

USB Bluetooth Adapter

BT-200U

User's Manual

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Revision

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Part No. EM-BT200U

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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



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:

20	PLANET USB Bluetooth Adapter	
PLANET	BT-200U	E CO :
CD-FOH HLINE PAGE	About This CD-ROM	
	• User's Manual for	
	BT-200U (PDF) Get Accelut Freder.	
	+ Utility Installation	
	Bluetooth software	
	 Software to help you browse this CD-ROM 	
	Adobe Acrobat PDF Reader	
	Or to browse this CD-ROM, click Hare	

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.

Widcomm Bluetooth Software 1.2.2.6 - InstallShield Wizard				
E State	Welcome to the InstallShield Wizard for Widcomm Bluetooth Software 1.2.2.6			
	The InstallShield(R) Wizard will install Widcomm Bluetooth Software 1.2.2.6 on your computer. To continue, dick Next.			
	WARNING: This program is protected by copyright law and international treaties.			
	< Back Next > Cancel			

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.

License Agreement Please read the following license agreement carefully.
WIDCOMM, INC. ("WIDCOMM") IS WILLING TO LICENSE THE WIDCOMM SOFTWARE ACCOMPANYING THIS LICENSE AGREEMENT (THE "SOFTWARE") TO YOU ONLY ON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS IN THIS AGREEMENT. PLEASE READ THE TERMS CAREFULLY. BY CLICKING ON THE "I ACCEPT THE TERMS OF THIS LICENSE AGREEMENT" BUTTON YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT AND AGREE TO BE
[accept the terms in the license agreement] I go not accept the terms in the license agreement nstallSineId
< Back Next > Cancel

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 **G** 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.

Widcomm Bluetooth Software 1.2.2.6 - InstallShield Wizard	_ 🗆
Device Information Please enter information about your computer as you want other people in the Bluetooth Neighborhood to see it:	
Device Name: writer	
Device Type: Desktop	
Laptop	
Instalishield	Cancel

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.



 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



8. Click OK at the following message (only for Windows 2000/XP installation).



- 9. The *Installing Bluetooth Software* screen displays the installation progress. If prompted to insert the Windows CD, do so and follow the on-screen instructions.
- 10.When finished, click Finish to end the Installation Wizard.

🖗 Widcomm Bluetooth Software 1.2.2.6 - InstallShield Wizard 🛛 🛛 🗙				
	stallShield Wizard Completed			
The Blue	InstallShield Wizard has successfully installed Widcomm tooth Software 1.2.2.6. Click Finish to exit the wizard.			
	< Back Einish Cancel			

11. Remember to restart your computer to have the new configuration take effect.



Software Un-installation

- 1. In Windows, go to Start \rightarrow Settings \rightarrow Control Panel \rightarrow Add or Remove Programs.
- 2. Select Windcomm Bluetooth Software... and click the Remove 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 Computerà Control Panel à 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.



3. 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.



4. Select "Continue Anyway" with the following message.



5. 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.

	Explore		
Security	Setup	×	
Configuration	Services	•	
-)

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

uetooth Configuration General Accessibility Discove	? Information Exchange
Local Services Client Applications Hardwa	are Version Info Notifications
Devices:	
Nam	
HISB Bluetooth Device	LISB
C CCS Discourse from the	
Device Presenting	
Manufacturen Contrider Cilicon Badia	
Manufacturer: Cambridge Silicon Madio	
Firmware Nevision: Version 203	
Device Status: This device is working properly	
Device Address: 00:E0:98:9E:91:50	
HCI Version: Bluetooth HCI 1.1	
HCI Revision: 00D1	
LMP Version: Bluetooth LMP 1.1	
LMP Sub Version: 00D1	
	Advanced
OK Cance	el <u>A</u> pply Help
	пер

Chapter 3 Bluetooth Software

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:

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

Bluetooth Software provides:

..

...

••

- Ϋ́ 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.
- Ϋ́ Servers with the means to include/exclude individual services in the list of services they provide to clients.
- Ϋ́ Extensive security, including:
 - Authorization
 - Authentication
 - Encryption.

Bluetooth Software supports:

- Ÿ Windows 98SE (Second Edition).
- **Ÿ** Windows ME (Millennium Edition)
- Ϋ Windows 2000.
- **Ÿ** Windows XP Professional
- Ϋ́ Windows XP Home Edition.

The services supported by Bluetooth Software are:

- **β 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.

- **Fax**—allows a Bluetooth client to wirelessly send a fax using a device that is physically attached to the Bluetooth server.
- Ÿ 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.
- **Ϋ** 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.
- **Ϋ** Information Synchronization—establishes a Bluetooth wireless connection between two devices and uses the connection to synchronize Personal Information Manager data between the two devices.
- **Ϋ 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.
- 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	Ŵ	Ŵ	2
Modem			
Network		 ∟_	ן <mark>22</mark> יי ר ∔
Personal Digital Assistant (PDA)			
Printer			
Unknown devices.	•	2	1

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	9696969696969	
Service Name	Normal	Connected
Bluetoofa Serial Port	ľ	\.
Dial-up Networking		
Fax	- A	
File Transfer	1	
Information Exchange		1
Information Synchronization		l 👼
Network Access	1	

Errata for Windows XP device icons

Windows XP Davice Icons					
Device Type	Normal	Connected	Paired		
astrop	Į,				
~3303	зф ^р	A CONTRACTOR	1		
Møden.	<i>.</i>				
Network Access Point	ŝ.	-			
Persensi Digital Assistant		- -	2		
2-ida	١.	<u>i</u>	<u>7</u>		
Tzlajúrne	1	E.	N N N N N N N N N N N N N N N N N N N		
Daknewn Device	8	- 3	<u> 28</u>		
¥	Indows XP 8c	vice icons			
Service Type	Normal	Connected	Not Available*		
Rai to Networking			Res .		
728			1		
Pie Traisfe:	19	1	1		
mierantion socharge	1 - C		<i>.</i>		
Network Access	1				
Serial Per.					

Icons for services that are not available have a red "X" $\stackrel{\blacksquare}{\vdash}$ in their lower-right corner.

and the network hardware or not metalled.

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.

Synchronization

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.
- 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.



 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**.

Bluetooth Configur	ation			<u>? ×</u>
Local Services	Client Applications	Hardware	Version Info	Notifications
General	Accessibility	Discovery	Informatio	on Exchange
File Transfer	My Shared Directory: ocuments and Settings/el	een\Bluetooth S	oftware\ftp\	Browse

On the Client PC,

- 1. In the Folders pane of **My Bluetooth Places**, select **Entire Bluetooth Neighbor**hood.
- 2. In the right pane of **Entire Bluetooth Neighborhoo**d, 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



General

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

etooth Co	nfiguration	?
Local Servi General	ces Client Applications Hardware Version Info I Accessibility Discovery Information B	Notifications Exchange
Identity I AM	Enter a unique name in the Computer Name field. This name will I displayed to other Bluetooth devices in the area.	be
	Computer name: myComputer	
	Computer type: Desktop	
P	by this computer must provide a password before the connection proceeds. All data exchanged between this computer and the co Bluetooth device is encrypted.	nnecting
t E i	Medium: Individual services provided by this computer can be co to require a password before allowing the connection to proceed. Encryption can be enabled on a service-by-service basis. Securit individual services can be configured from the Local Services tab Bluetooth Configuration Panel.	nfigured y for of the
	Security mode: Medium	
	OK Cancel Apply	Help

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 En- cryption) 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 Service**s, 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.

Local Servic	es	Client Applications	Hardware	Version Info	Notification
General		Accessibility	Discovery	Informati	on Exchange
~	Specify Let oth Allow:	which individual de er Bluetooth device All devices to con	vices have acc s discover this o nect.	ess to this comp computer 6	uter. Z
			A	dd Device	<u>D</u> elete
		OK	Cancel	dd Device	Delete
Let othe	r Blue	OK tooth devices	 Cancel discover th	dd Device	Delete Help
Let othe Allow:	r Blue	OK tooth devices evices to conn	 Cancel discover th ect.	dd Device	Delete Help
Let othe Allow:	r Blue All d No de	OK tooth devices evices to conn evices to conn	 Cancel discover th ect. ect.	dd Device	Delete Help

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 com- puter.
Only paired devices to connect	only devices that have been paired with this computer are allowed to connect to it.
Only devices listed	only the listed devices are allowed to connect to this
below to connect	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.

Bluetooth Con	figuration
Local Service General	es Client Applications Hardware Version Info Notifications Accessibility Discovery Information Exchange
¢îa∎	Specify the specific devices, classes of devices or types of devices within a class that this computer should discover and report.
	Look for other Bluetooth devices Every 10 minutes
	Report all Bluetooth devices
	Filter Type Details
	Add Device Delete
	OK Cancel <u>A</u> pply Help

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.

Bluetooth Confi	juration			? ×
Local Services General	Client Applications	Hardware Discovery	Version Info Informat	Notifications
File Transfer	My Shared Directory:	vriter\Bluetooth S	oftware\ftp\	Browse
Send Busine	ss Card Send Business Card on R	equest		
	My Business Card:			Browse
⊂ Receive Bus	iness Card Save Objects in Personal My Inbox Directory:	Information Man	ager	
	C:\Documents and Set	tings\writer\Bluet	ooth Softwa	Browse
	Accept Business Cards Accept Calendar Items Accept Email Messages Accept Notes			र र र
	ОК	Cancel	Apply	Help

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.

etooth Configu	ation						?
General Accessibility Di			covery Information Exchang			ge	
Local Services	Client Applications	Hardv	vare	Version	n Info	Notifica	ations
Double click a service name to set its security and start-up properties. Specify the services that this computer will provide to other Bluetooth devices.							
Service Name		Startup	Authori	zation	Authe	ntication	E
Information Syn	chronization	Auto	Not Re	quired	Not R	equired	R
Fax		Auto	Not Re	quired	Not R	equired	1
File Transfer		Auto	Not Re	quired	Not R	equired	1
Information Exc	hange	Auto	Not Re	quired	Not R	equired	1
Dial-Up Networ	king	Auto	Not Re	quired	Not R	equired	1
Network Access		Auto	Not Re	quired	Not R	equired	- N
Bluetooth Seria	l Port	Auto	Not Re	quired	Not R	equired	٢
•							•
			Add S	erial Sei	rvice	Delete	
	OK	Can	cel	Ap	ply	Н	elp

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

Bluetooth Software Local Service names are:

- Ϋ Bluetooth Serial Port
- Ϋ́ Dial-Up Networking
- Ϋ Fax
- Ϋ́ File Transfer
- Ϋ́ Information Exchange
- Ϋ́ Information Synchronization
- Ϋ 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).

ietooth Configu	ration			?
General Local Services	Accessibility Client Applications	Discovery Hardware	Informat Version Info	ion Exchange Notifications
Set the propertie Double-click an	s of the Bluetooth app application name to e	plications on this dit its properties.	computer.	
Application Na	me	Authentication	Encryption	COM Port
Fax File Transfer Information Exc Dial-Up Network Network Acces Bluetooth Seria	shange riking ss I Port	Not Required Not Required Not Required Not Required Not Required Not Required	Not Required Not Required Not Required Not Required Not Required Not Required	СОМЗ
		[Add COM Port	Delete
	OK	Cancel		Help

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.

Bluetooth Configuration	? ×
General Accessibility Discovery Local Services Client Applications Hardware	Information Exchange
Devices:	
Name	Туре
😋 USB Bluetooth Device	USB
Device Properties	
Manufacturer: Cambridge Silicon Radio	
Firmware Revision: Version 209	
Device Chebyer This device is weathing exceeds	
Device Address: 00:E0:98:9E:91:50	
HCI Version: Bluetooth HCI 1 1	
HCI Revision: 00D1	
LMP Version: Bluetooth LMP 1.1	
LMP Sub Version: 00D1	
	Advanced
OK Cancel	Apply Help

Devices:

Name	name of the device, e.g., My Bluetooth Device
Туре	type of the device, e.g., USB.

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 Ad- dress	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

- **Ϋ** 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.
- Ϋ Click the **Yes** button to reset the Bluetooth device now—all open Bluetooth connections will be closed.

Ϋ 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.

etooth Configuration		?		
General Accessibility	Discovery	Information Exchange		
Local Services Client Applica	ations Hardware	Version Info Notifications		
Widcomm Bluetooth Software 1.: Module Name widcommsdk.dll wbtapi.dll csh.dll btxpshell.dll btwprinif.dll btwdndis.sys btray.exe btslackserver.exe btslackserver.exe btslackserver.exe btslack.getre.dll btsendto_explorer.exe btsec.dll btre.dll btre.dll btprid.elll	2.2.6 component version 1.2.1 1.3.11 2.00.039 1, 0, 0, 1 1.3.3 2.5.5 2.5.3 1.5.5 1.2.5 1.0.4 1.0.3 1.0.1 1.1.4 1.2.14 1.2.10 1.0.6	ins:		
btosif_notes.dll	1.0.5			
btosif.dll	1.0.4	_		
http://www.widcomm.com				
OK	Cancel	Apply Help		

Notifications

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

uetooth Conf	iguration			? ×	
General	Accessibility	Discovery	Informatio	n Exchange	
Local Service	s Ulient Applications	Hardware	Version Info	Notifications	
Notify	<u>E</u> vents				
PIN	Code Authentication Requ	ired			
Blue	tooth Port access				
Dial-Up service access Bemote device tries to cend EAX using your modem					
	Remote device tries to create network connection				
Rem	Remote device tries to access your files				
Remote device tries to send you information items					
Bem Rem	ote device tries to send syr	nchronize inform	nation items		
1					
Sound					
<u>N</u> ame:					
(None)		• •	<u>B</u> rowse		

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.
- 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
Тороlоду	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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