CF and USB Bluetooth Adapter Manual

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1.Introduction:

Bluetooth is an open specification for a cutting-edge technology that enables short-range wireless connections between desktop and laptop computers, personal digital assistants, cellular phones, printers, scanners, digital cameras and even home appliances — on a globally available band (2.4GHz) for worldwide compatibility. In a nutshell, Bluetooth unplugs your digital peripherals and makes cable clutter a thing of the past. Now you can connect your PDA or PC to bluetooth™ enabled mobile phone with this Bluetooth™adapter.

You can access e-mail & Internet no matter where you are with just a little help from your bluetooth™ mobile phone.

 Plus, when you are back in the office, you can hook yourself up to your office network as well as communicate with other Bluetooth™-enabled devices..

Package

-One USB or CF Bluetooth adapter   -One driver and software disk -This user manual

2.Features

·Bluetooth v1.1 compliance

·Full speed USB v1.1 Interface ·Wireless communication within a radius of 32 Feet (10 Meters) ·Connect up to 7 different bluetooth enabled devices ·Encryption and authentication ensure safe, secure communications ·Low power consumption

3.Specifications

·Main chip : CSR BlueCore 02

·Protocol : Bluetooth 2.4 GHz ISM band frequency hopping ·Data Rate : 721 kbps ·Connect up to 7 devices in a Piconet ·Antenna: Integrated inside the adapter ·0dBm(Class 2) bluetooth radio ·Connections within ranges up to 32 feet (10 meters) ·Sensitivity : -80dbm at 0.1% Bit

Error Rate (BER) ·Security : encrypted link, authentication ·Bluetooth profile support includes: Generic access profile (GAP), Serial port profile (SPP), Service discovery app profile (SDAP), Generic object exchange profile (GOEP), Object push profile (OPP), File transfer profile (FTP), Dial-up network profile (DUN), LAN access profile (LAP), Fax profile (FAX), ActiveSync **3.1. Mechanics** USB Bluetooth Dimension: 58.6 x 19.8 x 8.1 mm (L x W x H) CF Bluetooth Dimension: 47.3 x 42.9 x 4.58 mm (L x W x H) **3.2. Certification** FCC, CE, BQB **3.3. Environmental Operating Ranges** ·Temperature: 0 ~ 50% ·Humidity: 10 ~ 90% **3.4. Power Consumption** ·Typical: 40mA/5V ·Maximum: 90mA/5V **3.5. LED Indication:** ·CF adapter LED: Power on **3.6. Drivers support:**

Windows 98 SE, Windows Me, Windows 2000, Windows XP

4. Setup for Windows 98/2000/ME/XP

For CF Bluetooth adapter please install the driver before installing Bluetooth software, the driver can be located in BTCF of the driver CD.

For USB Bluetooth adapter please install Bluetooth software before inserting the USB adapter.
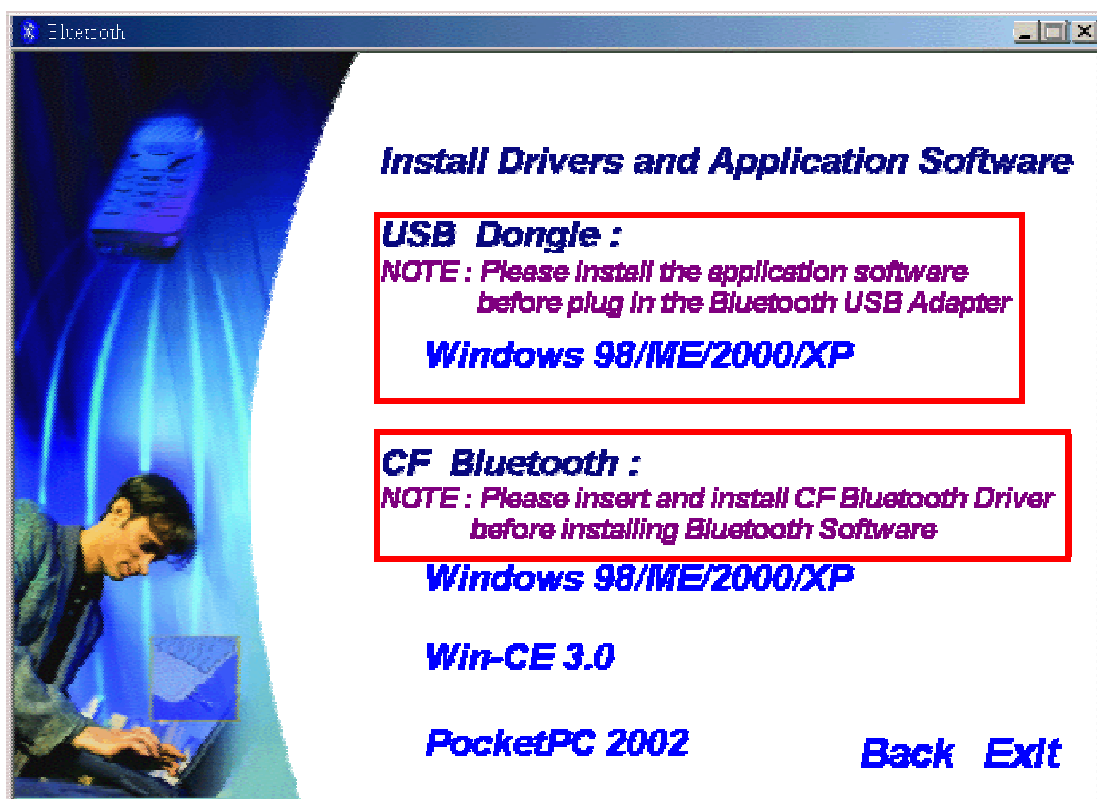
4.1 Installing Bluetooth for Windows

1. Place installation disk into PC and setup should launch automatically.

If setup does not launch, use Windows Explorer to navigate to the appropriate CDROM drive and run **"bsetup"**.

2. Place select your device and O.S..

For CF Bluetooth adapter please install the driver before installing Bluetooth software, the driver can be located in BTCF of the driver CD.

4.1.1 SYSTEM REQUIREMENTS

Bluetooth software for Windows runs under Microsoft Windows 98 Second Edition (SE), Windows 2000,

 Windows Millennium Edition ("Me") and Windows XP.

4.1.2 UNINSTALL PREVIOUS VERSION OF Bluetooth software

Any previous version of the Bluetooth software must be uninstalled before installing an upgraded version.

There are two ways to remove Bluetooth software:

1. The InstallShield Wizard automatically uninstalls the previous version when a

new version is installed.

2. Manually uninstall Bluetooth software by completing these steps:

a) Close any open applications.

b) From the Windows taskbar, click **Start** followed by **Settings** followed by

Control Panel.

c) Double-click **Add/Remove Programs**.

d) On the *Add/Remove Programs* window, select the Bluetooth

Software entry. Scroll down if necessary.

e) Click the **Change/Remove** button (Windows 2000). The InstallShield Wizard is started.

f) Click **OK** on the *Confirm File Deletion* window to remove the Bluetooth Software and all of its components.

g) When prompted, click **Restart** and then click the **Finish** button.

4.1.3 INSTALL Bluetooth software

4.1.3.1 Windows 98 Second Edition (SE) and Windows Millennium Edition (Me)

Bluetooth software requires that a number of Microsoft Windows networking components be installed before Bluetooth software can be successfully configured.

If Windows 98SE or Windows Me was installed without the networking components, have the MS Windows CD available during the Bluetooth software installation process.

Under normal Windows 2000 installations you should not be prompted for the Windows CD, however you may want to have it on hand.

4.1.3.2 InstallShield Wizard

Installing Bluetooth software is an automated process made easy by the use of the InstallShield Wizard. You will need to:

* Read and acknowledge the License Agreement.
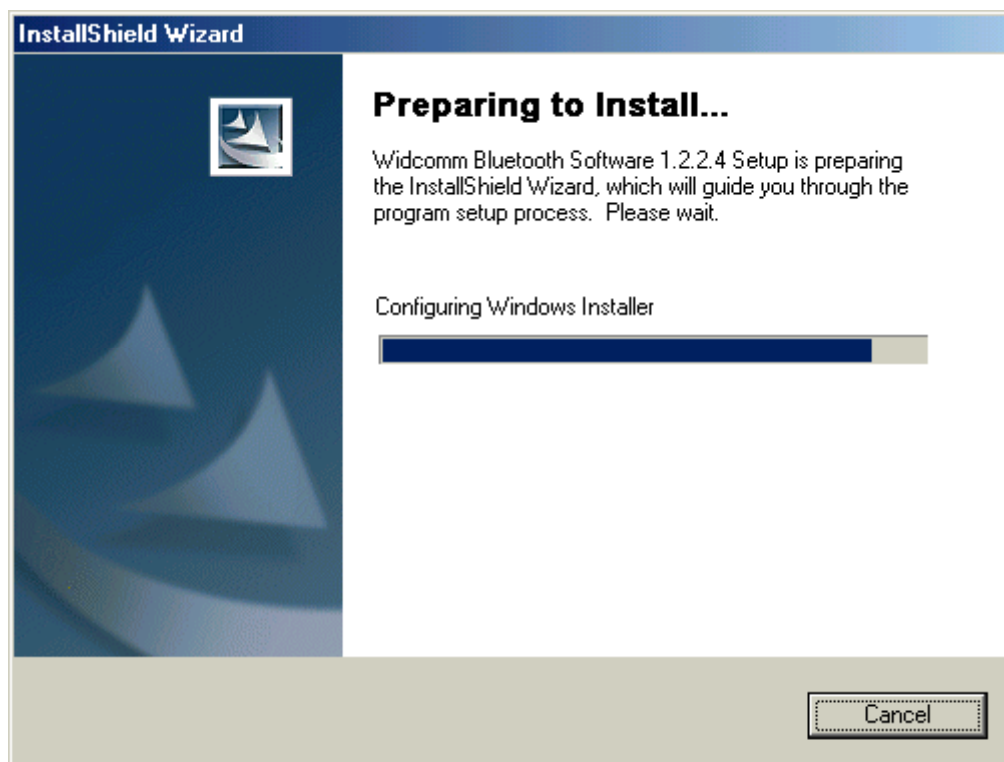
* Fill in some device information.

* Make a few choices

Bluetooth software Installation Instructions Section 1—Installing Bluetooth software

Complete these steps to install Bluetooth software:
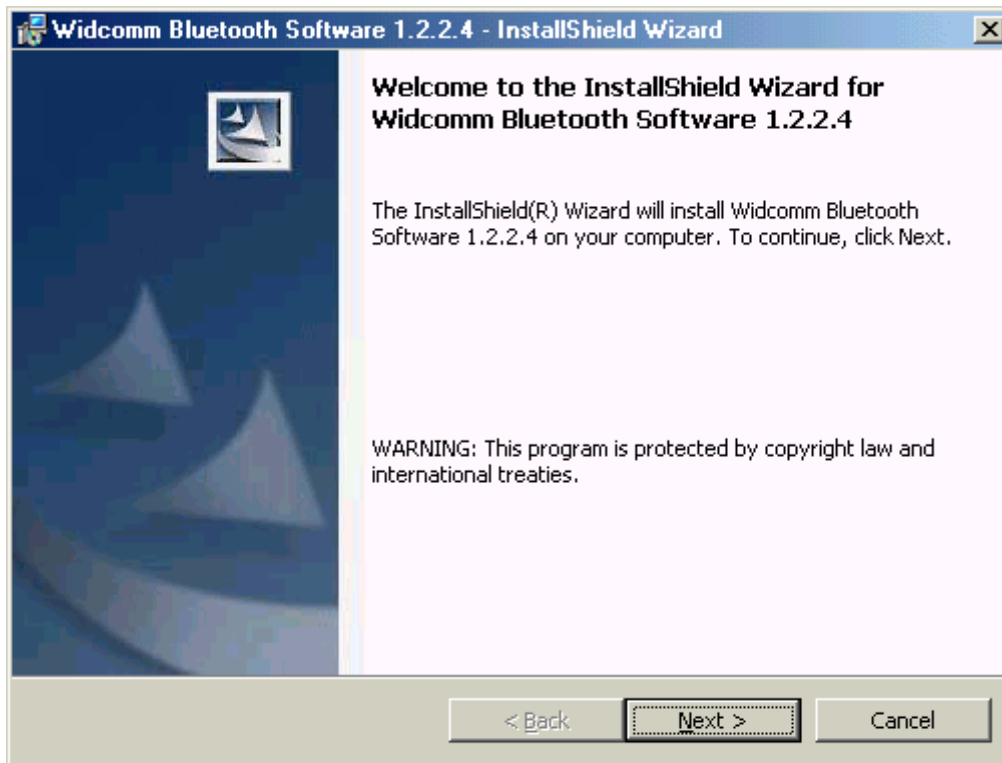
1. Exit all applications.

2. Insert the Bluetooth software CD. The auto-run option will start and the InstallShield Wizard setup dialog box (Figure 1) is displayed. If auto-run does not occur, manually start the setup.
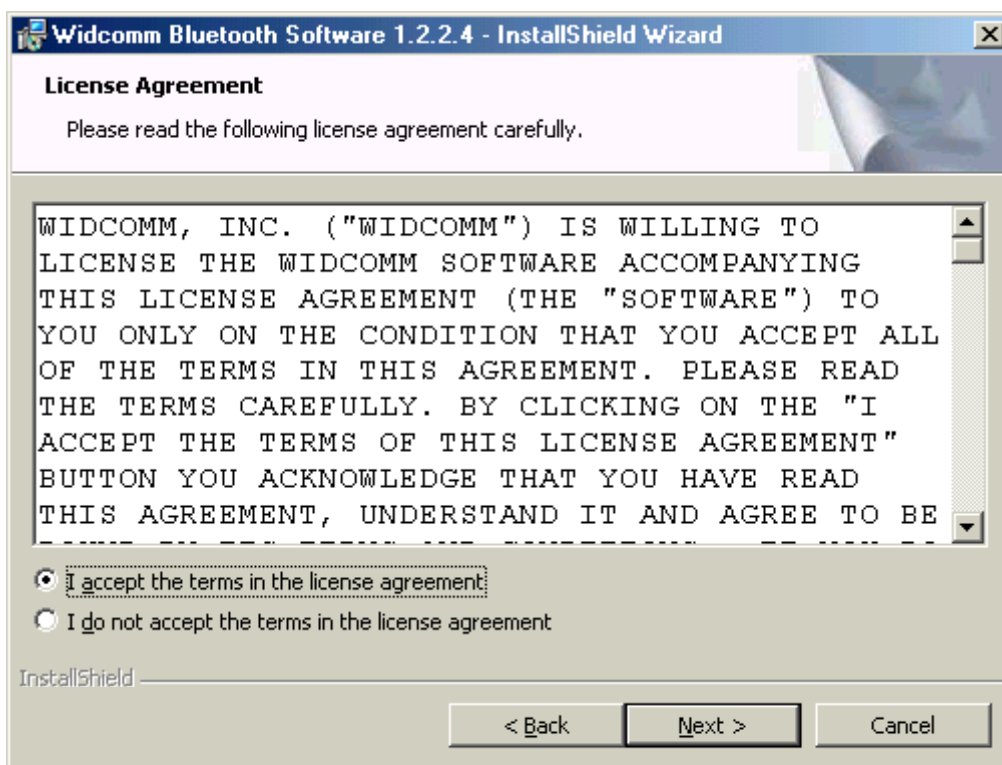

(Figure 1)

3. Follow the instructions on the screen:

a) On the *Welcome* screen (Figure 2), click the **Next** button.

(Figure 2)

c) When the *License Agreement* screen is displayed, read the License Agreement, then click the radio button (Figure 3) to the left of **"I accept the terms in the license agreement"** and click the **Next** button.
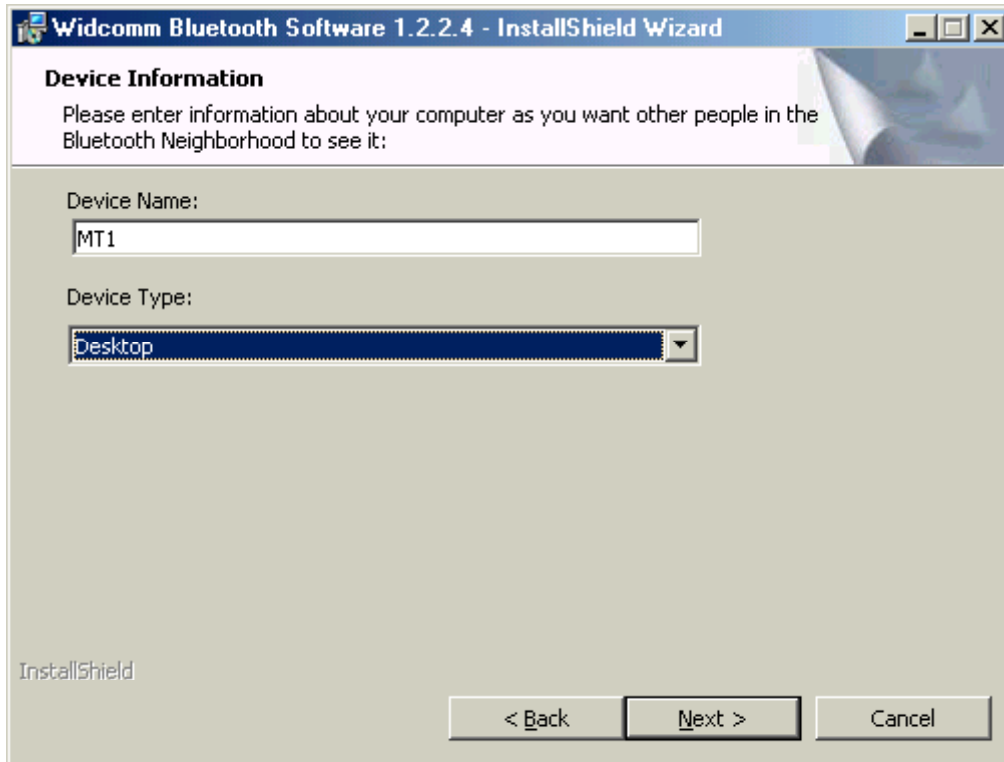

(Figure 3)

d) On the *Device Information* screen (Figure4), enter the required information:
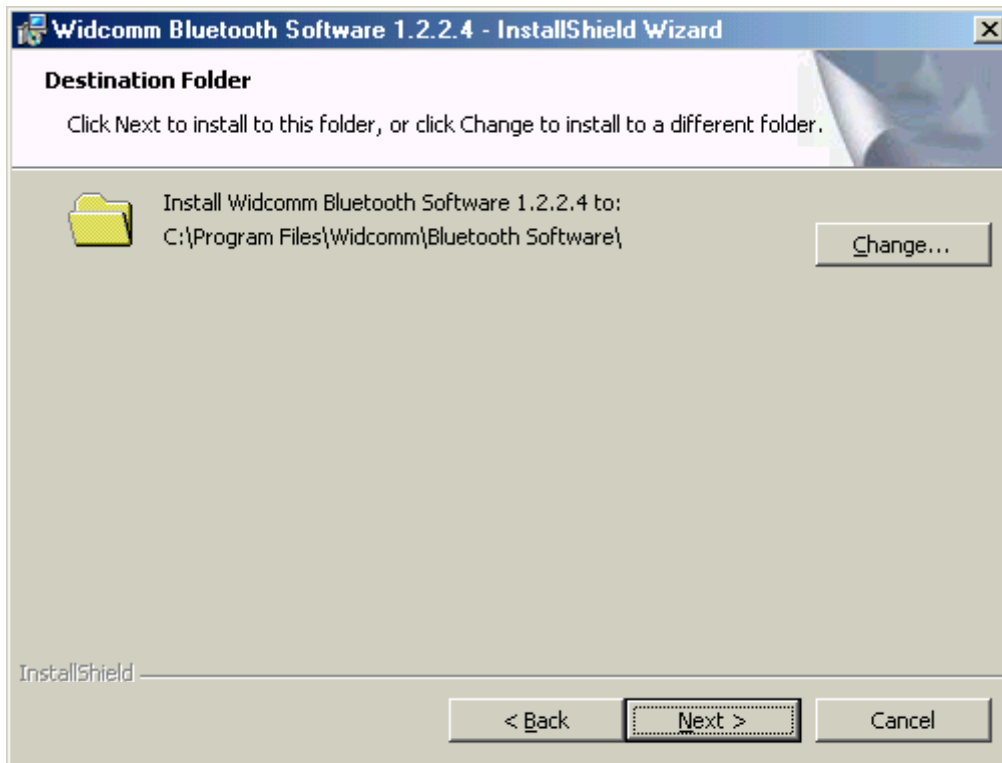
* A Device Name, for example, *MT1*.

* Device Type click the down arrow and choose **Desktop** or **Laptop** from the drop-down list. The device type can be changed after the installation process through the Bluetooth software Configuration Panel.
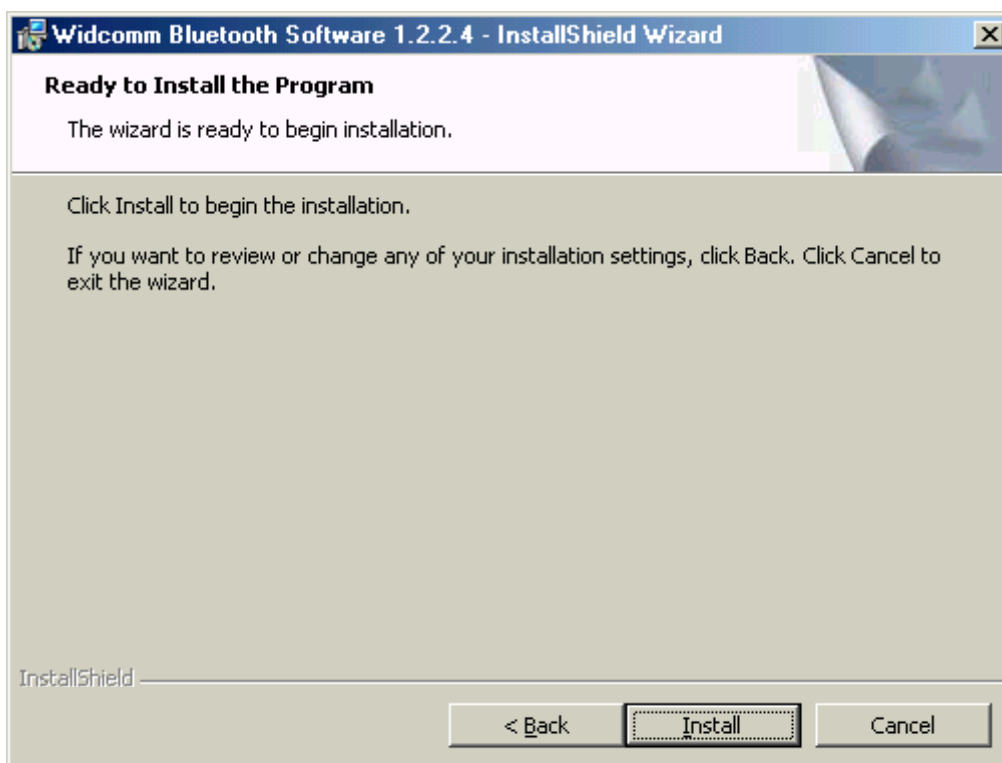
* Click the **Next** button.

(Figure4)

f) On the *Destination Folder* screen (Figure 5), click the **Change** button to browse to a new destination folder for the Bluetooth   software (Figure 5).Otherwise, click the **Next** button to accept the default folder.
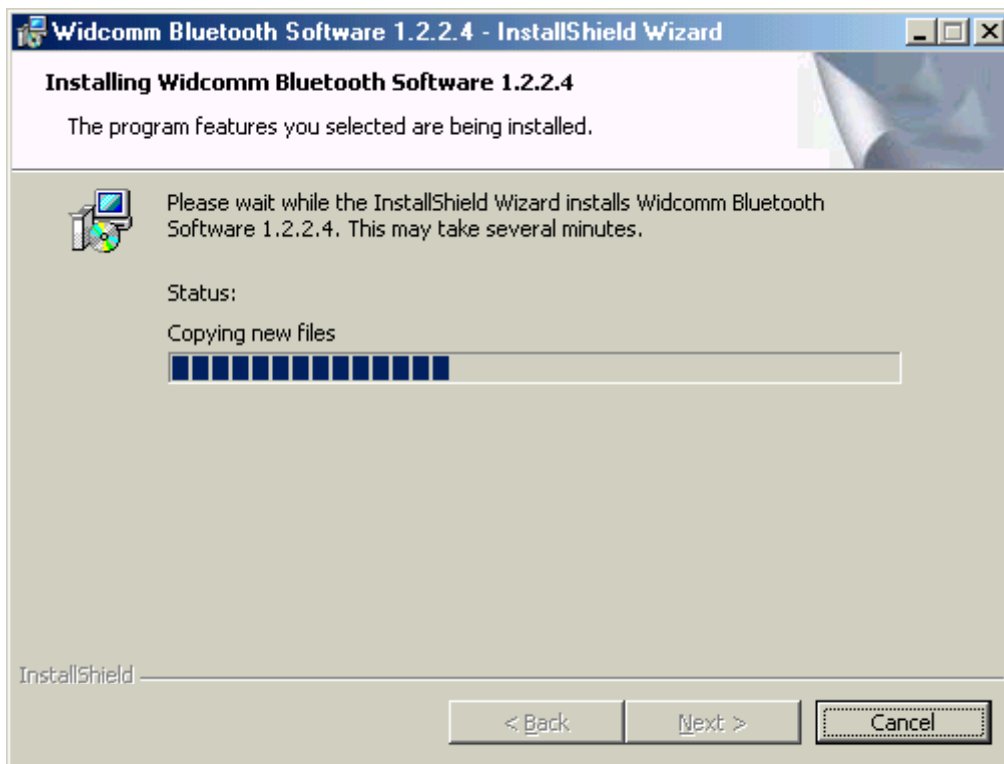
(Figure 5)

g) The system is ready to install the Bluetooth software. If you need to review or change any settings, click the **Back** button. Click the **Cancel** button to exit the Wizard. Otherwise, click the **Install** button (Figure 6).
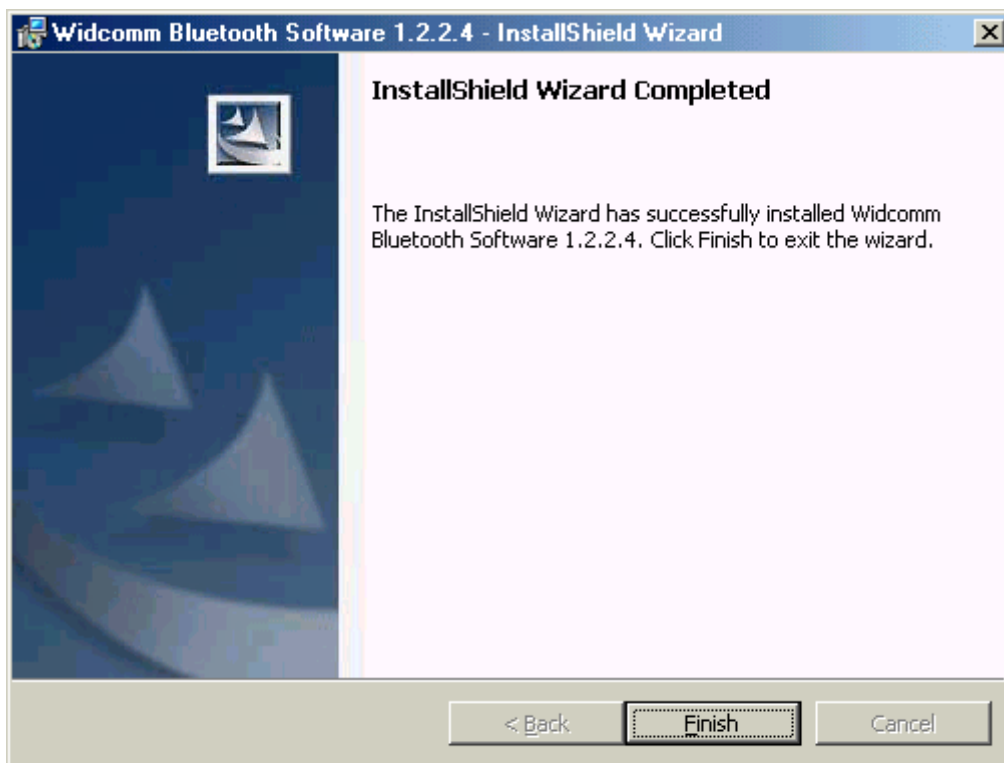

(Figure 6)

The *Installing Bluetooth Software* screen (Figure 7) displays the installation progress. If

prompted to insert the Windows CD, do so and follow the on-screen instructions.
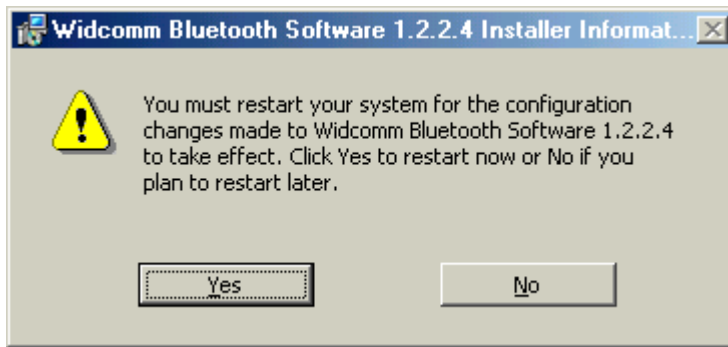

(Figure 7)

h) When the installation has complete, click the **Finish** button (Figure 8) on the *Completed* screen.

(Figure 8)

g) And please click **Yes** to restart your computer, if you plan to restart later please click

No.   (Figure 9)

(Figure 9)

After restart please insert your bluetooth adapter in to your PC or Notebook USB port system will automatically install driver.

For more information of Bluetooth software Configuration & User's Guide, please check the readme file or application note in the driver and software CD!

5. Troubleshooting

5.1 CANNOT CONNECT TO A PAIRED DEVICE:

Paired devices are always displayed in My Bluetooth Places, even if the remote device is out of range or not powered up.

Verify that the remote member of the pair is within radio range and powered up and then attempt the connection again.

5.2 CANNOT DISCOVER SERVICES ON AN UN-PAIRED REMOTE DEVICE:

The remote device may not be powered up or may be out of range.

* Verify that the remote device is powered up.

* Verify that the remote device is in Connectable mode (Bluetooth Configuration Panel > Accessibility tab).

* Perform a Search for Devices to verify that the device is within range.

5.3 DIAL-UP NETWORKING SERVICE DOES NOT START:

The Dial-up Networking service will not start unless a properly configured modem is attached to the server.

* Verify that the modem is usable as a local device from the server.

* In the Bluetooth Configuration Panel, Local Services tab, double-click the Dialup

Networking service:

* Click the down arrow in the Modem field and select the modem that will be used to dial out

* Click the OK button

* Click the OK button to close the Bluetooth Configuration Panel.

5.4 HOW DO I DETERMINE THE BLUETOOTH DEVICE ADDRESS (BDA) OF MY HARDWARE DEVICE?

In the Bluetooth Configuration Panel, on the Hardware tab, in the Devices section, select the device you want to determine the address of. In the Device Properties section of the dialog box, the fourth entry, Device Address, is the BDA of the selected Bluetooth device.

5.5 HOW DO I DETERMINE THE VERSION NUMBER OF THE BLUETOOTH SPECIFICATION THAT THE HOST CONTROLLER INTERFACE (HCI) COMPLIES WITH?

In the Bluetooth Configuration Panel, on the Hardware tab, in the Device Properties section, the fifth entry provides Bluetooth Specification compliance information for the Host Controller Interface.

The sixth entry contains the Specification Revision information for the Host Controller Interface, if appropriate.

5.6 HOW DO I DETERMINE THE VERSION NUMBER OF THE LINK MANAGER PROTOCOL (LMP)?

In the Bluetooth Configuration Panel, on the Hardware tab, in the Device Properties section, the seventh entry provides Link Manager Protocol version number information. The eighth entry contains the Link Manager Protocol sub-version number information, if appropriate.

5.7 HOW do I FIND INFORMATION ABOUT THE BLUETOOTH HARDWARE ATTACHED TO MY COMPUTER?

In the Bluetooth Configuration Panel, select the Hardware tab.

5.8 HOW DO I TEST A NETWORK ACCESS CONNECTION?

If the client is hardwired to the LAN, unplug the hardwired connection to ensure that the test checks the wireless connection rather than the hardwired connection. If the server has access to the Internet, open a browser on the client and connect to the World Wide Web. You may also Ping the server from the DOS prompt.

5.9 WHY DO I GET AN UNKNOWN PORT MESSAGE WHEN I ATTEMPT TO USE A BLUETOOTH SERIAL PORT?

The **"Unknown Port"** error message usually means an attempt was made to connect a port that was in use.

Additional Bluetooth Serial Ports can be added if they are required.

FCC Caution:

1. The 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.

2.FCC RF Radiation Exposure Statement: The equipment complies with FCC RF radiation exposure

limits set forth for an uncontrolled environment. This equipment should be installed and operated with a

minimum distance of 20 centimeters between the radiator and your body.

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

4. Changes or modifications to this unit not expressly approved by the party responsible for compliance

could void the user authority to operate the equipment.