



USB Bluetooth Adapter

BT-200U

User's Manual

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The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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Revision

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Part No. EM-BT200U

TABLE OF CONTENTS

CHAPTER 1 INTRODUCTION	1
BT-200U Features.....	1
Package Contents	1
CHAPTER 2 INSTALLATION	2
Software Installation	2
Software Un-installation	4
Hardware Installation.....	5
Setup Diagnostics	6
CHAPTER 3 BLUETOOTH SOFTWARE	8
About Bluetooth Software	8
Description of Bluetooth Software Icons	9
CHAPTER 4 BASIC OPERATION.....	11
Search for Bluetooth Devices	11
Pair.....	12
How to use the service of File Transfer	13
CHAPTER 5 CONFIGURATION.....	14
General	14
Accessibility.....	15
Discovery	16
Information Exchange	16
Local Services	17
Client Application.....	18
Hardware	19
Version Info.....	21
Notifications.....	21
APPENDIX A SPECIFICATION	23

Chapter 1

Introduction



This USB Bluetooth Adapter, BT-200U, is specifically designed to plug into an available Universal Serial Bus port connecting to a desktop or laptop PC. It allows you to make short-range wireless connections between Bluetooth devices such as cellular phones, personal digital assistants (PDA), and desktop and notebook computers.

BT-200U uses radio transmission, voice and data are thus transmitted almost immediately. Bluetooth transmission ensures both protection from interference and secures data transfers. It helps people share and access the information that's important to them more easily.

Link your notebook with your handheld, mobile phone, printer and other Bluetooth devices within your personal area network (PAN) via a secure short-range wireless radio link. Get rid of all those hassle cables and automatically share documents, browse the Internet and synchronize calendars, address books and more.

BT-200U Features

- Ø Follows world wide standard which compatible to other Bluetooth devices
- Ø Bluetooth Manager Utility eases the difficulties of configuration and management
- Ø Various services provided: Virtual Serial Port, Dial-up Networking, Fax, File Transfer, Information Exchange, Information Synchronization, and Network Access
- Ø Connection protection and data security enhanced mechanism
- Ø Most popular OS support: Windows 98SE, ME, 2000, XP
- Ø Up to 8 devices Point-to-MultiPoint topology expands your PAN coverage

Package Contents

The following items should be included:

- USB Bluetooth Adapter x 1
- USB Adapter Cable x 1
- CD-ROM (includes Driver, Utility, Manual) x 1
- Quick Installation Guide x 1

If any of the above items are damaged or missing, please contact your dealer immediately.

Chapter 2

Installation

2

Software Installation

Note: The Bluetooth Software should be installed well prior to the hardware installation.

1. Insert the CD-ROM into the CD-ROM drive to initiate the autorun program. Once completed, a menu screen will appear as follows:

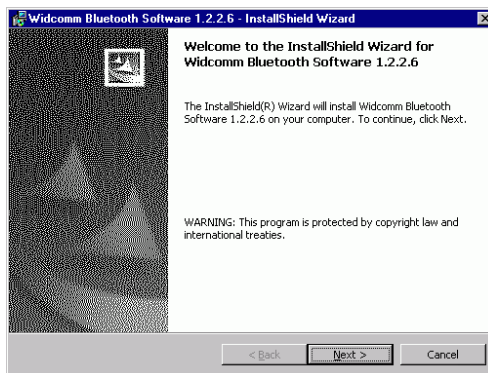


2. To install the Bluetooth software, click on the "**Bluetooth Software**" hyperlink to activate the installation procedure for the application program.

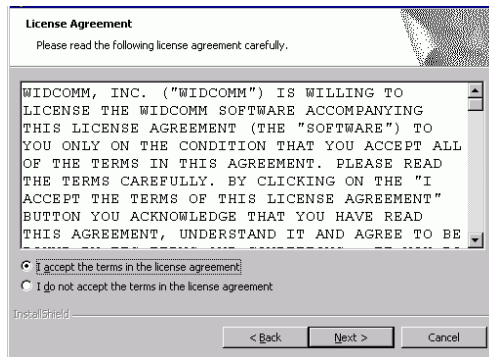
If the above screen is not shown, you can start the installation as follows.

- Click on **Start Menu/ Run**.
- Enter "D:\Utility\setup.exe" in the appeared box, where "D" is the letter of your CD-ROM drive.
- Click on "**OK**" button.

3. On the *Welcome* screen, click the **Next** button.




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



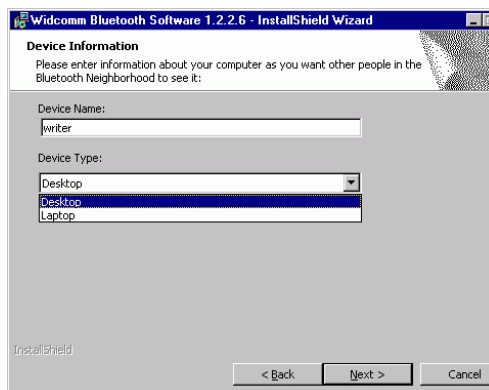
5. On the *Device Information* screen, enter the required information:

Device Name—other Bluetooth-enabled devices, when inquiring about devices within radio range, will see this user-configured device name.

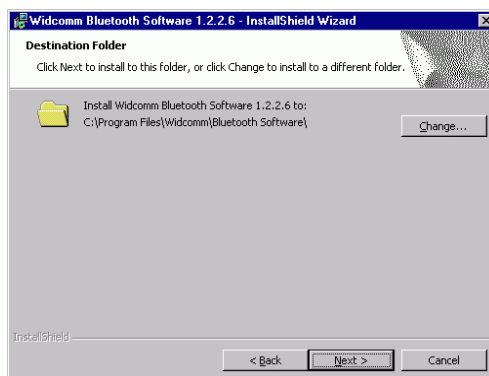
The name can be changed after the installation process through the Bluetooth Software Configuration Panel.

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.



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



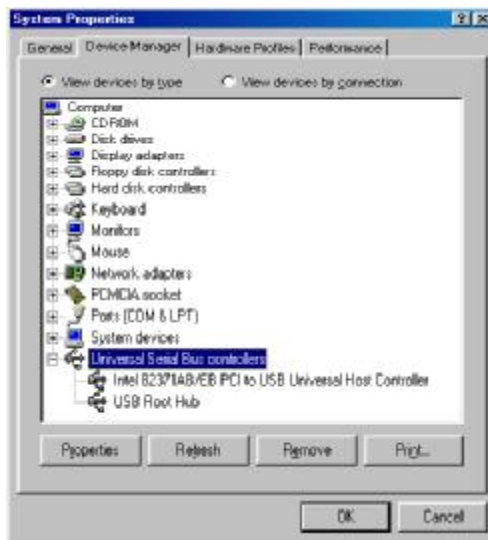
7. The InstallShield Wizard is ready to install the Bluetooth software. If you need to review or change any settings, click the **Back** button. Click the **Cancel** button to exit the Wizard. Otherwise, click the **Install** button

Hardware Installation

Note: The hardware installation should be only performed when the software is well installed.

Precaution

Before the installation, make sure the USB port exists in your computer and is enabled. To check this, go to **My Computer** → **Control Panel** → **System**. Open the **Device Manager** tab. If the **Universal Serial Bus controller** device is found, it means your USB port is installed and enabled. If not, either no USB port is installed or the USB bios is not properly enabled. In this case, consult your computer dealer for USB support.



Getting Hooked Up

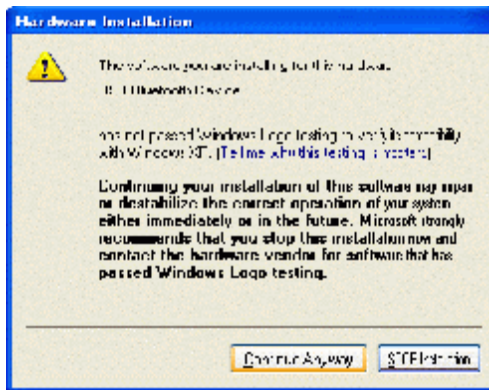
1. Locate the USB host port of your system. Align the USB connector (the thinner end) of the USB adapter toward the USB host port, push evenly and steadily until it is seated.
2. Plug your BT-200U into the thicker end of the USB adapter cable.



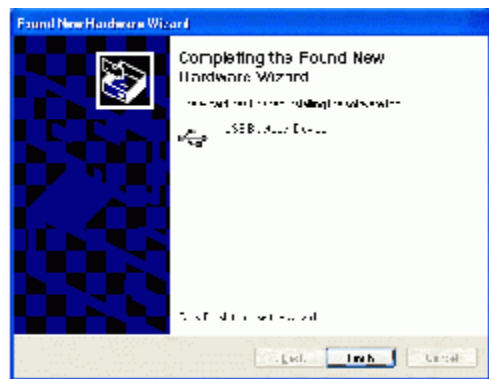
- As soon as the device is properly plugged to your computer, Windows will automatically detect the device and prompt the following message. Select “Install the software automatically (Recommended)” And press Next to continue.



- Select “Continue Anyway” with the following message.



- Press Finish to complete the hardware installation.



Setup Diagnostics

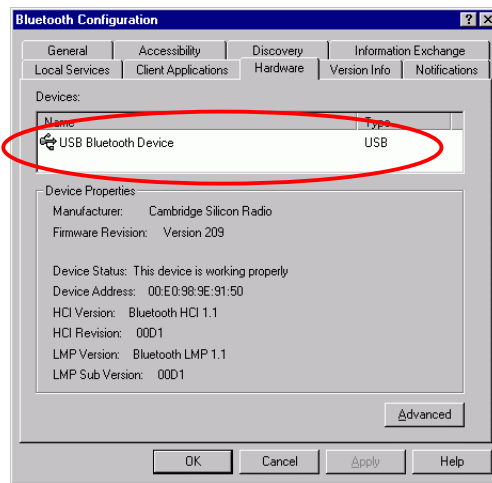
Once the software is well installed, your computer should prompt a Bluetooth icon



on the bottom right corner. You may right click to set up the configuration.



Select Hardware. Check if USB Bluetooth device is on the devices list as below. If yes, it means your BT-200U is well installed.



About Bluetooth Software

In order to exchange data, two Bluetooth devices must establish a connection. Before a connection is established, one device must request a connection with another. The second device accepts (or rejects) the connection. The originator of the request is known as the **client**. The device that accepts (or rejects) the request is known as the **server**. Many Bluetooth devices can act as both client and server.

A client Bluetooth device runs a software program that requests a connection to another device as part of its normal operation. For example, the program may request a connection to a remote computer, a printer, or a modem.

Becoming a Bluetooth client normally requires an action by the device operator, such as an attempt to browse a remote computer, print a file, or dial out on a modem.

Every Bluetooth device that provides a service must be prepared to respond to a connection request. Bluetooth software is always running in the background on the server, ready to respond to connection requests.

Most Bluetooth-enabled devices have the capability to act as:

- A Bluetooth server—these devices provide one or more services, such as access to the Internet, to other Bluetooth devices.
- A Bluetooth client—these devices use the service(s) provided by Bluetooth servers.

Bluetooth Software provides:

- Clients with the means:
 - .. To locate other Bluetooth devices in the immediate vicinity (inquiry)
 - .. Discover the services that those devices offer (discovery)
 - .. Connect to, use, and disconnect from those services.
- Servers with the means to include/exclude individual services in the list of services they provide to clients.
- Extensive security, including:
 - .. Authorization
 - .. Authentication
 - .. Encryption.

Bluetooth Software supports:

- Windows 98SE (Second Edition).
- Windows ME (Millennium Edition)
- Windows 2000.
- Windows XP Professional
- Windows XP Home Edition.

The services supported by Bluetooth Software are:

- **Bluetooth Serial Port**—establishes a Bluetooth wireless connection between two devices. The connection may be used by applications as though a physical serial cable connected the devices.
- **Dial-up Networking**—allows a Bluetooth client to use a modem that is physically attached to the Bluetooth server.

- Y **Fax**—allows a Bluetooth client to wirelessly send a fax using a device that is physically attached to the Bluetooth server.
- Y **File Transfer**—establishes a Bluetooth wireless connection that allows your computer to perform file system operations on another Bluetooth-enabled device—browse, drag/drop, open, print, cut/copy, paste, delete, rename, etc.
- Y **Information Exchange**—establishes a Bluetooth wireless connection between two devices so that they can exchange personal information manager data such as business cards, calendar items, email messages, and notes.
- Y **Information Synchronization**—establishes a Bluetooth wireless connection between two devices and uses the connection to synchronize Personal Information Manager data between the two devices.
- Y **Network Access**—establishes a Bluetooth wireless connection between the client and a server that is physically connected to the Local Area Network. If the client has permission (user name and password for the LAN), the wireless connection can be used as if the client were hardwired to the LAN.

Please note that not all Bluetooth servers provide all of these services.

To find out the services provided by a Bluetooth device:

1. On the client, in the Folders pane of **My Bluetooth Places**, select **Entire Bluetooth Neighborhood**.
2. In the right pane of Entire Bluetooth Neighborhood, right-click anywhere *except on a device name* and select **Refresh** from the pop-up menu.
3. In the Folders pane of My Bluetooth Places, right-click a device and select **Discover Available Services** from the pop-up menu to update the available services list. The available services will be displayed in the right pane of My Bluetooth Places.

Description of Bluetooth Software Icons

Bluetooth icons provide at-a-glance feedback about a device or service's status by changing color.

Device icons are blue in color with yellow accents in their "normal" state and green with yellow accents in their "connected" state. Devices that are paired with this computer display a "check mark" in the upper-left portion of their icon.

Device Icon Types			
Device Type	Normal	Connected	Paired
Cellular Telephone			
Desktop Computer			
Laptop Computer			
Modem			
Network			
Personal Digital Assistant (PDA)			
Printer			
Unknown devices.			


Service icons are gray or yellow in color (or gray with yellow accents) in their "normal" state. In the "connected" state the primary color of the icon (gray or yellow) changes to green.

Service Icon Types		
Service Name	Normal	Connected
Bluetooth Serial Port		
Dial-up Networking		
Fax		
File Transfer		
Information Exchange		
Information Synchronization		
Network Access		

Errata for Windows XP device icons

Windows XP Device Icons			
Device Type	Normal	Connected	Paired
Desktop			
Laptop			
Modem			
Network Access Point			
Personal Digital Assistant			
Printer			
Telephone			
Unknown Device			

Windows XP Service Icons			
Service Type	Normal	Connected	Not Available*
Dial-up Networking			
Fax			
File Transfer			
Information Exchange			
Network Access			
Serial Port			
Synchronization			

Icons for services that are not available have a red "X"  in their lower-right corner. Services may be unavailable because they are in use or because the necessary hardware (such as a modem for Dial-up Networking) is not installed.

Chapter 4

Basic Operation



For best performance, we recommend that the Bluetooth devices you are setting for transferring files should be within a range of 10 meters of each other.

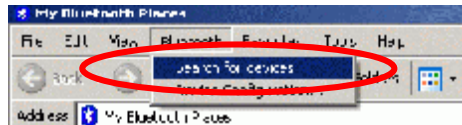
Before you start communicating with a Bluetooth device, you need to:

1. **Search Bluetooth devices** in the vicinity.
2. **Pair** your PC with the device – you do this by adding the device to a list of paired devices in your PC.

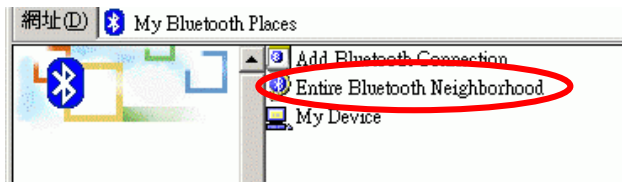
Search for Bluetooth Devices

In Windows 2000

1. In the Folders pane of My Bluetooth Places, Double-click **Bluetooth® Search for devices**.

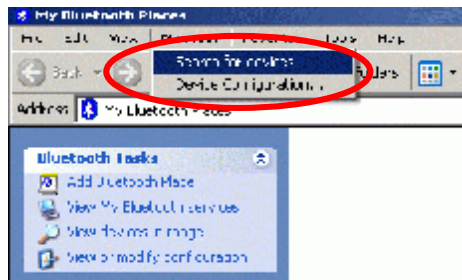


2. Select **Entire Bluetooth Neighborhood** in the right pane. The device name(s) will show up if this computer has used the Bluetooth service.

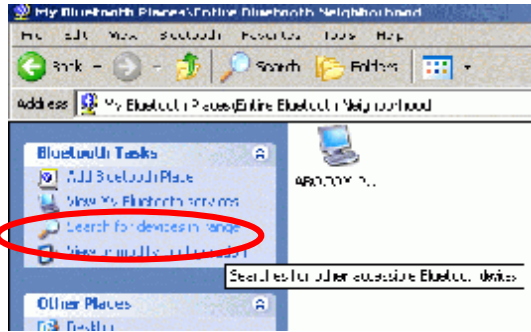


In Windows XP

1. In the Folders pane of My Bluetooth Places, Double-click **Bluetooth® Search for devices**.



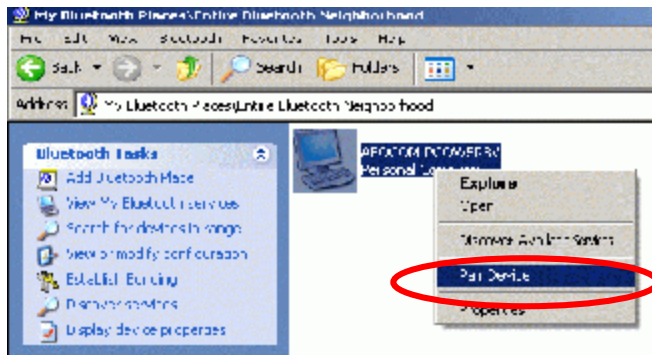
2. Select **Search for devices in range** in the left pane. The device name(s) will show up if this computer has used the Bluetooth service.



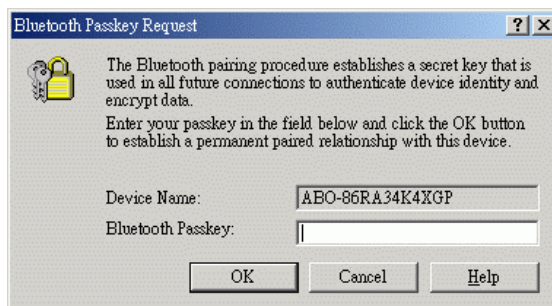
Pair

Pairing is the process of associating Bluetooth devices with each other so that they connect as soon as they get within range of each other. You can initiate the pairing between two Bluetooth devices from your own PC or you can accept a request for pairing from the other device.

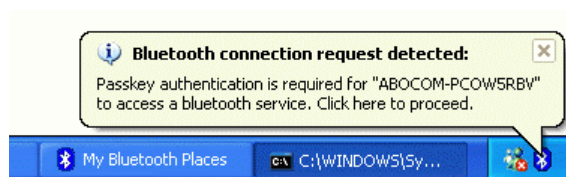
1. Right click the device that you just found. Select **Pair Device**.



2. The Bluetooth Passkey Request screen will be present. Enter the Passkey to authenticate device identity and encrypt data.



3. Meanwhile, the remote device that is requested for connection will prompt the following message for you to enter the passkey. Click the prompted message to enter the passkey.



4. Enter a **passkey** (up to 16 digits) for both your PC and for the other device.

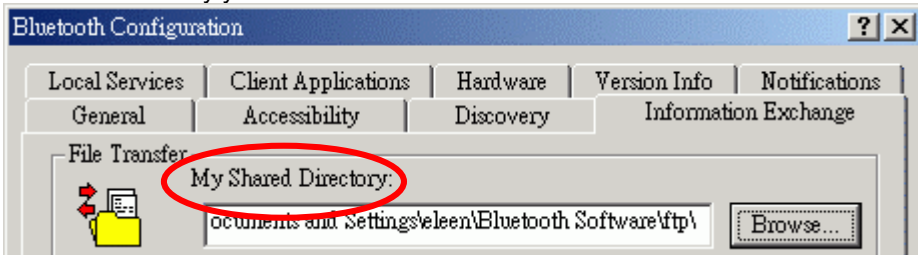
After the pairing procedures are completed, you may start using the local services that a Bluetooth server is capable of providing, which includes Bluetooth Serial Port, Dial-Up Networking, Fax, File Transfer, Information Exchange, Information Synchronization and Network Access.

How to use the service of File Transfer

The File Transfer service allows one Bluetooth device to perform file operations on the specified or default File Transfer directory (and the folders and files it contains) of another Bluetooth device.

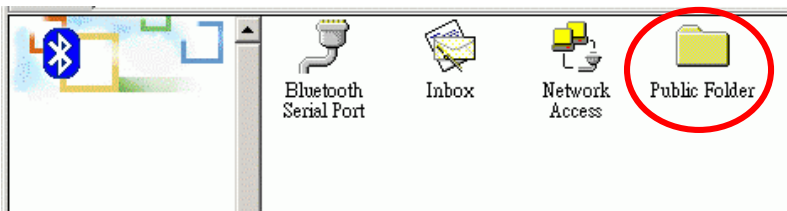
On the Server PC,

1. From the **Bluetooth Configuration** panel, on the **Information Exchange** tab, enter the directory you want to share the folders with the other device. Click **OK**.



On the Client PC,

1. In the Folders pane of **My Bluetooth Places**, select **Entire Bluetooth Neighborhood**.
2. In the right pane of **Entire Bluetooth Neighborhood**, right-click anywhere *except on a device name* and select **Refresh** from the pop-up menu.
3. In the Folders pane of **My Bluetooth Places**, right-click the device you already set to transfer files with and select **Discover Available Services** from the pop-up menu.



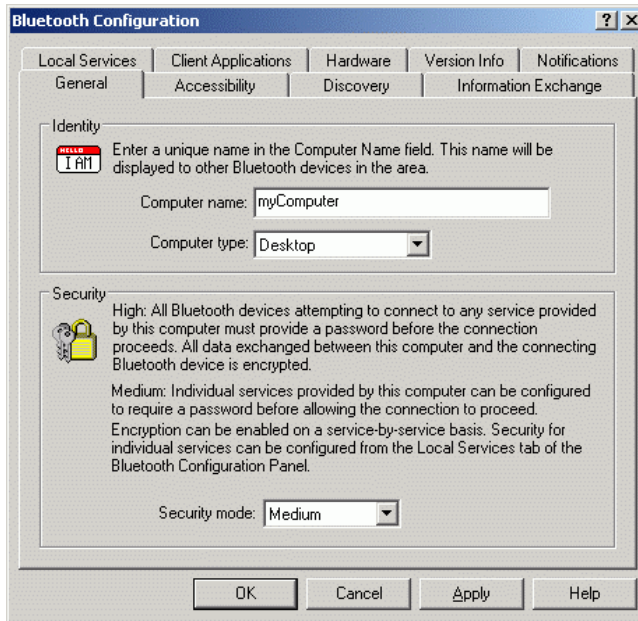
4. Double-click **Public Folder** to expand that folder. If there are additional folders inside the expanded folder then those additional folders may have to be expanded.

Chapter 5 Configuration

5

General

You may determine the **device properties** and **basic system security settings** on the General tab of the Bluetooth Configuration Panel.



Identity

Computer Name	enter a unique name to identify this computer to other Bluetooth devices in the vicinity; this field cannot be left blank.
Computer type	select either Desktop or Laptop from the drop-down menu to help identify this computer to other Bluetooth devices in the vicinity.

Security

High	requires Bluetooth devices to authenticate (enter a Personal Identification Number (PIN)) before allowing a connection to be established. Your computer and the connected Bluetooth device will exchange data using encrypted links.
Medium	the default setting—security is configured at the service-level. Service level security means that each individual service must have its security settings (Authentication, Authorization and Encryption) set independently.

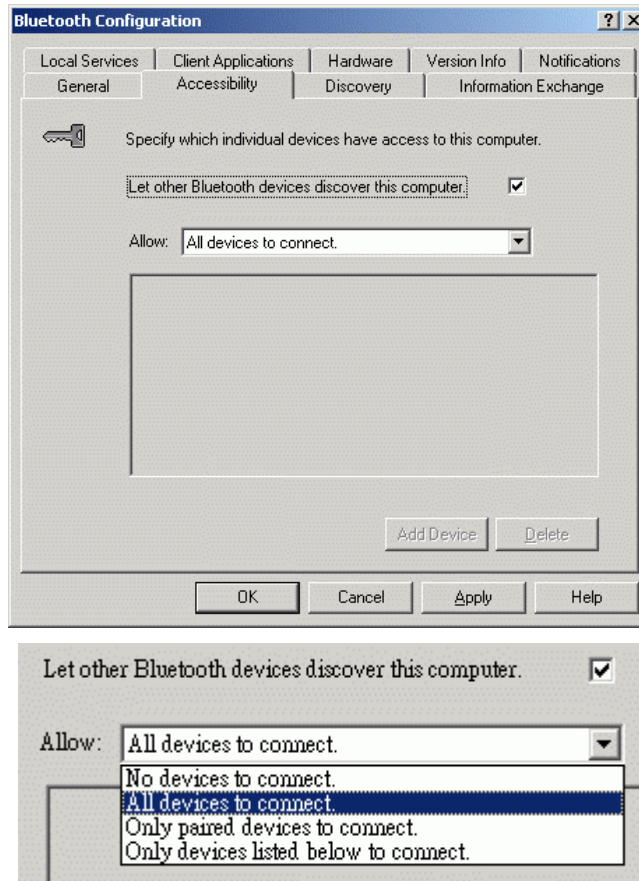
Note: If the security mode is "**Medium**" and service-level security is not configured, any Bluetooth device will be able to discover your computer and use its services.

Accessibility

In the Accessibility tab of the Bluetooth Configuration Panel, you will be able to **specify which remote devices may access this computer**.

Security settings configured in the **General**, **Local Services**, and **Client Applications** tabs may also affect which devices have access to this computer.

To allow other devices to discover this computer: select "**Let other Bluetooth devices discover this computer**" to permit remote Bluetooth devices to find and report this computer. If "**Allow No devices to connect**" (below) is selected, this option is not available.



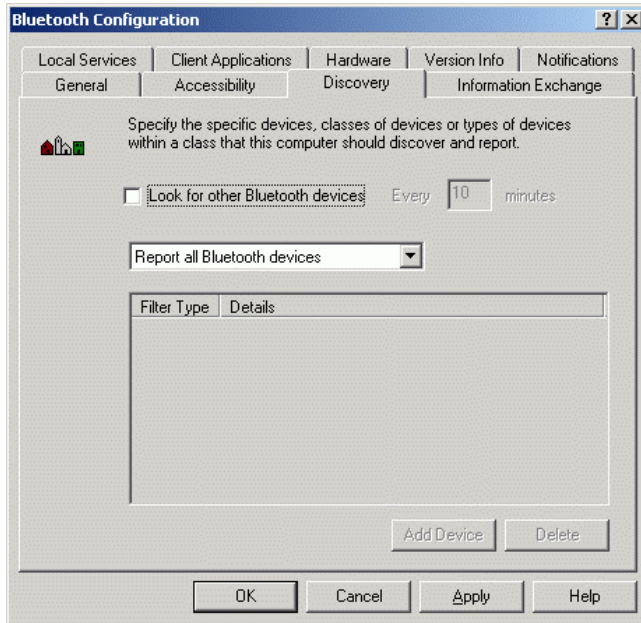
From the **Allow** drop-down-menu, you may select to control the types of devices that are allowed to connect to this computer.

No devices to connect	no remote devices are permitted to initiate a connection with this computer. However, this computer can still initiate connections (as a client) with remote Bluetooth devices.
All devices to connect	all remote devices are permitted to connect to this computer.
Only paired devices to connect	only devices that have been paired with this computer are allowed to connect to it.
Only devices listed below to connect	only the listed devices are allowed to connect to this computer (see next section for details of adding and deleting devices).

Discovery

In the Discovery tab of the Bluetooth Configuration Panel, you can determine:

1. whether your computer looks for other Bluetooth devices automatically,
2. how often it looks and,
3. what type of devices it looks for.



Perform a periodic Search for Devices

When **"Look for other Bluetooth devices"** is selected, Bluetooth Software automatically searches for devices every "X" minutes. X is an integer from 1 to 60. To change the time between auto inquiries, highlight the existing time and enter the new time.

*Note: When My Bluetooth Places is first opened it performs an initial automatic search for devices even if **"Look for other Bluetooth devices"** is not enabled.*

Determine which devices will be reported

Bluetooth Software can show devices that you do not need to access.

The options are:

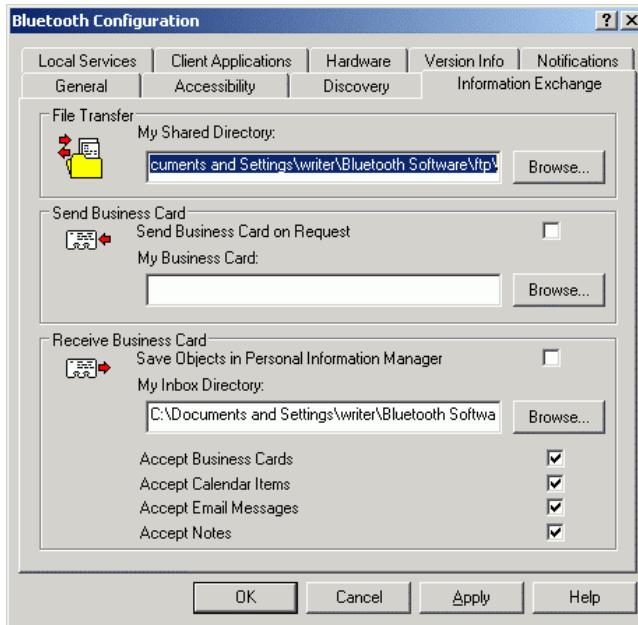
Report all Bluetooth devices

Report only selected Bluetooth devices

Select the desired option from the drop-down list.

Information Exchange

The Information Exchange service provides a way to send and receive Microsoft Outlook items to and from another Bluetooth device, such as a Personal Digital Assistant or notebook computer.



The settings on the Information Exchange tab of the Bluetooth Configuration Panel configure:

File Transfer

My Shared Directory: the directory configured in this section is the highest-level directory to which a remote Bluetooth computer has access. This directory and its sub directories are displayed in the remote device's My Bluetooth Places. Click the Browse button and navigate to the directory that will be used as My Shared Directory.

Send Business Card

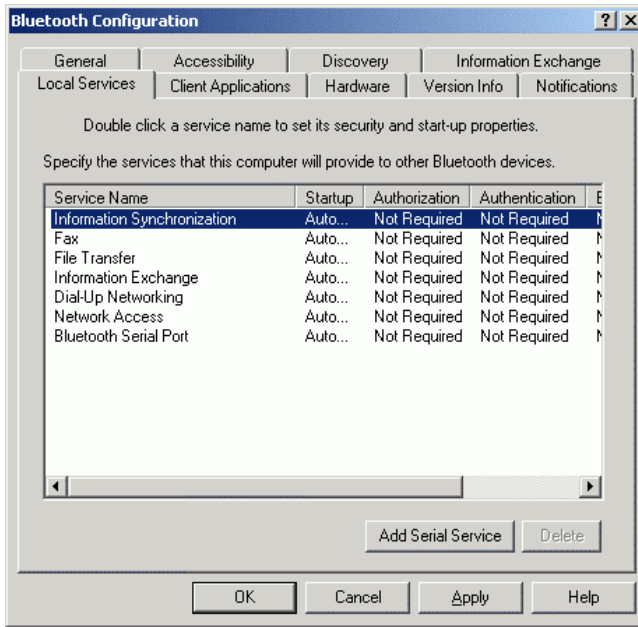
My Business Card: the path to the directory on this computer that contains your electronic business card. Select the **"Send Business Card on Request"** option to allow remote devices to obtain your business card. Click the **Browse** button and navigate to the directory that contains your business card.

Receive Business Card

My Inbox Directory: the path to the directory on this computer where inbound Personal Information Manager items such as **Business cards, Notes, Calendar** entries and **Email** Messages will be saved. Select the types of items you wish to accept by placing a checkmark in the appropriate boxes, and then click the **Browse** button to navigate to the directory where they should be saved. Select the "Save Objects in Personal Information Manager" option to save incoming objects directly in the PIM. *When this option is selected, the path specified in "My Inbox Directory" is not used.*

Local Services

The settings on the Local Services tab of the Bluetooth Configuration Panel determine the configuration of the services provided by your computer to remote devices. Each service can be configured individually for security, name, and other settings.



The Local Services tab also includes options to add and delete user-defined serial services.

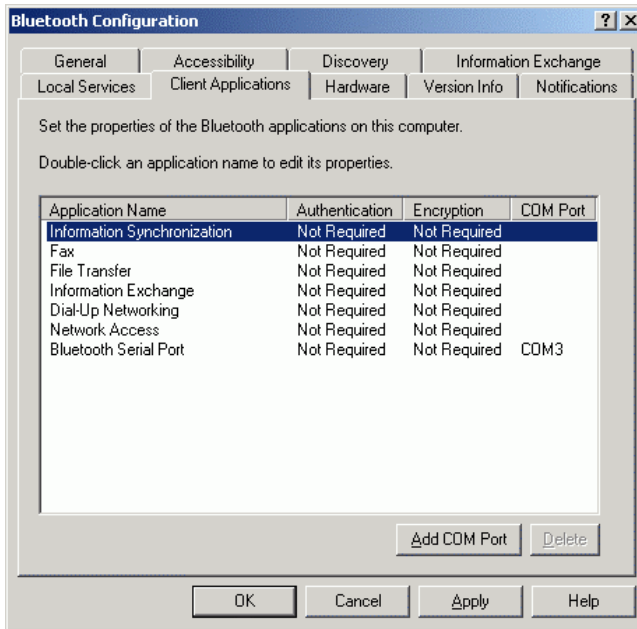
Bluetooth Software Local Service names are:

- Y Bluetooth Serial Port
- Y Dial-Up Networking
- Y Fax
- Y File Transfer
- Y Information Exchange
- Y Information Synchronization
- Y Network Access

Client Application

Network Access

The Network Access service permits a Bluetooth client to use a Local Area Network connection that is physically attached to another Bluetooth device (the server).



Possible Network Access servers include:

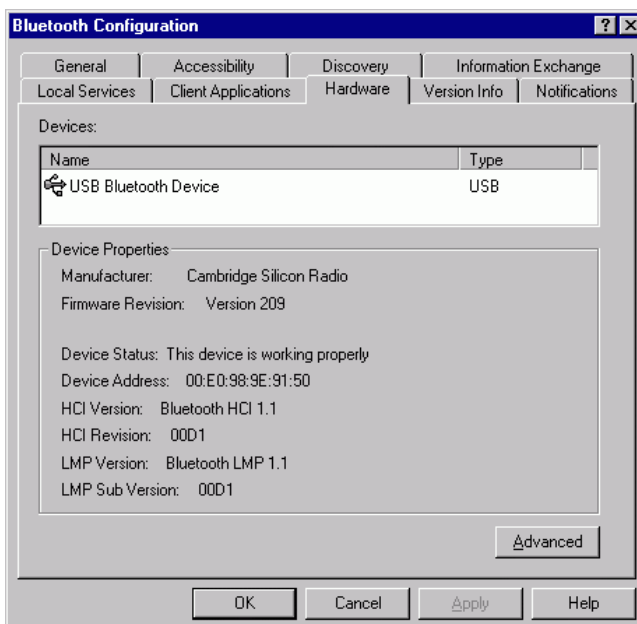
1. Bluetooth-enabled computers that have a hardwired Ethernet connection.
2. Stand-alone Bluetooth Network Access Points.

The Bluetooth server must be specifically configured to provide the Network Access service.

After a Bluetooth device is configured as a Network Access server it cannot act as a Network Access client without being re-configured.

Hardware

The Hardware tab of the Bluetooth Configuration Panel provides basic information about the Bluetooth hardware installed on this computer and access to the Advanced Settings dialog box.



Devices:

Name	name of the device, e.g., <i>My Bluetooth Device</i>
Type	type of the device, e.g., <i>USB</i> .

Device Properties:

Manufacturer	the name of the company that manufactured the device selected in the Devices section of this dialog box.
Firmware Revision	the manufacturer's firmware version number.
Device Status	indicates that the device is operating properly or that there is a problem/conflict.
Device Address	the Bluetooth Device Address (BDA or BD_Addr) programmed into this device when it was manufactured.
HCI Version	the version number of the Bluetooth Specification that the Host Controller Interface complies with.
HCI Revision	the revision number of the Bluetooth Specification that the Host Controller Interface complies with.
LMP Version	the version number of the Bluetooth Specification that the Link Manager Protocol complies with.
LMP Sub Version	the sub-version number of the Bluetooth Specification that the Link Manager Protocol complies with.

Advanced displays the Advanced Settings dialog box, which allows you to select the country code and transmission power settings. *This option is not available on all systems*

Hardware Advanced Settings Dialog Box

When available, this dialog box is reached from the Hardware tab of the Bluetooth Configuration Panel.

Depending on the country in which the hardware is sold and/or in which it will be used, the Advanced button may not be present.

From this dialog box you can set the:

Country Code:	North America, Europe (except France), and Japan
	France and China
Maximum Transmission Power:	High
	Medium
	Low

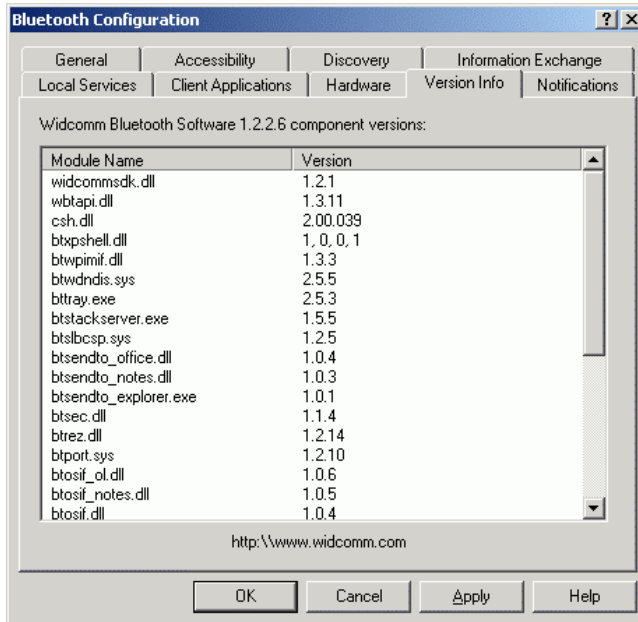
- Y Click the **Apply** button to implement the changes. A dialog box appears with notification that the Bluetooth device attached to this computer must be reset before the change(s) will take effect.
- Y Click the **Yes** button to reset the Bluetooth device now—*all open Bluetooth connections will be closed.*

- Click the **No** button to save the changes—the changes will be applied the next time the Bluetooth device is reset or restarted.

Version Info

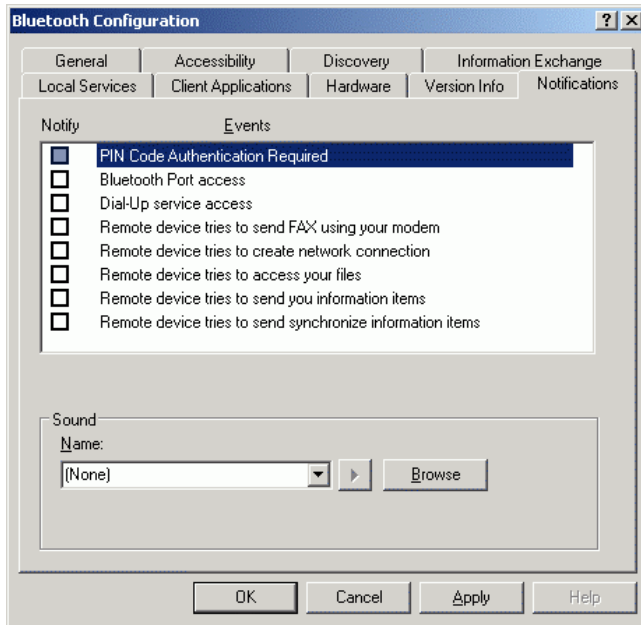
The Version Info tab of the Bluetooth Configuration Panel displays the name and version number of the software components of Bluetooth Software.

There are **no options** can be configured on this tab.



Notifications

The Notifications tab of the Bluetooth Configuration Panel lets you associate a sound (Windows *.wav file) with specific Bluetooth events.



Sounds can be associated on an individual basis with several events, including:

1. When a PIN code is required
2. When a remote device attempts to access:
 - .. Files on this computer
 - .. A Bluetooth port
 - .. The Dial-up network service
 - .. The LAN Access service
 - .. The Fax service.
3. When a remote device attempts to send:
 - .. Synchronization information.
 - .. Information items

To associate a sound with a Bluetooth event:

1. From the Bluetooth Configuration Panel, select **Notifications** tab.
2. In the **Notify** column of the **Events** list, select the check box associated with the event.
3. In the Sound area of the Notifications tab, click the **Browse** button and navigate to the sound file (*.wav) to be used for notification. To preview the sound file, click the play (>) button.
4. Click the **OK** button to close the Bluetooth Configuration Panel.

Note: The sound will not play, even though it has been assigned, unless the Notify check box is selected.

Appendix A

Trouble Shooting



Q1: CANNOT CONNECT TO A PAIRED DEVICE:

A1: 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.

Q2: CANNOT DISCOVER SERVICES ON AN UN-PAIRED REMOTE DEVICE:

A2: 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.

Q3: DIAL-UP NETWORKING SERVICE DOES NOT START:

A3: 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:

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

- ü Click the OK button.

- ü Click the OK button to close the Bluetooth Configuration Panel.

Q4: HOW DO I DETERMINE THE BLUETOOTH DEVICE ADDRESS (BDA) OF MY HARDWARE DEVICE?

A4: 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.

Q5: HOW DO I DETERMINE THE VERSION NUMBER OF THE BLUETOOTH SPECIFICATION THAT THE HOST CONTROLLER INTERFACE (HCI) COMPLIES WITH?

A5: 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.

Q6: HOW DO I DETERMINE THE VERSION NUMBER OF THE LINK MANAGER PROTOCOL (LMP)?

A6: 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.

Q7: HOW DO I FIND INFORMATION ABOUT THE BLUETOOTH HARDWARE ATTACHED TO MY COMPUTER?

A7: In the Bluetooth Configuration Panel, select the Hardware tab

Q8: HOW DO I TEST A NETWORK ACCESS CONNECTION?

A8: 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.

Q9: WHY DO I GET AN UNKNOWN PORT MESSAGE WHEN I ATTEMPT TO USE A BLUETOOTH SERIAL PORT?

A9: 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.

Appendix B

Specification



Standard	Bluetooth v1.1
Interface	USB v1.1 (Type A)
Frequency band	2.4~2.4835GHz unlicensed ISM band
Data rate	Up to 723Kbps
Modulation method	GFSK (Gaussian Frequency Shift Keying)
Spread spectrum	FHSS (Frequency Hopping Spread Spectrum)
Operating voltage	5V from connected USB port
TX output power	Class 2
Operating distance	Up to 10 meters in open space
Topology	8 devices Point-to-MultiPoint
Receiver sensitivity	Better than -70dBm @ 0.1% BER
Compatible OS	Windows 98SE/ME/2000/XP
Security provided	Pairing, encryption, authentication
LED indicator	Power: Orange
Operating temperature	0°C ~ 45°C
Storage temperature	-10°C ~ 70°C
Humidity	5 ~ 90% (non-condensing)
Power requirement	5V DC, 86mA
Regulatory compliance	FCC, CE

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