3Com®
Bluetooth User Guide

http://www.3com.com/
http://www.3com.com/productreg

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3Com Corporation n 5400 Bayfront Plaza n Santa Clara, California n 95052-8145

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1 INTRODUCTION

Overview

The *3Com Bluetooth Device* is based on the Bluetooth wireless standard, which allows you to get reliable, cable-free connectivity to all personal mobile devices such as laptop and desktop computers, Palm computers, cellular phones, and other devices, that use the Bluetooth standard.

Wireless technology opens many new possiblities for personal mobile devices. Wireless e-mail, LAN/WAN internet access, faxes, file transfers, and Palm HotSyncs are just a few examples of what can be done using this new cable-free standard.

The 3Com Bluetooth Device is configured using 3Com Bluetooth Connection Manager (see 3Com Bluetooth Connection Manager). Connection Manager is used for configuring the 3Com Bluetooth Device and viewing other Bluetooth devices. It must be running to use the 3Com Bluetooth Device. Connection Manager is installed automatically (see Installing Your 3Com Bluetooth Device) and is loaded at Windows startup. It remains minimized as a system tray icon until you double-click the icon. Once you open Connection Manager you can configure your 3Com Bluetooth Device and connect to other Bluetooth devices.

Bluetooth Device Installation CD

The following contents are provided on the *3Com Bluetooth Device Installation CD*:

- Windows 95, 98 and 2000 setup program and drivers
- Windows NT 4.0 setup program and drivers
- Windows Millenium Edition (Windows Me) setup program and drivers
- 3Com Bluetooth Connection Manager
- README.TXT file with updated information about your 3Com Bluetooth Device
- This *3Com Bluetooth Device User Guide*
- Other supporting files

Bluetooth Device Features

Bluetooth Compliant

Your 3Com Bluetooth Device is compliant with the latest wireless technology standards:

- Bluetooth 1.0b Specification
- PC Specification version 1.1
- PC Common Class Specification version 1.0
- Designed to meet worldwide regulatory approvals

Radio Connections

For wireless connecting, the 3Com Bluetooth Device uses a reliable radio to trasmit data wirelessly. The onboard radio uses the following settings:

- Radio Transmit Power: 0 dBm (1mW)
- Radio Sensitivity: -70dBm
- Frequency Range: 2.402--2.480 GHz

Optimized Antenna

The 3Com Bluetooth Device's antenna is integrated into the PC or USB card. This optimized antenna provides powerful performance in all directions.

Windows Support

- Wake up on incoming call
- Windows Power Management Support
- Windows Plug-and-Play Support

Software and Firmware Upgradeable

Your 3Com Bluetooth Device can be updated to correct problems without having to return your card to 3Com. Current software and firware upgrades and the instructions to use them are on the BBS, the 3Com Web site (*www.3com.com*), and online services.

If your device is functioning properly, there is usually no need to upgrade it. In any case, we recommend upgrading only under the direction of a Customer Support Applications Engineer.

2 INSTALLING YOUR 3COM BLUETOOTH DEVICE

Overview

To install your 3Com Bluetooth Device, Windows 95/98, Windows 2000, Windows Millenium Edition (Windows Me), or Windows NT 4.0 must be running on your computer.

In Windows 95, 98, 2000, Me, and NT 4.0, you must first run the 3Com installation software. In addition to installing the required files, the install program automatically does all of this for you:

- Updates Windows and other files for optimal use with your Bluetooth Device
- Installs 3Com Bluetooth Connection Manager
- Automatically identifies and selects the resources on your computer that are necessary for your device
- Copies the "Uninstall" files to your hard drive
- At your option, installs this *3Com Bluetooth Device User Guide*

Windows 95, 98, 2000, and Me

Installing the Device

NOTE: *If you do not have a CD-ROM drive, you can create your own set of installation diskettes by using the CD-ROM drive on another computer. Insert the Installation CD and choose Create Diskettes. Follow the prompts to create your own set of installation diskettes. You will need several blank diskettes when creating your own set.*

1. With your computer running and Windows active, insert the *3Com Bluetooth Installation CD* into your notebook.

   If AutoPlay is active, the Master Installer window appears. If the Master Installer window does not appear, go to your CD-ROM drive and launch **`setup.exe`**.
2. Click *Install Hardware*.
3. Click *Continue*.
4. Follow the prompts to complete installation of your 3Com Bluetooth Device.

   Your computer will go through a brief installation process. When this process completes, your device is installed.

Uninstalling

In Windows 95/98 and Windows 2000, you can uninstall your Device any time following the installation; however, any changes to the system files made between the

install and the uninstall will be lost. The files that existed before the install will be restored.

1 Click *Start*.

2 Click *Programs*.

3 Click *3Com Utilities*.

4 Choose *Uninstall*.

5 Follow the prompts.

6 When the Uninstall is complete, remove the 3Com Bluetooth Device and restart your computer.

The Uninstall removes desktop icons, registry entry files, the user guide, and files used by the Device.

Windows NT 4.0

NOTE: *If you do not have a CD-ROM drive, you can create your own set of installation diskettes by using the CD-ROM drive on another computer. Insert the Installation CD and choose Create Diskettes. Follow the prompts to create your own set of installation diskettes. You will need several blank diskettes when creating your own set.*

1 Remove your Hardware from its plastic traveling case and insert it into the appropriate slot in your computer.

2 Restart your computer.

3 Go to your CD ROM drive and launch **`setup.exe`**.

4 Follow the prompts as they appear.

5 Select *Start>Settings>Control Panel>*.

6 With the installation CD or disk in the slot, click *Have disk*.

7 Make sure the path to the CD or disk is correct and click *OK*.

8 Follow the remaining prompts to complete the installation.

Your computer will go through a brief installation process. Once this process completes, your 3Com Bluetooth Device is installed.

3 3Com Bluetooth Connection Manager

Overview

3Com Bluetooth Connection Manager is used for configuring the 3Com Bluetooth Device and connecting to other Bluetooth devices. Connection Manager must be running to use the 3Com Bluetooth Device.

Installation

3Com Bluetooth Connection Manager is installed automatically during the installation process (see Installing Your 3Com Bluetooth Device). Once installed, it is automatically loaded at Windows startup and remains minimized as a System Tray icon until you double-click the icon and open the Connection Manager main window. When Connection Manager is open, you can configure your Bluetooth Device and connect to other Bluetooth devices. Bluetooth Connection Manager must be running to use the 3Com Bluetooth Device, however, it does not need to be open, only active in the System Tray.

Illustration of the System Tray with Bluetooth icon here!

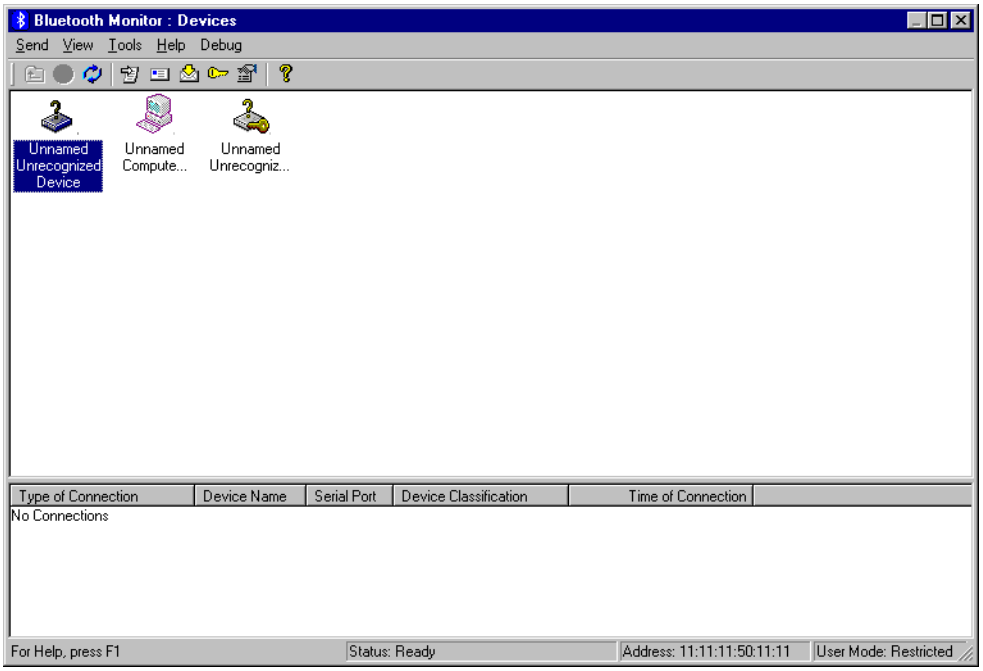
Features

Bluetooth Connection Manager displays the Bluetooth devices that are available for connection, as well as the Bluetooth devices that are already connected to your computer. Connection Manager allows you to do the following:

- Configure the 3Com Bluetooth Device
- See and select Bluetooth devices within radio frequency (RF) range
- See the connection status of Bluetooth devices within RF range
- Connect to and disconnect from remote Bluetooth devices and services
- Enter, update, delete, retrieve, display, and store Bluetooth data
- See Bluetooth-related information, warnings, and error messages
- Collect, log, and analyze Bluetooth data
- Access Bluetooth applications and the Connection Manager Help System

Main Window

When you double-click Connection Manager in the System Tray, the main window appears. The main window displays icons that represent remote Bluetooth devices such as a desktop computer, Palm-size computer, cordless phone, or notebook computer. It also shows connection and status information. The main menu at the top of the main window contains all of the options that are associated with Connection Manager. Many of these options are also found on the Connection Manager Toolbar that appears under the main menu.



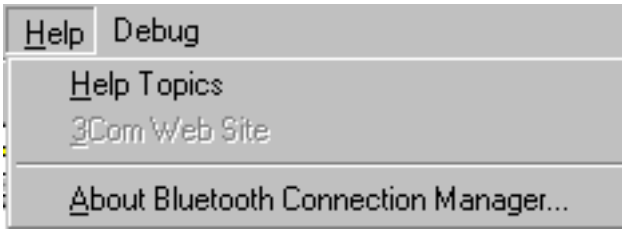
Using Connection Manager

Connection Manager has a complete and informative help system. A help button is found in each Connection Manager window that links directly to information about that dialog in the help system. Tutorial topics are also included in Connection Manager's help system that take you step by step through making a network connection, making a fax connection, sending a file, sending a business card, and setting up a Hotsync for a Personal Digital Assistant (PDA). The help system also contains tutorial topics to help you understand how security works and how serial connections work.

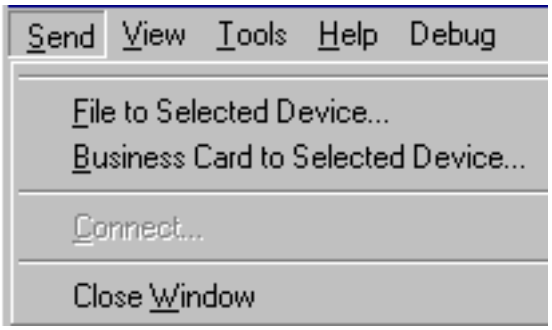
Connection Manager Help System

You can access the Connection Manager help system in several ways:

1 Click *Help* on the main window menu bar, and select *Help Topics*.



2 Click *Send* from the main window, and select *Connect...*.



To learn the most about 3Com Bluetooth Connection Manager, start by reading the tutorials in the help system.

Other Applications

Bluetooth diagnostics and the Control Panel applet are also automatically loaded during installation.

Bluetooth Diagnostics

Bluetooth diagnostics provides status information about the 3Com Bluetooth Device and indicates if it is working properly. If you have problems with your Bluetooth Device, Bluetooth Diagnostics provides 3Com customer support information about the device that helps determine that the device is working properly, or what is causing a problem.

Control Panel Applet

The Control Panel applet is installed into the Windows System folder. The Control Panel applet allows you to configure settings for the Bluetooth Device through a Control Panel icon that appears after installation. You can access the Bluetooth Control Panel in one of three ways:

- Select the Bluetooth icon in the Windows Control Panel
- Select Options from the Tools menu in the Connection Manager main window
- Left-click the Bluetooth icon in the System Tray

4 TROUBLESHOOTING

Overview

Under normal operating conditions, your 3Com Bluetooth PC Card will provide reliable, trouble-free operation in a variety of environments; however, occasionally a problem may arise. This section will help you resolve those problems. Locate the problem in the section labeled “Message” or “Symptom”, then read and implement the “Possible Solution”.

Bluetooth Device Installation

Message:

Possible Solution:

Bluetooth Device Use

Symptom:

Possible Solution:

Symptom:

Possible Solutions:

Symptom:

Possible Solutions:

Symptom:

Possible Solution:

REGULATORY INFORMATION

CAUTION: *FCC Radio-Frequency Exposure Notice*

This device generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 2.5 cm.

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.

FCC PART 15 NOTICE (APPLICABLE TO USE WITHIN THE USA)

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 undersired operation.

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.

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

605 North 5600 West

Salt Lake City, UT 84116

(800) 527-8677

Declares that the Product:

Date: 23 June 2000

Brand Name: 3Com Corporation

Model Number: 3CRWB60

Equipment Type: Bluetooth Wireless PC Card

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.

3Com Corporation	3CRWB60
FC	Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE	

INDUSTRY CANADA NOTICE (APPLICABLE TO USE WITHIN CANADA)

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

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.

AVIS DE CONFORMITÉ À LA RÉGLEMENTATION D'INDUSTRIE CANADA

Cet appareil numérique de la classe B est conform à la norme NMB-003 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 êtra placé loin des fenêtres afin de fournir un écran de blindage maximal.

SAFETY

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 and certified to these or other equivalent standards:

- *UL Standard 1950 (3rd Edition)/ CSA C22.2 No. 950*
- *IEC 60950*
- *EN 60950*

EUROPEAN COMMUNITY CE NOTICE

Marking by the symbol CE0682! indicates compliance of this equipment to the R&TTE Directive 1999/5/EC.Such marking is indicative that this equipment meets or exceeds the following technical standards:

- ETS 300 328 - 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
- ETS 300 826 - Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for 3,4 GHz wideband transmission systems and High PErformance Radio Local Area Network (HIPERLAN) equipment
- ES 59005 - Considerations for the evaluation of human exposure to electromagnetic fields (EMFs) from mobile telecommunication equipment (MTE) in the frequency range 30 MHZ - 6 GHz
- EN 55022 - Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment. (CISPR 22 Class B).
- EN 60950 - Safety of information technology equipment, including electrical business equipment

VCCI CLASS B

This is a Class B product based on the standard of the Voluntary Control Council for Interference from information Technology Equipment (VCCI). If this product is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスＢ情報技術装置
家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受
と、受信障害を引き起こすことがあります。

従って正しい取り扱いをして下さい。

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