



# OFFICECONNECT WIRELESS 54MBPS 11G TRAVEL ROUTER 3CRTRV10075/WL-534

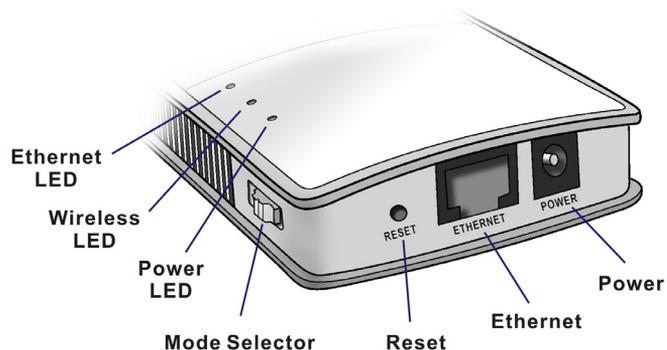
WIRELESS ACCESS POINT • ROUTER • WIRELESS CLIENT BRIDGE

## QUICK START GUIDE

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### Introduction

Please take a few minutes to familiarize yourself with the features and functions of your new 3Com OfficeConnect Wireless 54Mbps 11g Travel Router.



### Physical Features

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Ethernet LED	On - Ethernet connection established. Off - No Ethernet connection. Flashing - Data being transferred.
Wireless LED	On - Wireless interface available. Off - Wireless interface unavailable. Flashing - Data being transferred.
Power LED	On - Power is available. Off - No power.
Mode Selector	This switch has 4 positions: 1 - AP Mode 2 - Router Mode 3 - Setup/Configuration Mode 4 - Client Mode

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Reset Button	This button has 2 functions: <ul style="list-style-type: none"> <li>■ Press &amp; release - restart (reboot)</li> <li>■ Press &amp; hold (for 5 seconds) while powering on - reset all settings to factory defaults.</li> </ul>
Ethernet Port	Connect the LAN cable here. <ul style="list-style-type: none"> <li>■ In AP mode or Router mode, this is connected to the LAN or WAN (Cable/DSL modem).</li> <li>■ In Client mode, this is connected to your PC.</li> </ul>
Power	Connect the supplied power adapter here.

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**Modes** Your 3Com OfficeConnect Wireless 54Mbps 11g Travel Router has four modes:

- Setup/Configuration Mode — used for configuration only.
- AP (Access Point) Mode.
- Router Mode
- Client Mode — Allows a device with an Ethernet port to connect to a wireless network.

The mode is set **ONLY** by the mode selector switch on the side of the Travel Router. (You will need to wait a few seconds after changing modes.)

It is important to understand these different modes, and the benefits of each.

### Setup/Configuration Mode

Use this mode to perform initial configuration of the Travel Router or to perform any required configuration changes. In Setup/Configuration mode, the following settings are always used.

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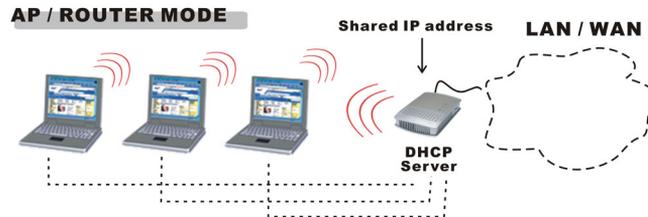
<i>User name</i>	admin
<i>Password</i>	The current password is used. Default password is blank.
<i>IP address</i>	192.168.0.1 (Mask: 255.255.255.0)
<i>DHCP Server</i>	Enabled (for both Ethernet & Wireless)
<i>SSID</i>	3Com is the default name.
<i>Wireless Security</i>	Disabled

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You can connect to the Travel Router using either the Wireless interface or the wired Ethernet connection.

See the later section *Initial Configuration* for details.

## Router Mode



In Router Mode, the Travel Router acts as a DHCP Server, allocating IP addresses for Wireless stations (clients). It also acts as a Wireless NAT Router with SPI/Firewall, sharing the IP address on the Ethernet (LAN/WAN) port with all Wireless clients. (It has 2 IP addresses, one on the LAN/WAN port and another on the Wireless LAN.)

**When Should I use Router Mode?** Use Router mode in any of these situations:

- The Ethernet port is connected to a Broadband modem rather than an Ethernet port.
- You want the wireless clients to be protected by the Travel Router's SPI/Firewall.
- You want the Travel Router to function as a DHCP server for the Wireless clients.
- You want the wireless clients to be in a separate network from the network connected to the Ethernet port.
- You have permission for ONLY ONE (1) user to connect to the LAN or WAN, but you need to connect multiple users. (In Router mode, the IP address on the Ethernet port is shared by all Wireless clients.)

**When Should I NOT use Router Mode?** You can always use Router mode to establish a wireless connection to the LAN or WAN.

However, this mode uses a technology called NAPT (Network Address Port Translation), and NAPT may cause problems with some complex multi-user communication applications. (There is no problem with

common services such as HTTP, FTP, E-mail, etc.) If you have problems, you should try getting permission for all users to connect to the LAN/WAN, so you can use AP mode instead.

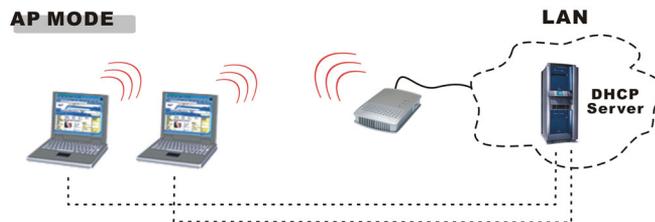


You can connect to the Travel Router, and change its configuration, while it is Router Mode.

The IP address used is the *Wireless LAN* IP address, which can be set on the Router setup screen. The default value is 192.168.0.1 (the same as the Setup/Configuration Mode IP address), but you can change this if you wish.

You **MUST** change the Wireless LAN IP address if the LAN/WAN is using the address range 192.168.0.1 - 192.168.0.254.

### Access Point Mode



In Access Point mode, the Travel Router connects Wireless stations to each other, and to the LAN on the Ethernet port. Because the Travel Router is *transparent* (does not have an IP address) you cannot configure it while in AP mode.

**When Should I use Access Point (AP) Mode?** Use AP mode in any of these situations:

- There are multiple wireless clients, and you have explicit permission for all users to connect to the LAN or WAN to which the Ethernet port is connected.
- You want the wireless clients to use a DHCP server on the network the Ethernet port is connected to.

**When Should I NOT use Access Point (AP) Mode?** Do NOT use AP mode in this situation:

- You do NOT have permission for all of these users to connect to the LAN or WAN on the Ethernet port. In this situation, you should use Router mode.

## Client Mode

### CLIENT MODE



In Client mode, the Travel Router is connected to the Ethernet port of your PC (or other device), and will connect to a Wireless LAN. This has the effect of converting the Ethernet port to a Wireless interface.

## When Should I use Client Mode?

Use Client mode in any of these situations:

- Your PC (or other device) does not have a wireless interface.
- You wish to connect to two (2) Wireless networks simultaneously — one via your normal wireless interface, the other via the Ethernet port and the Travel Router.

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## Initial Configuration

Follow these steps to set up your Travel Router:

- 1 Use the mode selector switch on the side of the Travel Router to select *Setup/Configuration* mode (switch position 3).
- 2 Power up and wait for the Wireless LED to turn on. This indicates the Travel Router is ready.
- 3 Establish a Wired or Wireless connection to the Travel Router.
  - *Wired* — connect a standard LAN cable from your PC's 10/100BASE-T Ethernet port to the Ethernet port on the Travel Router.

- *Wireless* — select the wireless network with the 3Com SSID (3Com is the default SSID).
- 4 Start your Web browser.
  - 5 In the *Location* or *Address* bar, enter the following:

**config.ap**



*This will work only while in Setup/Configuration mode. In AP mode, you cannot connect. In Router mode, you must connect using the Wireless LAN IP address.*

- 6 If the password has been set (by default, it is blank), you will be prompted for the username and password.
  - a Enter the username as `admin`.
  - b Enter the current password.
- 7 You will then see the Main Configuration screen. This screen provides access to the 4 main setup screens:
  - System — settings which are independent of each mode.
  - AP Mode — settings for AP (Access Point) mode.
  - Router Mode - settings for Router mode.
  - Client Mode - settings for Client mode.
- 8 Configure the System screen and the modes you will use.

Use the on-line help as needed.

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## Using Each Mode

To change modes, use the mode selector switch on the side of the Travel Router.

- After moving the switch, you need to wait a few seconds for the Travel Router to become available.
- Changing modes will break all existing Wireless connections. You need to re-connect using the SSID for the current mode. The default SSIDs are:
  - Setup/Configuration Mode: 3Com
  - AP Mode: 3Com
  - Router Mode: 3Com

## Using Router Mode To use Routing Mode:

- 1 Use a standard LAN cable to connect the Ethernet port to the desired LAN or WAN port.



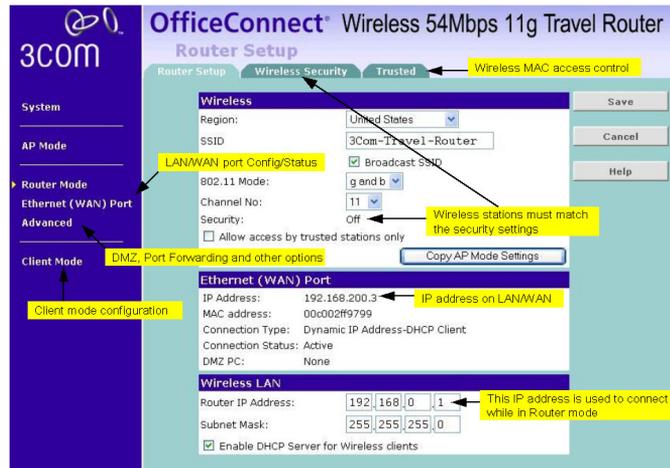
*There is a potential problem if you change the LAN/WAN connection from the Travel Router to your PC, or vice versa. Some cable modems can be locked to the MAC address of the device that it is connected to for the very first time, and this may cause the connection to fail. If this happens, use the Ethernet (WAN) Port screen to change the MAC address to match your PC.*

- 2 Use the mode selector switch on the side of the Travel Router to select Router mode (switch position 2).
- 3 Wait for the restart to be completed, and the Wireless LED to turn On.
- 4 On your PC, select the wireless LAN matching the SSID of the Travel Router in Router mode.
  - If necessary, configure your PC's wireless interface to match the settings of the Router mode.
  - You can check the status of your PC's wireless interface to see that your PC has obtained an IP address. If it has, then the Wireless connection to the Travel Router is working correctly.
- 5 You should now be able to access the LAN or WAN.  
If you can not, you can connect to Wireless LAN IP address of the Travel Router (while still in Router mode) to check its status and configuration.

### Connecting in Router Mode

- 1 Start your Web browser
- 2 In the Location or Address bar, enter **HTTP://** and the current IP address for the Travel Router's Wireless LAN interface, as set on the Router screen. The default value is 192.168.0.1:  
**HTTP://192.168.0.1**
- 3 If the password has been set (by default, it is blank), you will be prompted for the username and password.
  - a Enter username as **admin**.
  - b Enter the current password.
- 4 You will then see the Main Configuration screen (Figure 1). Left-hand side of the main configuration screen contains shortcut to allow you configure *AP, Router, Ethernet (WAN) port, Advanced and Client mode*.

An on-line help is accompanied in each configuration page to assist you in setting up or configuring the Travel Router:



##### 5 Check the Ethernet (WAN) port status and settings.

- If the Travel Router has not obtained a valid IP address, click the *Configure* button and change the settings as required. Check with the LAN administrator if necessary.
- If the LAN/WAN is using the same IP address range as the Wireless LAN, you need to change the Wireless LAN Router IP address to use a different address range.
- If the connection is working, but some applications do not function correctly, you may need to change some Advanced settings. See the on-line help for details of the Advanced settings.

#### Using AP Mode To use AP Mode:

- 1 Use a standard LAN cable to connect the Ethernet port on the Travel Router to the desired LAN.
- 2 Use the mode selector switch on the side of the Travel Router to select AP mode (switch position 1).
- 3 Wait for the restart to be completed, and the Wireless LED to light.
- 4 On your PC, select the wireless LAN matching the SSID of the Travel Router in AP mode.
- 5 If necessary, configure your PC's wireless interface to match the settings of the Travel Router's AP mode.

- 6 You should then be able to connect to the LAN via the Travel Router.
  - You can check the status of your PC's wireless interface to see that your PC has obtained an IP address.
  - Note that this IP address must come from a DHCP server on the LAN; the Travel Router itself is transparent and does not act as a DHCP server in AP mode.

**Using Client Mode** To use Client Mode:

- 1 Use a standard LAN cable to connect the Ethernet port on the Travel Router to your PC.
- 2 Use the mode selector switch on the side on the Travel Router to select Client mode (switch position 4).
- 3 Wait for the restart to be completed, and the Wireless LED to light.
- 4 The Travel Router will then connect, if possible, to the specified Wireless LAN.
  - You cannot connect to the Travel Router while in Client Mode. You must specify the desired Wireless LAN using Setup/Configuration mode.
  - In Client Mode, the Travel Router is transparent; it does not have an IP address.
- 5 You can check the Properties of your PC's Ethernet connection to see if it has obtained a valid IP address:
  - If using Infrastructure mode (connecting to an Access Point), the IP address must be a valid IP address on the LAN to which the Access Point is connected.
  - If using Ad-hoc mode, the IP address should be self-assigned (auto-configuration). If other PCs in the Ad-hoc Wireless LAN behave the same way, everyone will have compatible IP addresses.

## Regulatory Compliance Notices

### FCC Part 15 Notice (Applicable to use within the USA)

**NOTE:** This product contains encryption. It is unlawful to export out of the U.S. without obtaining a U.S. Export License.

**CAUTION:** FCC Radio-Frequency Exposure Notice

This device generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure compliance requirements, a separation distance of at least 2.5 cm (1.0 inch) must be maintained between the antenna of the device and all persons.

This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate 3Com's warranty and all applicable regulatory certifications and approvals.

All wireless products covered by this Getting Started Guide have been tested to the FCC exposure requirements (Specific Absorbtion Rate).

### Unintentional Radiator

**WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device as applicable, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.
  - The user may find the following booklet prepared by the Federal Communications Commission helpful: *The Interference Handbook*
  - This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

### Manufacturer's Declaration of Conformity

**3Com Corporation**, Corporate Headquarters, 350 Campus Drive, Marlborough, MA 01752-3064, USA

Declares that the Product:

Date: September, 2004

Brand Name: 3Com Corporation

Model Number: 3CRTRV10075

Equipment Type: OfficeConnect Wireless 54Mbps 11g Travel Router

Complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation..

3Com Corporation	3CRTRV10075
	Tested To Comply
	With FCC Standards
FOR HOME OR OFFICE USE	

### Industry Canada Notice (Applicable for use within Canada)

This device complies with Canadian RSS-210.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website [www.hc-sc.gc.ca/rpb](http://www.hc-sc.gc.ca/rpb).

### Avis de conformité à la réglementation d'Industrie Canada

Cet appareil est conforme à la norme CNR-210 du Canada.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, cet appareil doit être utilisé à l'intérieur seulement et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal.

L'installateur du présent matériel radio doit s'assurer que l'antenne est située ou pointée de manière à ce que cette dernière n'émette pas de champs radioélectriques supérieurs aux limites spécifiées par Santé Canada pour le grand public; consulter le Code de sécurité 6, disponible sur le site Web de Santé Canada, à l'adresse suivante: [www.hc-sc.gc.ca/rpb](http://www.hc-sc.gc.ca/rpb).

### Industry Canada (IC) Emissions Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

### Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### Safety Notice

This device has been tested and certified according to the following safety standards and is intended for use only in Information Technology Equipment which has been tested to these or other equivalent standards:

UL Standard 60950 (3rd Edition)/ CSA C22.2 No. 60950  
IEC 60950  
EN 60950

European Community CE Notice

Marking by the symbol



indicates compliance with the essential requirements of Directive 73/23/EC and the essential requirements of articles 3.1(b), 3.2 and 3.3 of Directive 1999/5/EC. Such marking is indicative that this equipment meets or exceeds the following technical standards:

- EN 300 328-2 — Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2,4GHz ISM band and using spread spectrum modulation techniques
- ETN 301 489-17: V.1.1.1 (09-2000) — Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Wideband data and HIPERLAN equipment
- EN 60950 — Safety of information technology equipment, including electrical business equipment.

Due to frequency restrictions, it is necessary to select your country before using this radio device. Refer to the Release Notes supplied with your unit for details.

OfficeConnect Wireless 54Mbps 11g Travel Router  
3CRTRV10075/WL-534

Quick Start Guide

Published September 2004

## **3Com Corporation**

### **350 Campus Drive, Marlborough, MA 01752-3064**

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It is the policy of 3Com Corporation to be environmentally-friendly in all operations. To uphold our policy, we are committed to:

Establishing environmental performance standards that comply with national legislation and regulations.

Conserving energy, materials and natural resources in all operations.

Reducing the waste generated by all operations. Ensuring that all waste conforms to recognized environmental standards. Maximizing the recyclable and reusable content of all products.

Ensuring that all products can be recycled, reused and disposed of safely.

Ensuring that all products are labelled according to recognized environmental standards.

Improving our environmental record on a continual basis.

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3Com processes allow for the recovery, reclamation and safe disposal of all end-of-life electronic components.

#### **Regulated Materials Statement**

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