4 Double click on LAN or High Speed Connection icon. A screen titled Local Area Connection Status will appear.
5 Select Internet Protocol TCP/IP and click on Properties.
6 Ensure that the options Obtain an IP Address automatically, and Obtain DNS servers automatically are both selected. Click OK.
7 Restart your computer.

Windows 95/98/ME

1 From the Windows *Start* Menu, select *Settings* > *Control Panel*.
2 Double click on *Network*. Select the *TCP/IP* item for your network card and click on *Properties*.
3 In the TCP/IP dialog, select the *IP Address* tab, and ensure that *Obtain IP address automatically* is selected. Click *OK*.

Macintosh

If you are using a Macintosh computer, use the following procedure to change your TCP/IP settings:

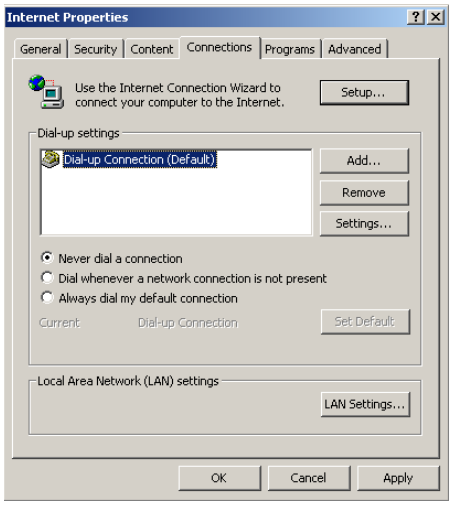
1 From the desktop, select *Apple Menu*, *Control Panels*, and *TCP/IP.*
2 In the *TCP/IP* control panel, set *Connect Via:* to "Ethernet." From the list, select "Ethernet."
3 In the TCP/IP control panel, set *Configure:* to "Using DHCP Server."
4 Close the *TCP/IP* dialog box, and save your changes.
5 Restart your computer.

PPPoE Client Software

If you have PPPoE client software installed on your computer, you will need to disable it. To do this:

1. From the Windows *Start* menu, select *Settings* > *Control Panel*.
2. Double click on *Internet* Options.
3. Select the *Connections* Tab. A screen similar to Figure 8 should be displayed.
4. Select the *Never Dial a Connection* option.

Figure 8 Internet Properties Screen



You may wish to remove the PPPoE client software from your computer to free resources, as it is not required for use with the Gateway.

Web Proxy Settings

Ensure that you do not have a web proxy enabled on your computer.

Go to the *Control Panel* and click on *Internet Options*. Select the *Connections* tab and click on the *LAN Settings* button at the bottom. Make sure that the *Use Proxy Server* option is unchecked.

4 RUNNING THE SETUP WIZARD

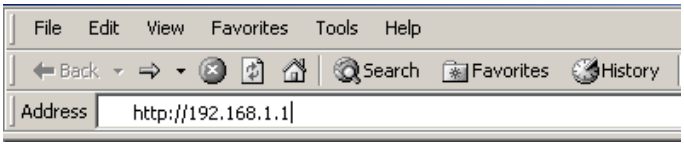
Accessing the Wizard

The Wireless Cable/DSL Gateway setup program is Web-based, which means that it is accessed through your Web browser (Netscape Navigator or Internet Explorer).

To use the Setup Wizard:

1. Ensure that you have at least one computer connected to the Gateway. Refer to chapter 2 for details on how to do this.
2. Launch your Web browser on the computer. Enter the following URL in the location or address field of your browser: **http://192.168.1.1**. (Figure 9)

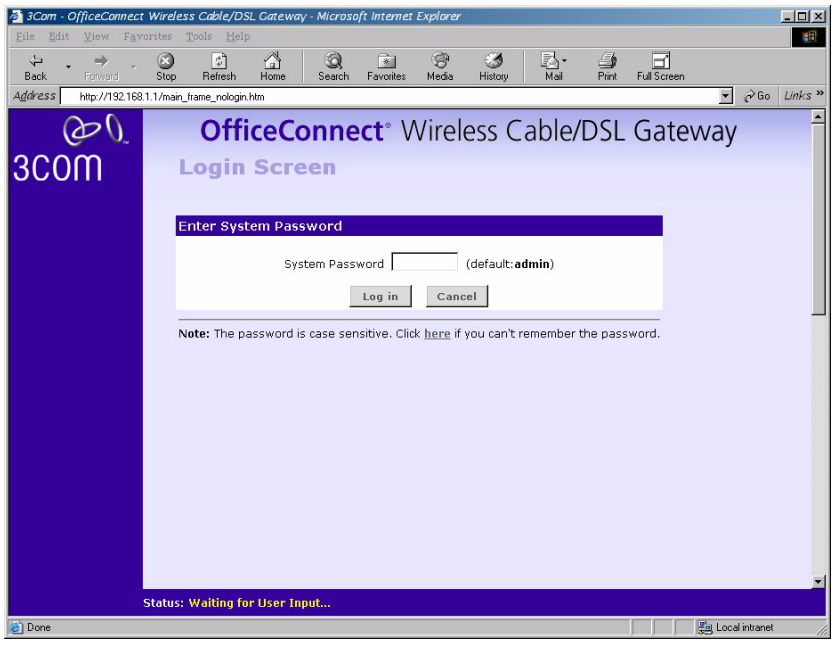
Figure 9 Web Browser Location Field (Factory Default)



3. To log in as an administrator, enter the password (the default setting is *admin*) in the *System Password* field and click *Log in* (Figure 10).

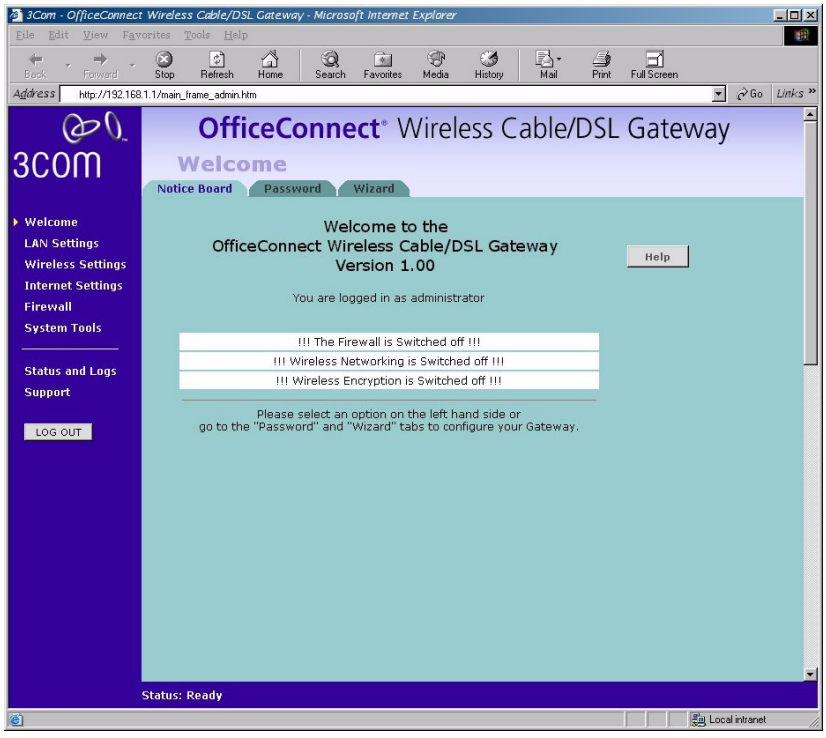
Be sure to bookmark this screen for easy reference if you should want to change the Gateway settings.

Figure 10 OfficeConnect Wireless Cable/DSL Gateway Log in Screen



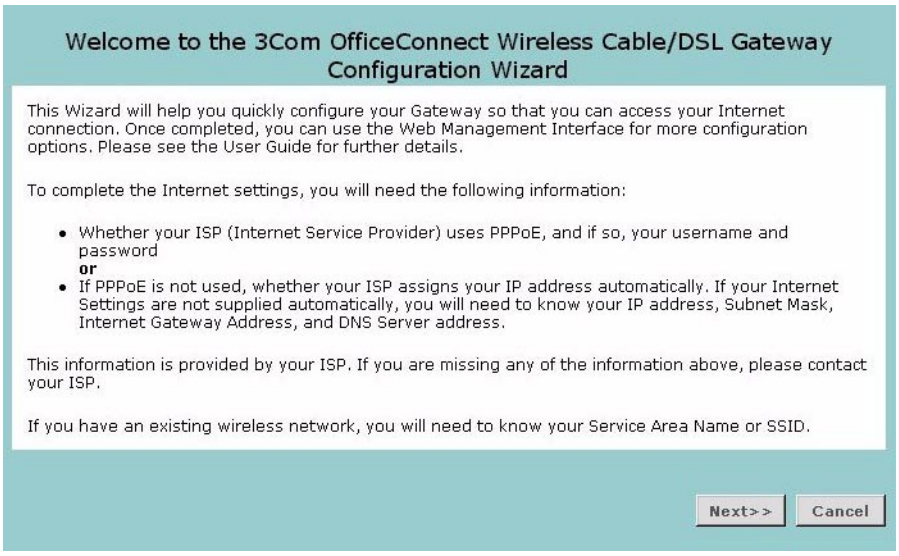
4 If the password is correct, the *OfficeConnect Wireless Cable/DSL Gateway Welcome* screen will appear (Figure 11). If your Gateway has not been configured before, the Wizard will launch automatically (refer to Figure 12).

Figure 11 OfficeConnect Wireless Cable/DSL Gateway Welcome Screen



By selecting the *Wizard* tab on the *Welcome* screen the Wizard welcome screen will display (Figure 12). You will be guided, step-by-step, through a basic setup procedure.

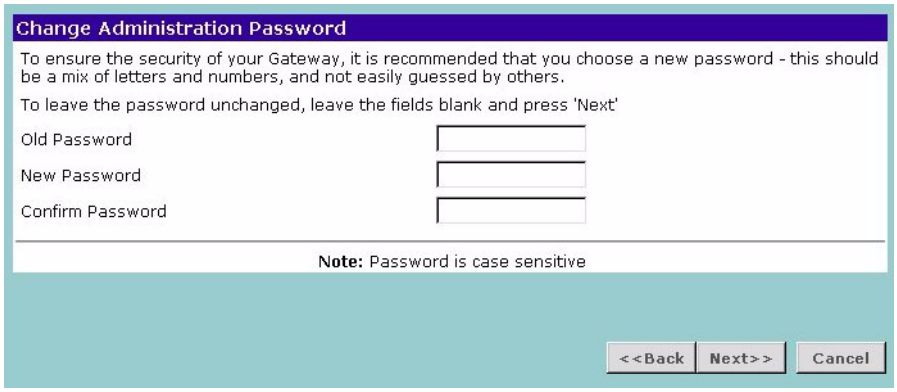
Figure 12 Wizard Screen



Click *Next* to display the *Change Administration Password* screen (Figure 13)

Password

Figure 13 Change Administration Password Screen



When the *Change Administration Password* screen (Figure 13) appears, type the *Old Password*, then a new password in both the *New Password* and *Confirm Password* boxes.

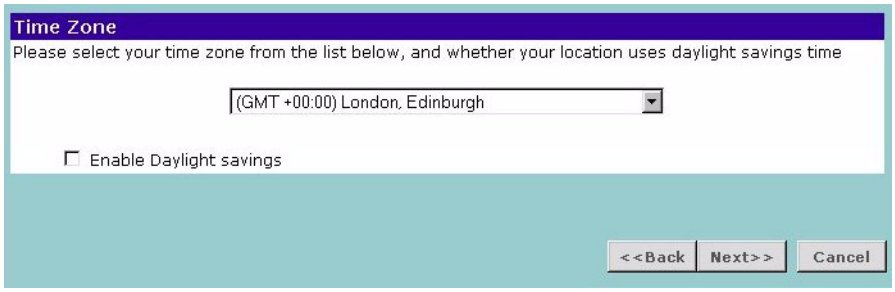
3Com recommends entering a new password when setting up the Gateway for the first time. The Gateway is shipped from the factory with a default password, admin.

1. *Password is case sensitive.*
2. *Write the new password down and keep it in a safe place, so that you can change your settings in the future.*

Click *Next* to display the *Time Zone* setup screen (Figure 14).

Timezone

Figure 14 Time Zone Screen

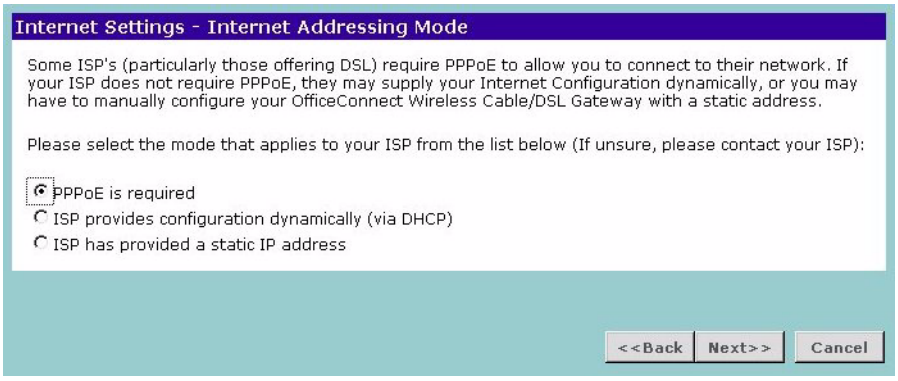


Select your time zone from the pull-down menu, check the daylight savings option if required, and then click *Next*.

The Daylight Savings option advances the system clock by one hour. It does not cause the system clock to be updated for daylight savings time automatically.

WAN Settings

Figure 15 Internet Settings Screen

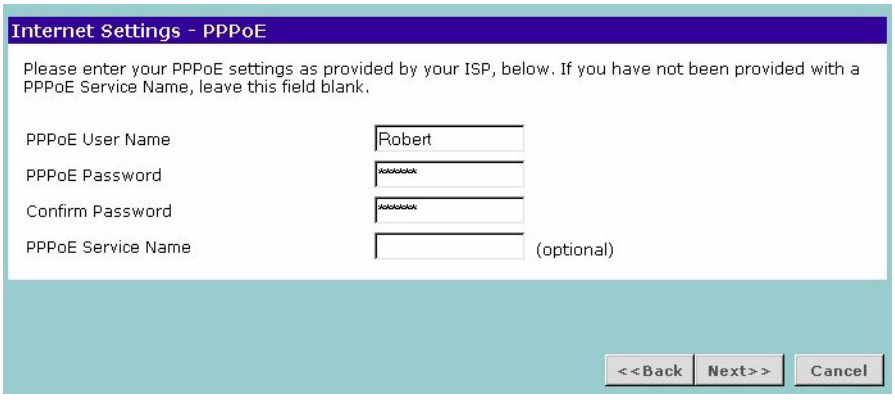


This *Internet Addressing Mode* window allows you to set up the Gateway for the type of Internet connection you have. Before setting up your Internet connection mode, have the modem setting information from your ISP ready.

Select an Internet Addressing mode and click *Next*. Depending on your selection, refer to PPPoE Mode, Dynamic IP Address Mode or Static IP Mode.

PPPoE Mode

Figure 16 PPPoE Screen



To setup the gateway for use with a PPP over Ethernet (PPPoE) connection, use the following procedure:

1. Select the *PPPoE is required* radio button (See Figure 15) and then click *Next*.
2. Enter your PPP over Ethernet user name in the *PPPoE User Name* text box.
3. Enter your PPP over Ethernet password in the *PPPoE Password* text box.
4. Enter your PPP over Ethernet password again in the *Confirm Password* text box.
5. Enter your PPP over Ethernet service name in the *PPPoE Service Name* text box.

   This is optional. Not all ISPs require a PPPoE service name.

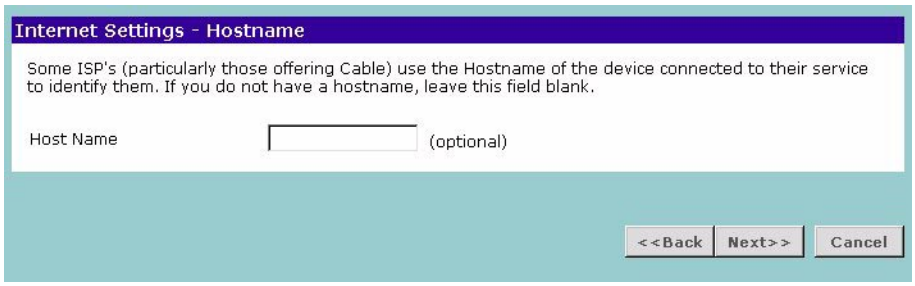
   Do not enter anything in this box if your ISP does not require a service name.
6. Check all of your settings, and then click *Next*.

Dynamic IP Address Mode

To setup the Gateway for use with a dynamic IP address connection:

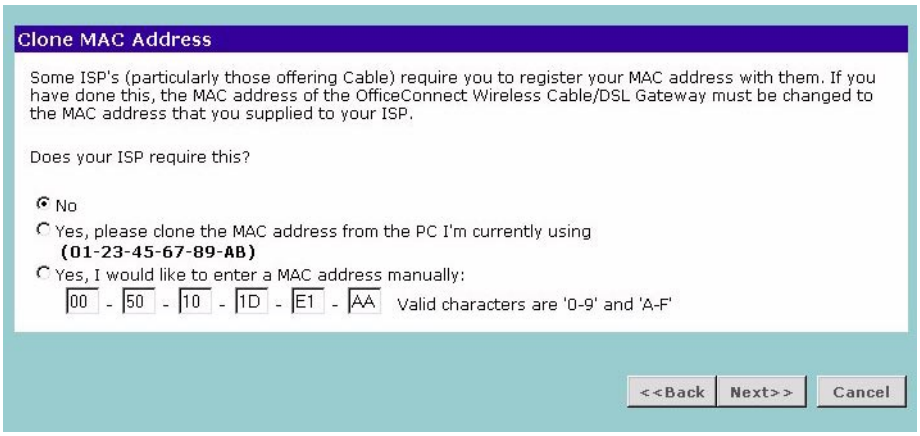
1. Select the *ISP provides configuration dynamically (via DHCP)* radio button (see Figure 15) and then click *Next*.

Figure 17 Hostname Screen



Some ISPs require a host name. If your ISP has this requirement, enter the host name in the *Host Name* text box (Figure 17) and click *Next*.

Figure 18 Clone MAC Address Screen



2. If your ISP requires an assigned MAC address, select the appropriate radio button (*Yes, I would like to enter a MAC address manually*) and manually enter the values for a MAC address if required (Figure 18). If the computer you are using now is the

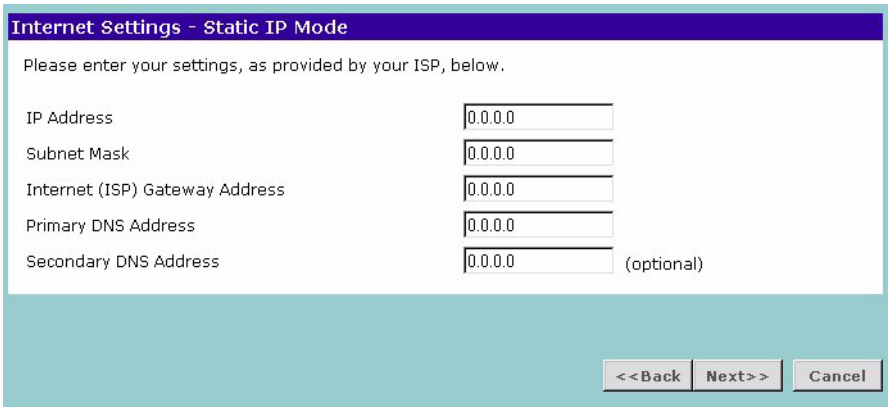
one that was previously connected directly to the cable or DSL modem, choose *Yes, please clone the MAC address*.

Static IP Mode

To setup the Gateway for use with a static IP address connection, use the following procedure:

1. Select the *ISP has provided a static IP address* radio button (See Figure 15) and then click *Next* Figure 19 displays.

Figure 19 Static IP Mode Screen

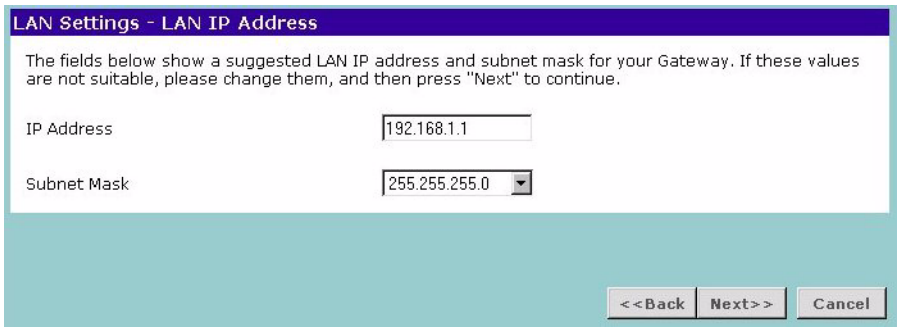


2. Enter your IP Address in the *IP Address* text box.
3. Enter your subnet mask address in the *Subnet Mask* text box.
4. Enter your ISP gateway address in the *Internet (ISP) Gateway Address* text box.
5. Enter your primary DNS address in the *Primary DNS Address* text box.
6. Enter your secondary DNS address in the *Secondary DNS Address* text box.

   This step is optional. Not all ISPs require a secondary DNS address.
7. Check all of your settings, and then click *Next*.

LAN Settings

Figure 20 LAN IP Address Screen

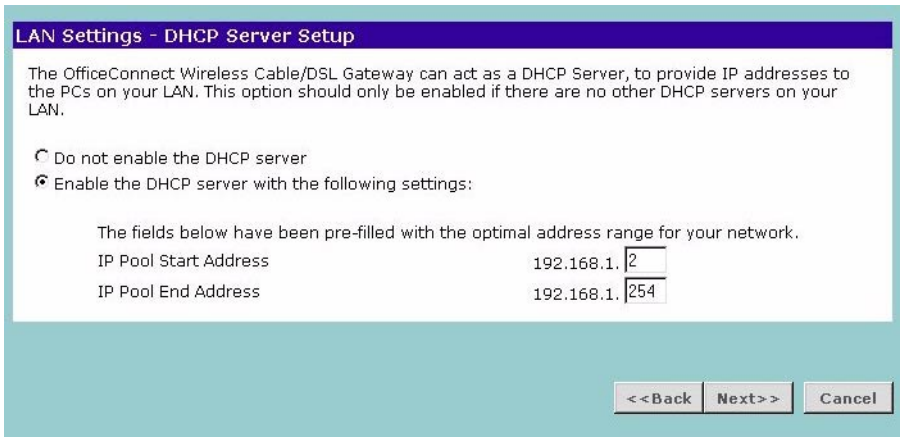


This screen displays a suggested LAN IP address and subnet mask of the Gateway. It also allows you to change the IP address and subnet mask.

DHCP

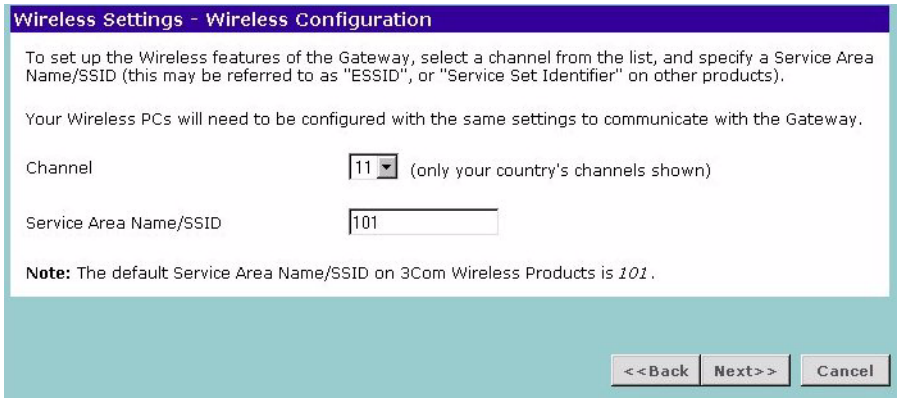
The Gateway contains a Dynamic Host Configuration (DHCP) server that can automatically configure the TCP/IP settings of every computer on your network.

Figure 21 DHCP Server Setup Screen



To activate the DHCP Server option, select *Enable the DHCP server with the following settings:* and specify the IP pool range. The largest available continuous IP pool will be automatically entered; if this is not appropriate, make your required changes. To disable DHCP, select *Do not enable the DHCP server.* Click *Next* when you have finished.

Figure 22 Wireless Configuration Screen



This screen displays a suggested Channel and Service Area Name. It also allows you to change these settings. There are a maximum of 13 channels, the number available to you is dependent on the country you reside in. The Service Area Name default for 3Com products is "101". Up to 32 (case sensitive) characters can be entered for the Service Area Name.

If you are configuring the Gateway from a wireless computer any changes you make to the wireless configuration will result in communication between the Gateway and your computer being lost. This is why 3Com strongly recommends that you configure the Gateway from a wired computer.

It is very important that you set up your wireless clients to use the same Service Area Name or SSID as the one you use on this screen. If your clients use a different Service Area Name then they will not be able to communicate with the Gateway.

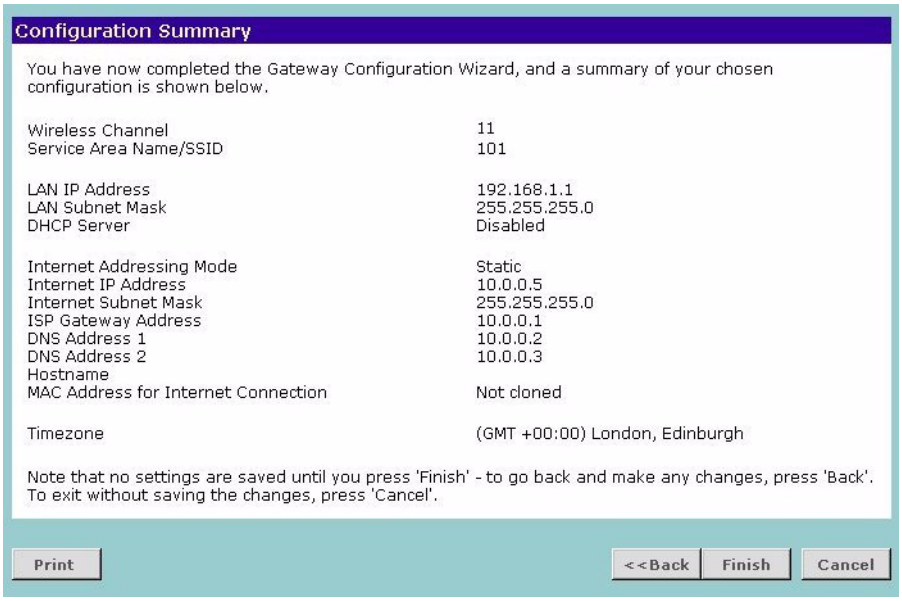
The choice of channel is less important as Clients will generally search all of the available channels. You should however make a note of the channel you select as this may be useful if you experience problems with your clients.

If you have not set up your wireless clients then 3Com recommends that you use these settings initially and then increase security later using Encryption and Connection Control. 3Com also strongly recommends that you change the SSID to something other than the default.

You should also note that the wizard does not enable WEP security as part of the initial installation process. If you have an existing network that already uses WEP Security you will need to set up the Gateway to use the same keys and settings. Continue with the wizard to make the initial settings and then see "Wireless Settings" on page 35 for more details. Once you have completed the setup of your wireless network, 3Com strongly recommends that you enable WEP to improve security.

Summary

Figure 23 Configuration Summary Screen



When you complete the Setup Wizard, a configuration summary will display. Verify the configuration information of the Gateway and then click *Finish* to save your settings. 3Com recommends that you print this page for your records.

If you have made changes to the LAN Settings or wireless configuration options, you may need to reconfigure the computer you are using in order to make contact with the Gateway again.

Your Gateway is now configured and ready for use.

See Chapter 5 for a detailed decription of the Gateway configuration screens.