

B L U E T A K E

BT100S CF Card

Bluetooth by your side

User Guide

(For Windows XP/ 2000/ ME/ 98SE)

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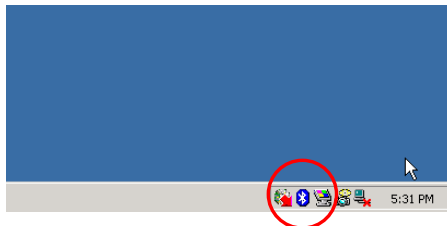
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1. BTW Console

After BTW installed in your system, a shortcut called Bluetooth System Tray(BTTray) function will automatically execute whenever system starts and show it's icon on the Windows toolbar. The BTTray provides several practical functions:

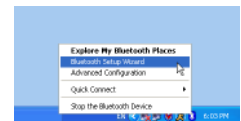
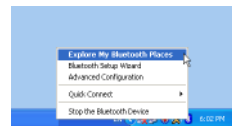
- Unobtrusive notification when intervention is required to authorize a security request or enter a Bluetooth passkey.
- Dialog boxes that prompt for security authorization and allow passkey entry.
- Bluetooth “pairing” support.
- Access to the Bluetooth *Configuration* window.



Bluetooth Console icon on toolbar

The BTTray provides several practical functions:

1. Explore My Bluetooth Places: opens *My Bluetooth Places* window.
2. Bluetooth Setup Wizard: opens up the *Bluetooth Setup Wizard*.
3. Advanced Configuration: opens up the *Bluetooth Configuration* menu.
4. Quick Connect: Selects others' Bluetooth service directly and swiftly.
5. Stop the Bluetooth Device: disconnects your Bluetooth device.

































Icons Used for Bluetooth Devices and Services

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




























The Bluetooth icon in the Windows system tray provides feedback about Bluetooth status.

Bluetooth Icon Indicates Bluetooth Status		
Enabled	Disabled	Connected
		
Blue with White	Blue with Red	Blue with Green

Bluetooth Icon on BTTray to provide Bluetooth Status

Device Icons for Windows XP			
Name	Normal	Connected	Paired
Audio Gateway			
Desktop			
Headset			
Laptop			
Modem			
Network Access Point			
Personal Digital Assistant			
Printer			
Telephone			
Unknown Device			

Device Icons for Windows XP

Service Icons for Windows XP			
Name	Normal	Connected	Not Available*
Audio Gateway			
Dial-up Networking			
Fax			
Headset			
Network Access			
PIM Item Transfer			
PIM Synchronization			
Public Folder			
Serial Port			
*Services may be unavailable because they are in use or because the necessary hardware is not installed.			

Service Icons for Windows XP

1.1 Bluetooth Security Settings

After installation of your Bluetooth Software, the default security settings is set to Secure. In Secure setting the system will prompt for passkey confirmation everytime a Bluetooth device is attempting to connect to your system. To ensure that your software works easily with your system for initial set up, it is best to switch the setting to unsecure.

1.1.1 Local Service Tab

To turn off your Secure setting, go to your *BTW Console* located on the bottom right hand corner of your Windows Toolbar. Right click and choose the '*Advance Configurations*' option. Once the Configuration Window opens, choose the *Local Services* tab key.

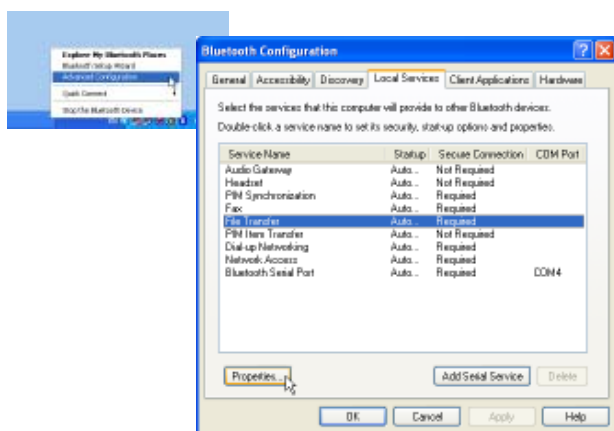


Figure 1.1 Local Services Window to change security settings.

Right click on the service you would like to set unsecure. For example, right click on *File Transfer* option, once the File Transfer properties window opens, uncheck the *secure connection* option. Now you are allowing file transfer to other computers without secure paskey.

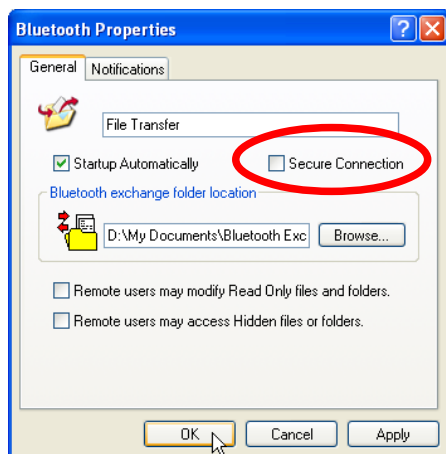


Figure 1.2 Properties window for File Transfer.

Note: Once you have unchecked the *secure connection* option, all Bluetooth devices are allow to connect to your system and use your services.

1.1.2 Client Application Tab

Once you have turned off the Secure settings in the Local Services window you must also turn it off in the Client Application tab. The security setting in the ClientApplication window prompts for passkey code everytime you attempt to connect to other computer or devices even if no security setting is set on the remote computer. Thus, to ensure proper function it is best to turn off the security settings on Client Application.

First, select the *Client Application* tab. Then, right click on the service you would like to turn off your security settings. In this case, *File Transfer*. Now, uncheck *secure connection* on the window. Then click OK.

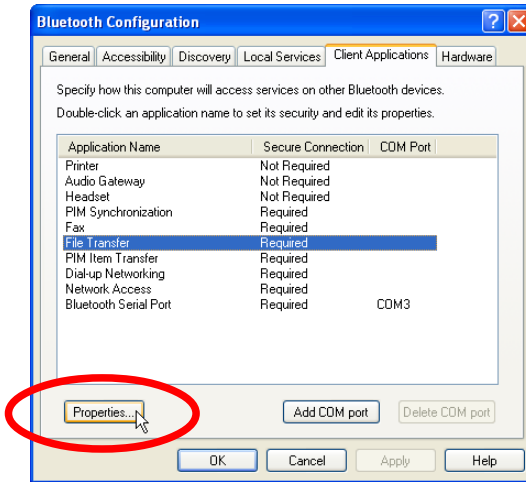


Figure 1.3 Client Application Window.

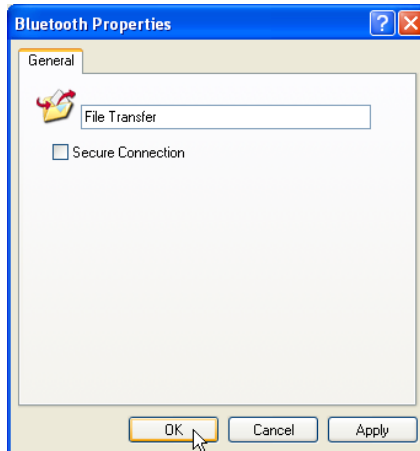


Figure 1.4 Client Application Properties window.

1.2 Bluetooth Configuration

The Bluetooth Configuration window divides into six tabs:

General

- Identifies the computer name and computer type; desktop or laptop.

Accessibility

- Determines which individual Bluetooth-enabled devices are allowed to access to this computer.

Discovery

- Perform a periodic search for Bluetooth devices. The filters which specify devices or classes and types within class of devices are discovered.

Local Services

- Configures the properties of the local services. Properties include Authorization, Authentication, Startup, Encryption, COM port, and Modem type.

Client Applications

- Configures the properties of the client applications that your computer will use to access Bluetooth services on a remote device. Properties include Authentication, Encryption, add COM port, and select COM port for Bluetooth Serial port.

Hardware

- Shows the hardware's informations.

1.2.1 General Tab

In the Identity section, you can give a unique name for this computer in *Computer Name* column to be identified by other Bluetooth-enabled devices in Bluetooth Neighborhood. A valid computer name is between 1 to 247 characters.

As to the *Computer Type* column, there are *Desktop* and *Laptop* options depends on the computer type you are using.

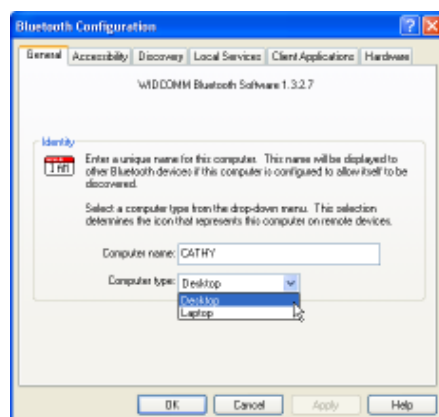


Figure 1.5 - General Tab

1.2.2 Accessibility Tab

The Accessibility tab includes several options:

- *Let other Bluetooth devices discover this computer*

The default is allowed remote devices to discover this computer.

Note: this function is ineligible when **No devices to connect** option is selected in *Allow* option.

- *Allow*

This option has four configurations to select:

All devices to connect

Default setting. Let other devices discover this computer without any restrictions.

No devices to connect

This computer can still require a connection to a remote device, but a remote device won't be able to connect to this computer or use all services.

Only paired devices to connect

Only the devices that have been paired are authorized to connect to this computer.

Only devices listed below to connect

Only the devices that have been added in *Add Device* box are authorized to connect to this computer.

- *Select an audio notification when pin code is requested.*

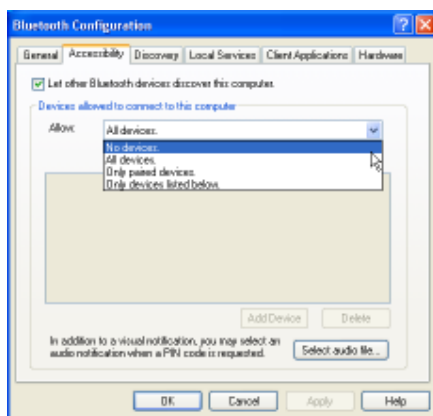


Figure 1.6 - Accessibility Tab



Figure 1.7 - Accessibility Tab

1.2.3 Discovery Tab

1.2.3.1 Periodic search for devices

The first option in Discovery tab allows this computer to perform periodic search for remote devices in the background. To make continuous periodic device searches:

1. Check the box labeled *Look for other Bluetooth devices*
2. Enter a number between 1 and 60 to set the period of time in the *Every minutes* box.
3. Press OK button to confirm the change.

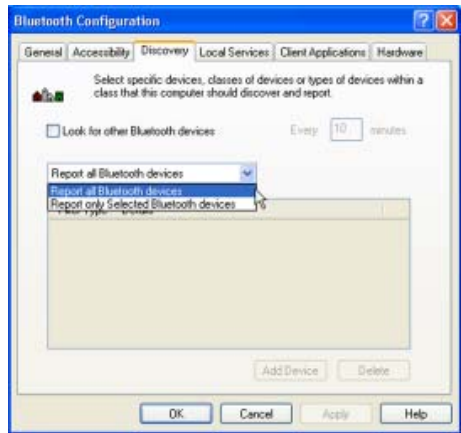


Figure 1.8 - Discovery Tab

1.2.3.2 Control device(s) display in Bluetooth Neighborhood

With the default option **Report all Bluetooth devices**, the Bluetooth Neighborhood window displays all the devices found by your computer.

1.2.3.3 Report only Selected Bluetooth devices

The configuration can also be changed by choosing **Report only Selected Bluetooth devices** option to control which devices are displayed by adding one or more filters to the Discovery tab.

When you choose *Report only Selected Bluetooth devices* option, you can add filter type by pressing *Add Device* button.

There are two options In the *Discoverable devices...* window:

1) Allow this computer to discover specific devices.

1. Make sure that the radio button labeled *Allow this computer to discover specific devices* is selected.
2. Select remote device(s) through the dialog box (to select more than one device, press the *Ctrl* or *Shift* keys while making the selections).
3. Click the dialog box *OK* button. Then selected devices will show in the filter list on the Discovery tab.
4. Press *OK* button to confirm the change.

2) Allow this computer to discover specific classes or types of devices within a class.

1. Make sure that radio button labeled *Allow this computer to discover specific classes or types of devices within a class* is selected.
2. Click the down-arrow located at the right side of the *Class* field and select a class from the list. All available classes and types are listed in Table-1.

Table-1: Class of Device and Type of Device

Class of Device	Type of Device
<i>Computer</i>	Desktop Workstation
	Server Class Computer
	Laptop
	Handheld PC/PDA
	Palm PC/PDA
	All
<i>Phone</i>	Cellular
	Cordless
	Smart Phone
	Wired Modem or Voice
	All
<i>LAN Access Point</i>	All
<i>Audio</i>	Headset
	All
<i>Pheripheral</i>	All

3. Click the down-arrow located at the right side of the *Type* field and select a class from the list.
4. Click OK button. When go back to the Discovery Tab, there appears the selected device class and type in the filter list.
5. Press OK button to confirm the change.

Note: Remember to select Report all Bluetooth devices option when you delete all filters. Otherwise, an error message will display when you press OK button.

1.2.4 Local Service Tab

The Local Service tab is used for specifying the services that are provided to other Bluetooth-enabled devices. Each service can be configured respectively for name, security, and other settings. This tab also includes options to add and delete user-defined serial services.

1.2.5 Client Application Tab

Client applications are the local software that allows your computer to interact with other Bluetooth devices that provide a similar local service. For example, the Bluetooth Serial Port client application on your computer allows it to establish a virtual COM port with a remote device that provides the Bluetooth specification Serial Profile service. Besides providing a means to configure each client application respectively for name, security, and other settings, the Client Application tab also has options to add a user-defined COM port and/or delete applications.

The client applications share the same names as the local services, such as *Bluetooth Serial Port*, *Dial-Up Networking*, *Fax*, *File Transfer*, *Information Exchange*, *Information Synchronization*, and *Network Access*.

1.2.6 Hardware Tab

The Hardware tab shows the current properties of the Bluetooth device installed on your computer. You can also enter the Advanced Settings to change the Bluetooth device's hardware configuration such as Country Code and Maximum Transmission Power.

1.3 Bluetooth Setup Wizard

The Bluetooth Setup Wizard is a quick and easy wizard to help you find services on others' computer, find services on a specific computer, configure services to provide to remote clients, and change your name and device type.

1.3.1 Finding other services

Choose option one when you would like to search for services on other computers, such as network access, file transfer, etc...

To begin your search, go to your *BTW Console* located on the bottom right hand corner of your Windows Toolbar. Right click and choose the '*Bluetooth Setup Wizard*'. Once the Setup Wizard windows open, choose option 1, then click *Next*.



Figure 1.9 - Bluetooth SetupWizard

For example, to establish a network access, choose the *Network Access* option. Then, the computer will search for network access availability from other computers.

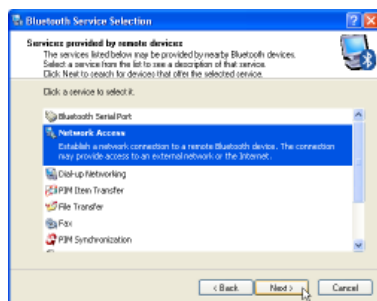


Figure 1.10 - Bluetooth SetupWizard

After, you must choose which computer you would like to access the network from.

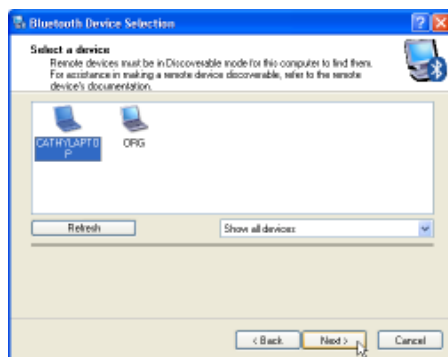


Figure 1.11 - Bluetooth SetupWizard

Now the network access is established. You can also create a shortcut to this network access by clicking the box next the '*Create shortcut ...*', this way you can have access easily in the future.

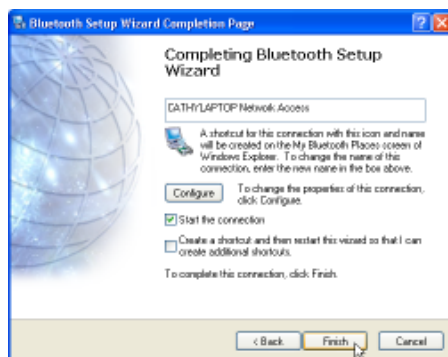


Figure 1.12 - Bluetooth SetupWizard

Note: It is suggested that user create shortcut for easy access. Creating a shortcut allows easy access to the Network without configuring it again.

1.3.2 Finding services on specific computers

Choose option two when you would like to search for services on a specific computer.

To begin to search for services on a particular computer, go to your *BTW Console* located on the bottom right hand corner of your Windows Toolbar. Right click and choose the *'Bluetooth Setup Wizard'*. Once the Setup Wizard windows open, choose option 2, then click *Next*.



Figure 1.13 - Bluetooth SetupWizard

The Setup Wizard will first search for all devices or computers around you. Choose the specific computer you would like to find the service from. For example, to establish a network access to the client computer, first, choose the client computer you would like to access the network from. Then click *Next*.

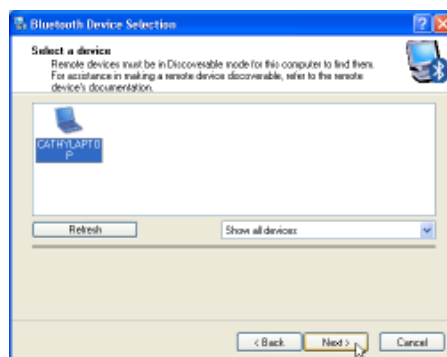


Figure 1.14 - Bluetooth SetupWizard

Then, choose the service you like, in this case, *Network Access*. Then click *Finish*. Now network access is connected to the client computer.

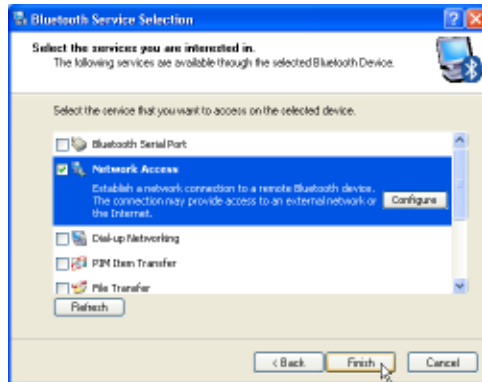


Figure 1.15 - Bluetooth SetupWizard

Furthermore, a network access shortcut to the client computer is created in My Bluetooth Places.

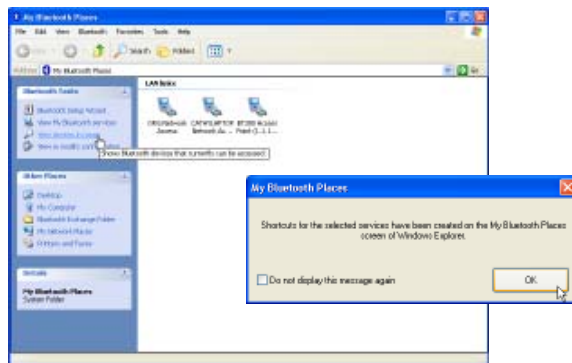


Figure 1.16 - Bluetooth SetupWizard

1.3.3 Configuring services to provide to remote clients

Choose option 3 when you would like to configure your services on your computer.

To begin configuration, go to your *BTW Console* located on the bottom right hand corner of your Windows Toolbar. Right click and choose the '*Bluetooth Setup Wizard*'. Once the Setup Wizard windows open, choose option 3, then click *Next*.



Figure 1.17 - Bluetooth SetupWizard

The Setup Wizard will search for all services provided by your computer and list them. Choose the service you would like to configure. For example, by choosing *Configure* your *Network Access*, the *Properties* window for network access service will appear.

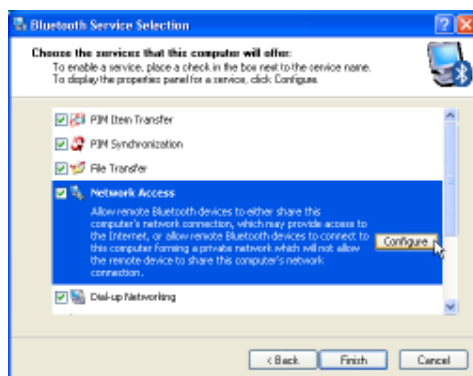


Figure 1.18 - Bluetooth SetupWizard

By picking the option *'Allow other devices to access the Internet/LAN via this computer'*, you are providing network access to others through this computer.

All other configurations can be set by choosing the other services.



Figure 1.19 - Bluetooth SetupWizard

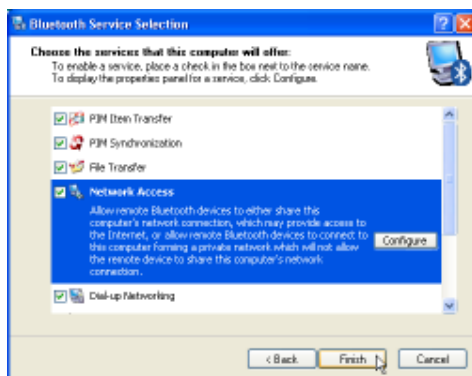


Figure 1.20 - Bluetooth SetupWizard

1.3.4 Changing your name and device type

Option 4 allows you to change your name and device type this computer will display to others.

To begin, go to your *BTW Console* located on the bottom right hand corner of your Windows Toolbar. Right click and choose the '*Bluetooth Setup Wizard*'. Once the Setup Wizard windows open, choose option 3, then click *Next*.



Figure 1.21 - Bluetooth SetupWizard

You can type in the name you would like to call your computer and choose if this is a Desktop or Laptop.

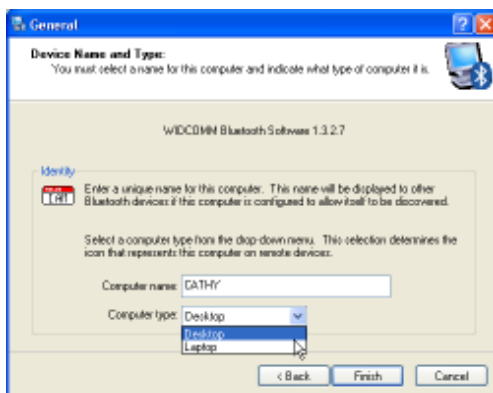


Figure 1.22 - Bluetooth SetupWizard

2. Bluetooth Service Usage

Bluetooth for Windows (BTW) is the solution for the seamless integration of Bluetooth technology into personal computers.

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 the other Bluetooth devices.
- A Bluetooth client: these devices use the service(s) provided by Bluetooth servers.

Bluetooth for Windows software provides:

- *Clients*

- 1) To locate other Bluetooth devices in the immediate vicinity (inquiry).
- 2) Discover the services that those devices offer(discovery).
- 3) Connect to, use, and disconnect from those devices.

- *Servers*

- 1) To include/exclude individual services in the list of services it provides to clients.

-*Extensive security, including:*

- 1) Authorization.
- 2) Authentication.
- 3) Encryption.

BTW software supports:

Windows XP/ Windows 2000/ Windows ME/ Windows 98SE

BTW functions the same, regardless of the supported version of Windows it is running on.

2.1 Local Device services

As figure 2.1 shows, double click on the [**My Device**] icon or 'View MyBluetooth Services' (for Window XP) and then go into the sub-window as below:

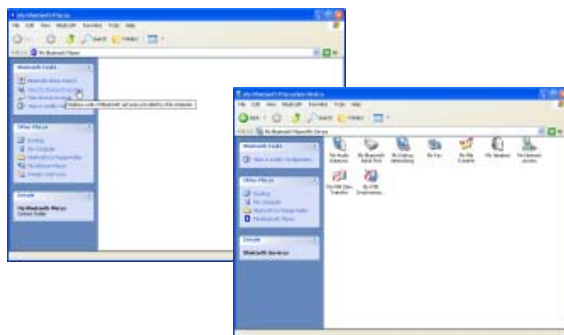


Figure 2.1 - My Device window

My Device window shows all local services that a Bluetooth server is capable of providing. The services include:

- My Bluetooth Serial Port
- My Dial-Up Networking
- My Fax
- My Network Access
- My File Transfer
- My PIM Item Transfer (Personal Information Exchange)
- My PIM Synchronization (Personal Information Synchronization)
- My Audio Gateway
- My Headset

All services will automatically start when the Bluetooth™ software is initialized. Auto start-up can also be disabled for individual service (by using *Bluetooth Configuration Console/Local Services tab*, and double click on respective service to change *start-up* property). To stop a service

that is in action, just right-click on the icon of service, and choose stop from the pop-up menu. Not all services are available when you start, the device you are using must be enabled in order for proper usage.

Note: Those services that you stopped are unavailable for clients unless you restart them again.

Connections are usually established and disconnected by the client side. However, if necessary, you can also interrupt the connection from server side directly, or restart the service from stopped state.

. In My Device window, right-click on the icon of service, and choose stop/ start from the pop-up menu.

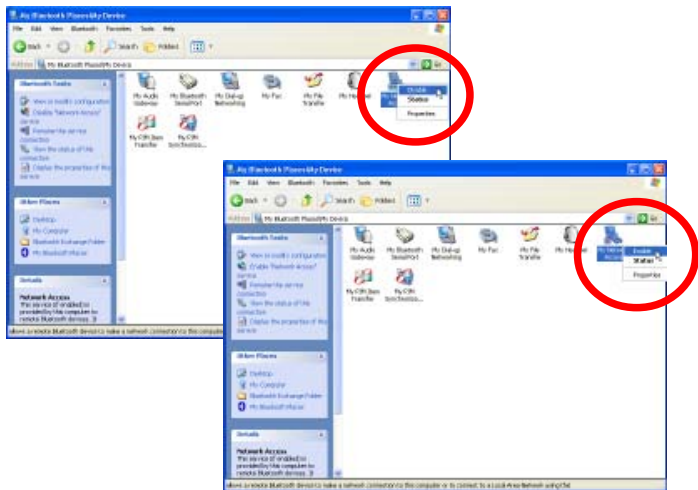


Figure 2.2 - Start/Stop service from pop-up menu

2.2 Bluetooth Neighborhood services



In the *My Bluetooth Places* window, you can click on *Entire Bluetooth Neighborhood* icon to make BT007 USB Dongle look for other Bluetooth-enabled devices in the vicinity and display those devices it detected in the window. The list below shows the entire services that remote bluetooth-enabled devices can provide:



- My 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.



-My Dial-Up Networking

Bluetooth client can dial-up to internet by using a modem that is physically connected to the Bluetooth server.



- My Fax

Bluetooth client can send a fax wirelessly by using a Fax machine that is physically connected to the Bluetooth server.



- My File Transfer

When File Transfer service is established between two Bluetooth-devices, you can easily browse, drag/drop, open, print, cut/copy, paste, delete, or rename files/folders in local device and remote device.



-My PIM Item Transfer (Information Exchange)

This service allows two Bluetooth-enabled devices exchange personal information manager data such as business cards, calendar items, email messages, and notes.



-My PIM Synchronization (Information Synchronization)

This service allows two Bluetooth-enabled devices to synchronize Personal Information Manager data each other.



- My Network Access

Establishes a wireless connection between the client and a server that is physically connected to the Local Area Network(LAN). If the client has permission from the server, the wireless connection can be used as if the client were hardwired to the LAN.



- My Audio Gateway

Allows the computer to use remote Bluetooth device's microphone and speakers as this computer's input and output devices. For example, if the computer has voice recognition capabilities, a Bluetooth headset might be used as the audio input device.



- My Headset

Allows the computer to provide audio input/output for remote Bluetooth devices. For example, if the remote device is a Bluetooth telephone, this computer's microphone and speakers can be used as speakerphone input and output for that device

2.2.1 Bluetooth Serial Port

The Bluetooth Serial Port service allows two Bluetooth devices to establish a wireless connection through virtual communications ports and then use the connections as if it were a hardwired serial cable between the devices.

To establish a Bluetooth Serial Port connection between two devices, in My Bluetooth Places window on the client:

1. Select a specific device you want to establish a connection, and then double-click on its icon. (If you don't see any devices in the Entire Bluetooth Neighborhood window, click mouse's right-button and then choose *Refresh* from the pop-up menu to look for Bluetooth-enabled devices) For Windows XP, click on 'View Devices in Range'.

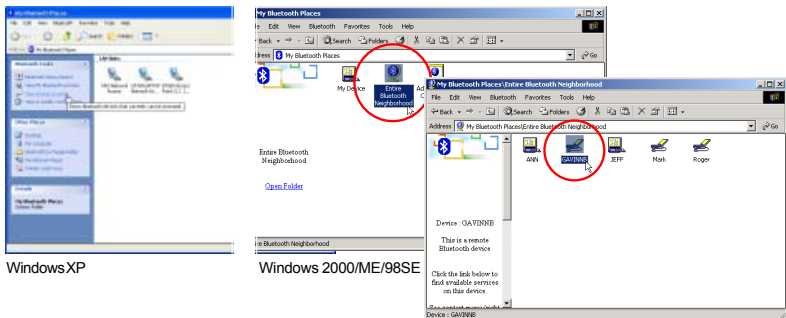


Figure 2.3 - Select the specific remote Bluetooth-enabled device

2. When the services window of remote Bluetooth-enabled appears, double-click on *Bluetooth Serial Port* service icon.

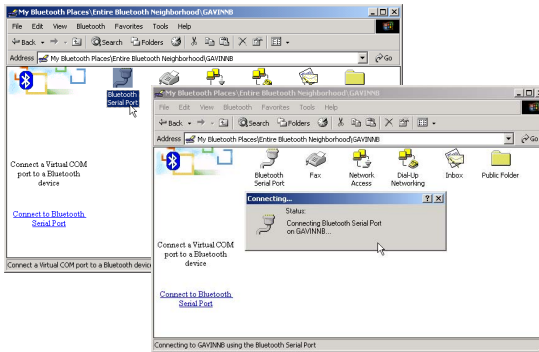


Figure 2.4 - Double-click the Bluetooth Serial Port service icon

3. The Serial Port service is in action when you see the icon color has changed from gray to green.

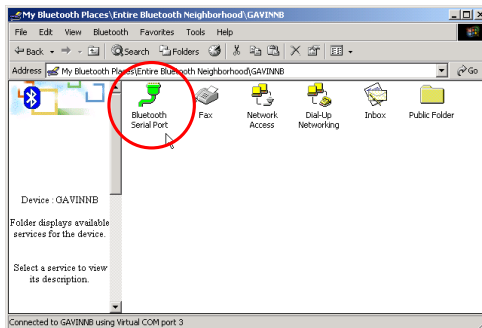


Figure 2.5 - Bluetooth Serial Port service is active

2.2.2 Dial-Up Networking

A local Bluetooth device can dial-up to internet by using a modem that is physically connected to a remote Bluetooth device through Dial-Up Networking service. Possible Dial-Up Networking devices include:

- Bluetooth-enabled computers with a modem connected.
- Bluetooth-enabled mobile telephone.
- Stand-alone Bluetooth-enabled modems.

After the Bluetooth wireless connection is established the client can use the remote device's modem as if it were a local device on the client.

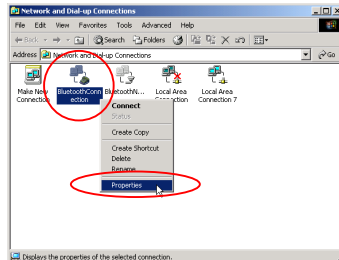
To establish a Dial-Up Networking connection, please follow the steps:

Part 1. Network setting

1. Select *Start --> Settings --> Control Panel --> Network and Dial-up Connections*
2. Right-click on the *Bluetooth Connection* icon in the *Network and Dial-up Connections* window as below, and then select the **Properties** in the pop-up menu.



WindowXP



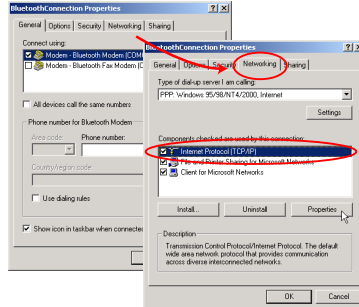
Window2000/ME/98SE

Figure 2.6 - Select Bluetooth Connection icon

3. Switch to *Networking* tab from *Bluetooth Connection* window.
4. Select the item *Internet Protocol (TCP/IP)* from the list of *Components checked are used by this connection*, and then press the *Properties* button



Window XP



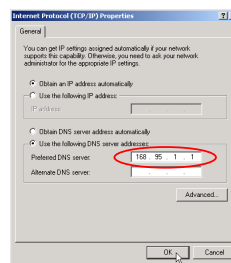
Window2000/ME/98SE

Figure 2.7 - Bluetooth Connection settings

5. In *General* tab of *Internet Protocol (TCP/IP) Properties*, make sure the *Use the following DNS server addresses* is checked, and input a DNS server address.
6. Press “OK” button to save the changes.



Window XP



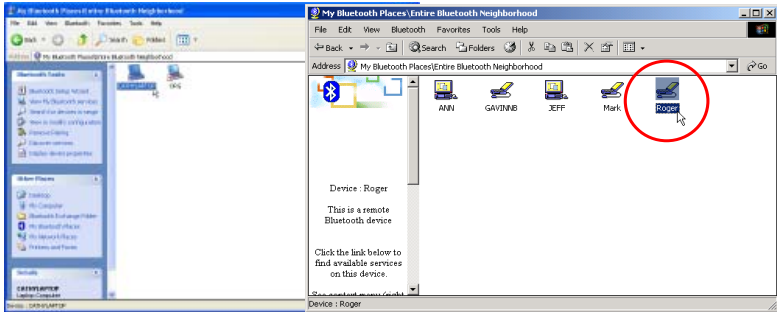
Window 2000/ME/98SE

Figure 2.8 - Bluetooth Connection settings

Note: The DNS server address which you inputted must be a existing and active in internet. Otherwise, it may occur to get a null response from internet. If you encounter such a situation, we recommend changing another DNS server address.

Part 2. Dial-up

1. Select a specific device you want to establish a connection, then double-click on it's icon. (If you don't see any devices in the Entire Bluetooth Neighborhood window, click mouse's right-button and then choose *Refresh* from the pop-up menu to look for Bluetooth-enabled devices)

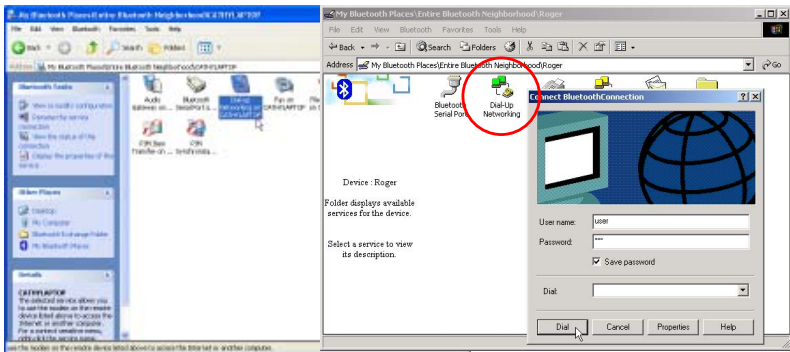


WindowXP

Window2000/ME/98SE

Figure 2.9 - Dialing Up

2. When the services window of remote Bluetooth-enabled appears, double-click on *Dial-Up Networking* service icon.
3. Fill in your user name, password and the phone number in the dialog box, then press Connect button. (Note: The username, password and phone number are usually provided by ISP)



WindowXP

Window2000/ME/98SE

Figure 2.10 - Dialing Up

4. Start your Microsoft IE or Netscape Internet browser to wirelessly surf on Internet.



Figure 2.11 - Browsing Internet

--- **Dial-up Networking example** ---

The Ericsson T39 mobile phone has built-in the Bluetooth™ technology. In actual application, besides combines with the Bluetooth headset, it also can perfectly collaborate with Bluetake USB Dongle/Adapter to achieve the goal “wireless internet” . We provide the most convenient and simplified dial-up Networking connection between the Bluetake USB Dongle/Adapter and the Ericsson T39:

1. Read the instruction on Bluetake USB Dongle/Adapter User Guide to install Bluetooth™ software and plug the USB Dongle/Adapter into the USB port on desktop/laptop.
2. Select and enter [5.Extras] tab by using up/down arrow on the T39's panel.
3. Select and enter [5.Bluetooth] sub-menu by using up/down arrow in *Extras* screen.
4. Select and enter [4.Operation Mode] item, and then set the operation mode as [On].

5. Exit [4. *Operation Mode*] and enter [3. *Discover*] , and then T39 will start to look for other Bluetooth devices in the vicinity. All available Bluetooth devices will display after the search. Select the one you are going to connect to and then press “YES” button. Press “YES” button again when the screen shows <Add to paired ?>, and then enter a certain passkey for the pairing later.
6. A message will appear close to the Bluetooth icon in the Windows toolbar as soon as pressed the passkey in T39. Move the cursor upon the icon and click it, and then enter the same passkey when a dialog box appears.
7. Once the process given above is finished, then you can use the Dial-up Networking service. Double-click on the icon of My Bluetooth Places on the Windows desktop. In the Entire Bluetooth Neighborhood windows choose the icon of paired mobile phone you are going to dial-up, and then select the Dial-up Networking service.
8. WAP: Enter your username, password, and dial number; GPRS: Enter the dial number provided by the local telecommunication company.

Note: The Dial-up service won't function if you don't apply for the GPRS or WAP service.

2.2.3 Network Access

Bluetooth client can use the Network Access service to connect to a Bluetooth server which is physically connected to the Ethernet. Only one Network Access connection can be accessed at the same time. The connection must be closed before the client can discover services or create another connection.

Possible Network Access services include:

- Bluetooth-enabled computers that have a actual Ethernet connection.
- Stand-alone Bluetooth Network Access Points.

The function “**Internet Connection Sharing**” must be first specifically configured in the device, which provides Network Access service. Once a Bluetooth device is configured for providing Network Access service it can't act as a Network Access client without being re-configured.

To enable the Network Access service to allow other Bluetooth devices , please setup the following configuration depends on the operating system you are using:

Step 1. Configuration in *Windows 2000* or

Configuration in *Windows 98SE / Windows ME*

Note: Both of Windows XP and Windows 2000 support “Internet Sharing” function. Therefore you don’t have to install the WinRoute Lite on these operating systems.

Step 2. Connect to LAN (Local Area Network)

- Configuration in Windows XP/2000 (server side) -

The *Internet Connection Sharing* option in “Sharing tab” can only be configured to *enabled* on the Bluetooth server that provides the Network Access service to clients. Otherwise, a connection failure will result from trying to establish the Network Access service.

1. From the Windows *Start/Control Panel*, select *Network and Dial-Up Connections*.

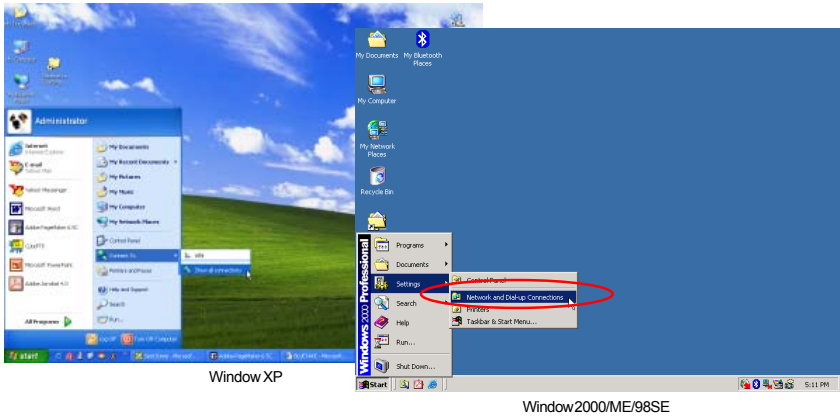


Figure 2.12 - Internet Connection Sharing-1

2. Right-click the *Local Area Connection* icon and select its *Properties*.

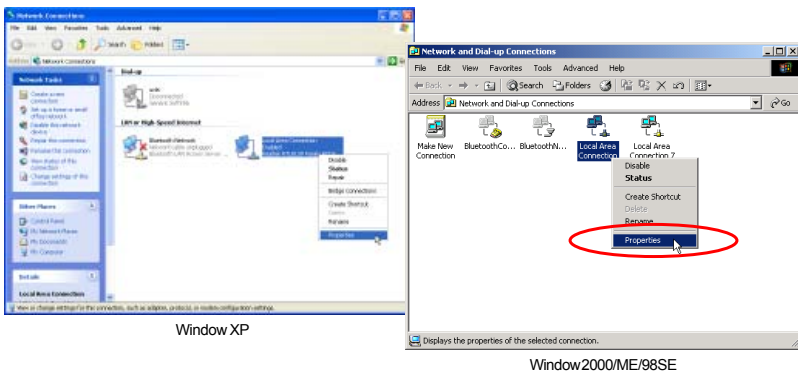


Figure 2.13 - Internet Connection Sharing-2

Note: Please refer to page 37 for Windows 98SE / Windows ME settings.

3. In the Local Area Connection Properties dialog box on the Sharing tab, select *Enable Internet Connection Sharing for this connection* and click OK.
4. Click Yes button in the confirmation dialog box to enable *Internet Connection Sharing* function.

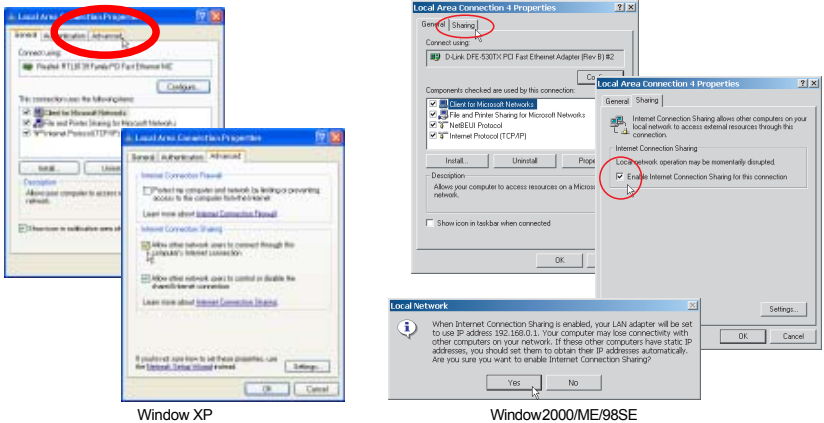


Figure 2.14 - Internet Connection Sharing-3

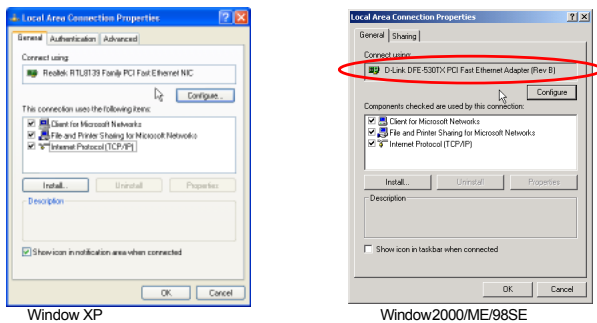


Figure 2.15 - Identify the LAN card

- Configuration in Windows 98SE/ME -

It is necessary to use an Internet Protocol routing software on Windows 98SE(Second Edition) and Windows ME operating systems. You can get a downloadable trial version copy of WinRoute Lite software from the website <http://www.kerio.com/> *.

Configure the server:

1. Open the Windows *Start / Settings / Control Panel*, and double-click on the *Network* icon in the Control Panel window.

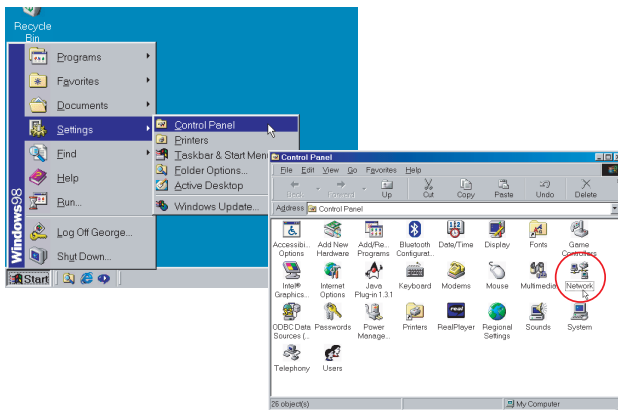


Figure 2.16 - Network configuration.1

Note: Bluetake makes no endorsements with regards to use of the software.

2. On the *Configuration* tab, select *TCP/IP -> Bluetooth LAN Access Server Driver* in the Network components list (scroll down if necessary). Then click *Properties* button.

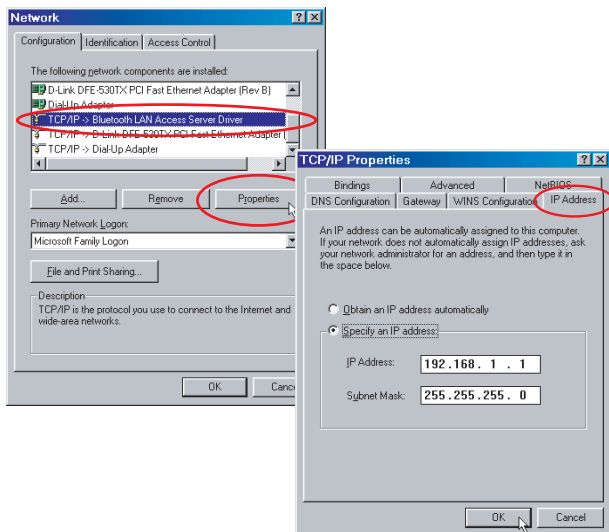


Figure 2.17 - Network configuration.2

3. Select the *IP Address* tab in the TCP/IP Properties window.
4. Select *Specify an IP address* and enter:
 - IP Address (suggested value: 192.168.1.1)
 - Subnet Mask (suggested value: 255.255.255.0)
5. Click OK twice to close the dialog boxes.
6. Click YES to restart the computer.

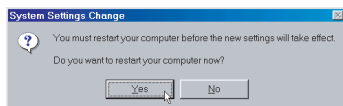



Figure 2.18 - Restart the computer

Configure the WinRoute Lite Administration:

1. In the Windows system tray, double-click on the WinRoute icon () or right-click the WinRoute icon, then select *Administration...*
2. Select the *Setting* tab when the WinRoute Lite Administration window appears.

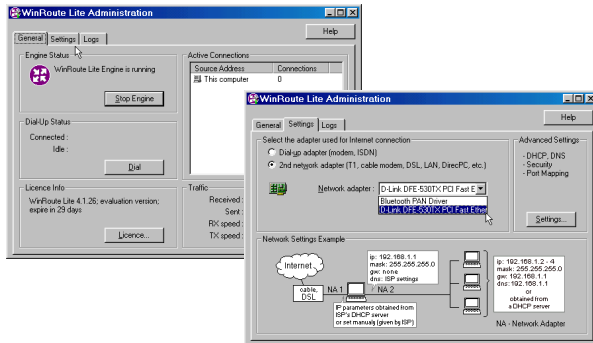


Figure 2.19 - WinRoute Lite Administration window

3. In the *Settings* tab, select “2nd network adapter (T1, cable modem, DSL, LAN, DirectPC, etc.)” and choose the network adapter that physically connects to Internet/LAN from the Network adapter drop-down list.
4. Press “Settings...” button in the Advanced Settings section on the right side of *Settings* tab.



5. In the *DHCP* tab, select *Bluetooth PAN Driver* from the “Select LAN Adapter” drop-down list.
6. Enable the *Enable DHCP server* checkbox, and then fill in the client IP address range fields:
 - From : 192.168.1.**210**
 - To : 192.168.1.**240**

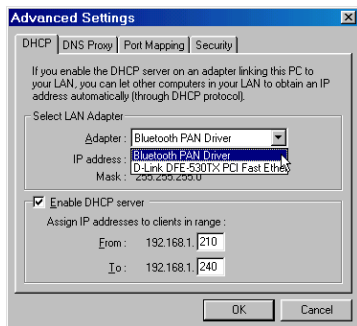


Figure 2.20 - DHCP tab

7. Click OK and then minimize (DO NOT close) the WinRoute Administration window.

Note: Please refer to page 35 for Windows 2000 settings.

- Connect to LAN -

To open a Network Access connection:

1. Select a specific device you want to establish a connection, and then double-click on it's icon. (If you don't see any devices in the Entire Bluetooth Neighborhood window, click mouse's right-button and then choose *Refresh* from the pop-up menu to look for Bluetooth-enabled devices) For Windows XP, click on 'View Devices in Range'.

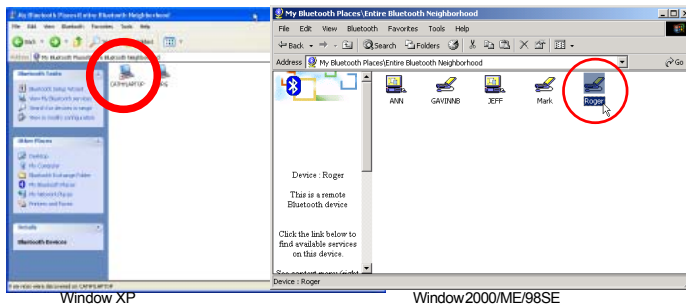


Figure 2.21 - Select a server which will be connected

2. When the services window of the remote Bluetooth-enabled device appears, double-click on *Network Access* service icon.

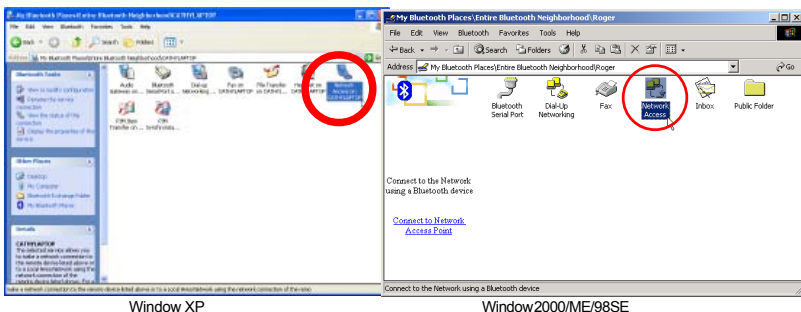


Figure 2.22 - Select the Network Access service in the window

- The connection is communicating with the remote Bluetooth-enabled device. It may take 5 ~ 15 seconds to establish the connection. (Note: You can ignore the requests of username and password if there is a dialogue box appears.)

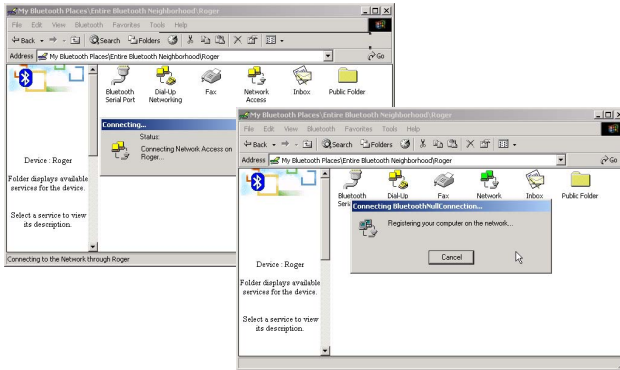
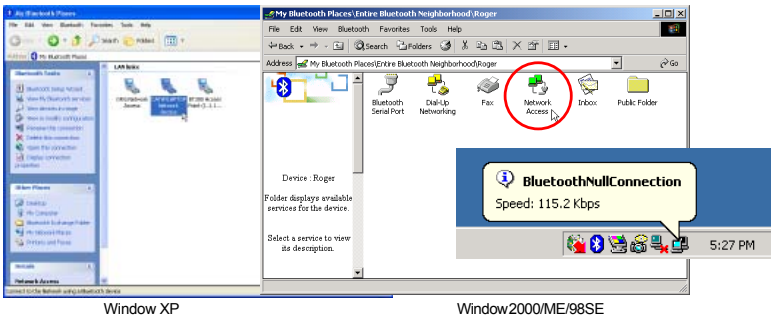


Figure 2.23 - Network Access is connecting

- When the connection is established, the Network Access icon will turn to be green color. In addition, you will find there's an icon shows up in the Windows toolbar.



Window XP

Window2000/ME/98SE

Figure 2.24 - Network Access established

There are two methods to disconnect a Network Access service:

- 1) Double-click on the Network Access icon. The icon will turn to be gray when the connection is stopped.
- 2) Right-click on the Network Access icon and choose “*Disconnect Network Access*” from the pop-up menu.

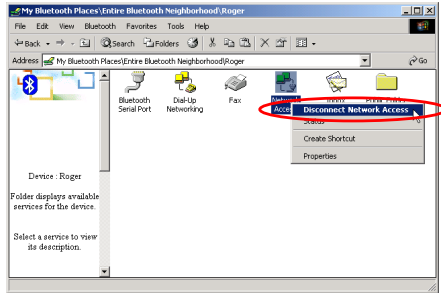


Figure 2.25 - Disconnect Network Access from pop-up menu

2.2.4 File Transfer

The File Transfer service allows a Bluetooth client to perform file operations on the default File Transfer directory and the folders and files it contains.

To perform an operation on a folder or file by right-clicking it and choosing an option from the pop-up menu:

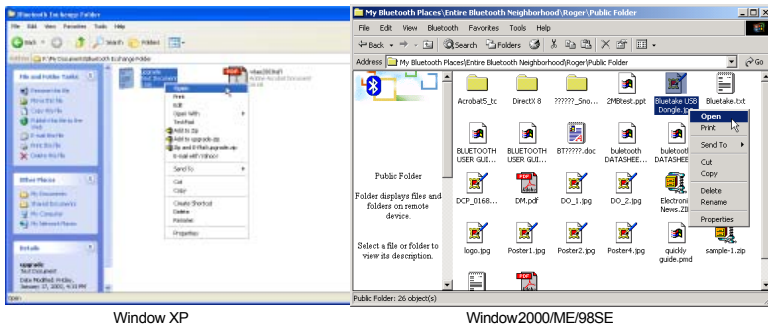


Figure 2.26 - File Transfer service

- **Open.**

Files --- Opens them with the specific associated application

Folders --- Shows their contents.

- **Print.**

Sends the selected file to the client's default printer.

- **Send to.**

3.5" Floppy Drive --- Copies the selected item(s) on the server to the client's 3.5" floppy drive.

My Shared Folder --- Copies the selected item(s) on the server to the default File Transfer folder (called *Public Folder*) on the client.

- **Cut.**

Cuts folder(s) or file(s) to the Windows clipboard. When the clipboard contents are pasted to a new location, the originally selected file(s) on the server are deleted.

- *Copy.*
Copies folder(s) or file(s) to the Windows clipboard.
- *Delete.*
Deletes selected file(s) and/or folder(s) on the server.
- *Rename.*
Allows you to change an empty folder's name.
- *Properties.*
Displays the file or folder's properties dialog box.

Other options that may appear, depending on the context the menu appears in:

- *Update.*
Updates the contents of a folder.
- *New Folder.*
Creates a new folder on the server.
- *Abort FTP Operation.*
Aborts an in-process File Transfer operation.

2.2.4.1 Send To Bluetooth

The “Send to Bluetooth” is a new feature. It provides you a most convenient way to send various informations to other Bluetooth devices.

Furthermore, this feature also allows documents to be sent directly from Microsoft Office applications. With the “Send to Bluetooth” feature integrated in the Microsoft Access, Excel, Outlook, Powerpoint, or Word, you don’t need to save documents and then select them from Windows Explorer to transfer any more.

To use **Send To Bluetooth** function:

- a) In the Windows Explorer -

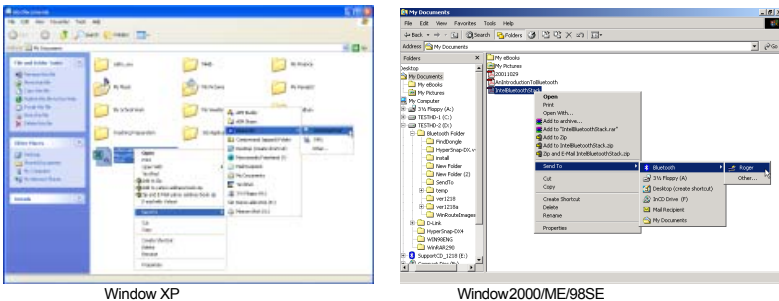


Figure 2.27 - Send To Bluetooth

1. As shown in 5.2.4.1, select the file(s) you want to send to another Bluetooth device.
2. Choose [Send To] from <File> menu, and then choose [Bluetooth] from pop-up menu.

There is another swift way to perform the action:

1. Select the file(s) you want to send to another Bluetooth device.
2. Click on the right button of mouse, then choose [Send To --> Bluetooth] from pop-up menu.

Note: 1. *Send To Bluetooth* function is only used to transfer file(s).

2. *Send To Bluetooth* function will overwrite the original file without asking when transferring file that has the same name.

“Other...” appears in the menu when first time you use the *Send To Bluetooth* function. Select it and press *Find Device* or *Refresh* button from the window to look for other Bluetooth-enabled devices in the vicinity.

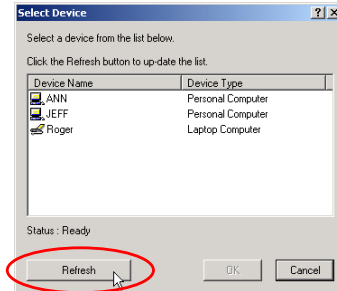


Figure 2.28 - Select Device list

- b) In the Microsoft Office application -
Choose [Send to Bluetooth] from <File> menu, and then select one Bluetooth device you want to deliver.

2.2.5 PIM Item Transfer (Information Exchange)

It is convenient to send and receive Microsoft Outlook items from/to another Bluetooth device via using the Information Exchange service. The service includes PDA or laptop computer. Supported Outlook items are:

- Business cards (*.vcf and *.vcd)
- Calendar entries (*.vcs)
- Notes (*.vnt)
- Messages (*.vmg)

And there are three types of operation:

- *Send.*

Send an object to another device.

- *Receive.*

Receive an object from another device.

- *Exchange.*

Send a client object and receive a server object.

To send, receive or exchange an object, right-click the Inbox icon of the remote device and select an option from the pop-up menu.

To send Calendar Items, Notes and Messages, navigate to the folder that contains the item you want to send (via a standard Windows dialog box), select the item, and then click Open.

2.2.6 PIM Synchronization (Information Synchronization)

The Information Synchronization service is used to synchronize information (e.g., a PIM database) between Bluetooth devices:

BTW supports synchronization with devices that support IrMC v1.1 and exchange the v2.1 vCard format.

The first time Information Synchronization is used with a new application it may take a few minutes to synchronize the database; the data from both devices must be merged, duplicate entries deleted, and then the updated database copied back to both devices.

Subsequent uses of Information Synchronization, for the same application, are much faster - only the changes that have been made since the database were last synchronized must be exchanged.

Microsoft Outlook is the only Personal Information Manager supported in this release of BTW. Outlook permits duplicate entries, so all duplicates may not be exchanged in the synchronization process.

Only Outlook's default contacts folder is synchronized. Items in sub-folders are not synchronized. Items that are moved from the default folder to a sub-folder will appear to have been deleted the next synchronization takes place.

Therefore, before enabling the 'Information Synchronization' service in 'My Device' window, ***please make sure a PIM program such as Microsoft Outlook has been installed in your computer.*** Next page depicts the detailed steps to activate the PIM function in *Information Exchange* tab in *Bluetooth Configurator*.

To use Information Synchronization:

1. Double-click *Search For Devices*
2. Right-click the server you want to synchronize with and select *Discover Available Services*.
3. Double-click the Information Synchronization icon.

A dialog box displays progress and, when the process is complete, indicates that synchronization successfully completed.

The connection closes automatically when synchronization is complete.

Note: The setup menu ,options and operation are all the same no matter what version of windows is installed in your computer.

2.2.7 Fax service

The Fax service allows a Bluetooth client to wirelessly send a fax using a device that is physically attached to a Bluetooth server.

To send a Fax:

1. Double-click *Entire Bluetooth Neighborhood* icon and search for other devices
2. Right-click the server you want to establish a connection with and select *Discover Available Services*
3. Double-click the Fax icon.
4. After the Fax connection is established, open or create the document to be faxed and use the "Print" or "Send to Fax Recipient" option available in most applications.

The Fax connection closes automatically when the transmission is complete.

3. Other Applications

3.1 Working with BT200 Printer

The BT200 Bluetooth Printer Adapter allows wireless access to your printer from any bluetooth devices. To begin, you must have your printer installed on your computer and be able to print normally.

The BT200 Bluetooth Printer Adapter runs on a virtual serial port connection, thus before connecting the adapter to the printer, you must set up the virtual serial COM port interface. To begin, go to your *BTW Console* located on the bottom right hand corner of your Windows Toolbar. Right click and choose '*Advanced Configuration*'.

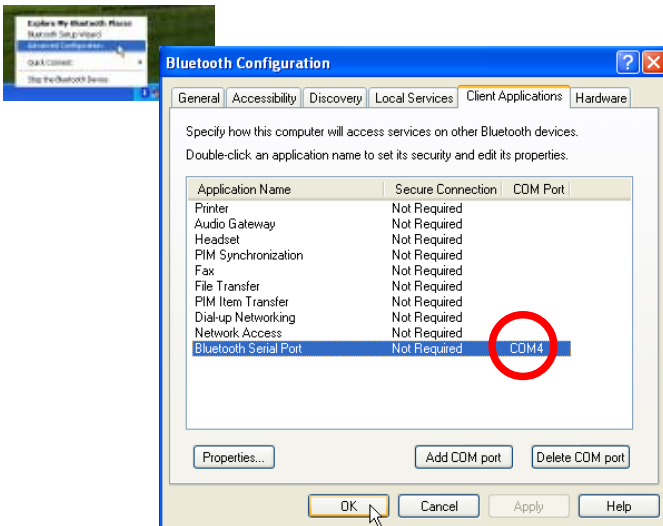


Figure 3.1 Local Services to find COM port number.

Locate the 'Bluetooth Serial Port' number your computer is running on. In this example, the virtual serial port is running on COM4.

Now go to your Printer window by going to *Start* then, *Printer and Faxes*. Right click on the printer you will connect your BT200 Bluetooth Printer Adapter to; then choose *Properties*.

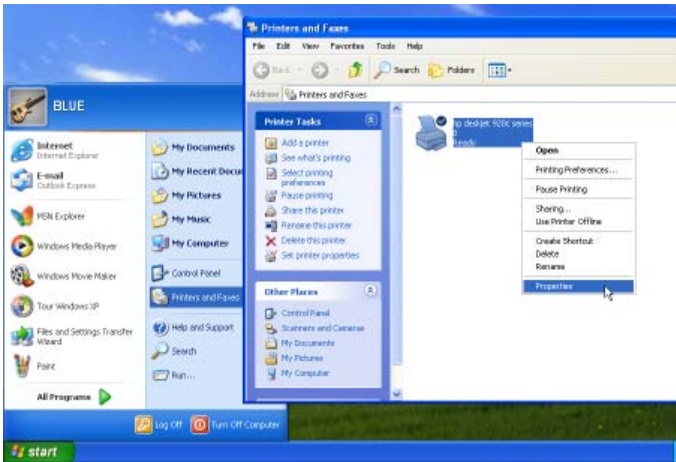


Figure 3.2 Printers Window.

Now the Printer Properties window will appear. Select the *Port* tab. Change the Printer from its original port, in this case USB, to the COM port indicated from you 'Bluetooth Serial Port', in this case COM4. To change the COM port, scroll up or down and select COM port. Then, click *OK* to finish configuring your printer port.

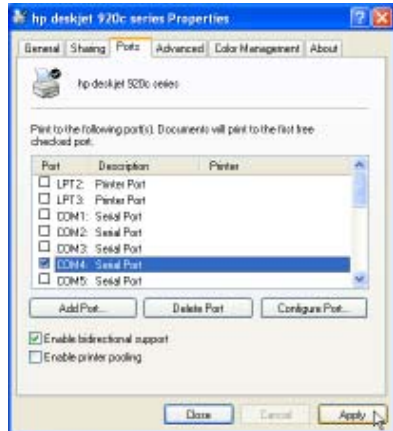
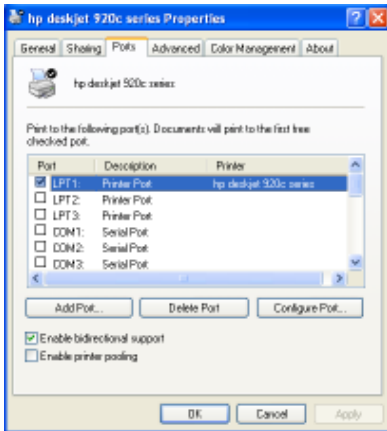


Figure 3.3 Configuring Printer to COM4.

Note: Make sure that your virtual Bluetooth Serial Port is running on the same COM port as your Printer.

Now you are ready to plug-in the BT200 Bluetooth Printer Adapter to your LPT or parallel port located on your printer. Then plug-in the power supply to your BT200 Printer Adapter. The led lights will begin to flash once you plug in the electricity. If a purple LED lights up, please replug-in the electrical plug, it indicates that the electricity was plugged in unsuccessfully. If a blue LED lights up, you are successful, now you are ready to go to the next step. Purple LED also lids up to indicate incoming data when printer is printing.

After configuring your printer COM port and plugging in the BT200 Bluetooth Printer Adapter, you are now ready to configure your BT200 Bluetooth Printer Adapter to your Bluetooth Services. To begin, go to your *BTW Console* located on the bottom right hand corner of your windows Toolbar. Right click and choose the '*Bluetooth Setup Wizard*'. Once the Setup Wizard window opens, choose option 1, then click *Next*.



Figure 3.4 Configuring BT200 using Bluetooth Setup Wizard

The Bluetooth Service Selection window will open, choose the *Bluetooth Serial Port* option.

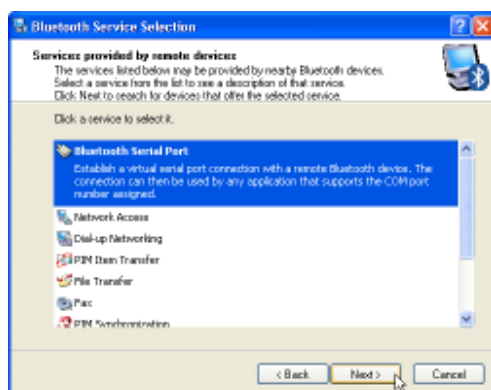


Figure 3.5 Bluetooth Service Selection Window

After clicking *Next* the Bluetooth Device Selection window will open. Then, from the stretch menu choose 'Show printers, cameras, and scanners'. Then click on the *Refresh* button. Now, your bluetooth ready printer is detected.

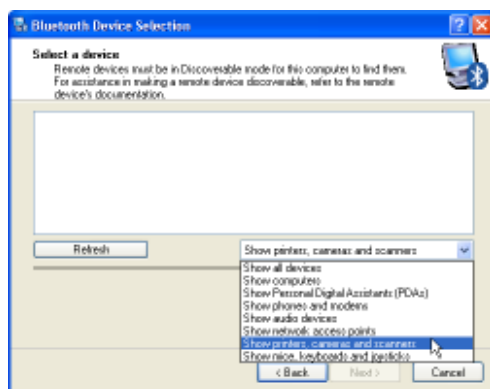


Figure 3.6 Bluetooth Device Selection Window

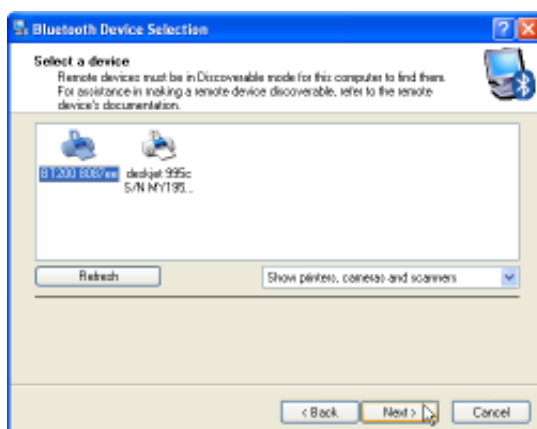


Figure 3.7 Detecting your Bluetooth Printer.

Once the computer has detected the Bluetooth printer, click *Next*. Now you are ready to use your wireless Bluetooth printer. Check the 'Create a shortcut ...' to allow easy access to your Bluetooth printer in the future. Click *Finish*.

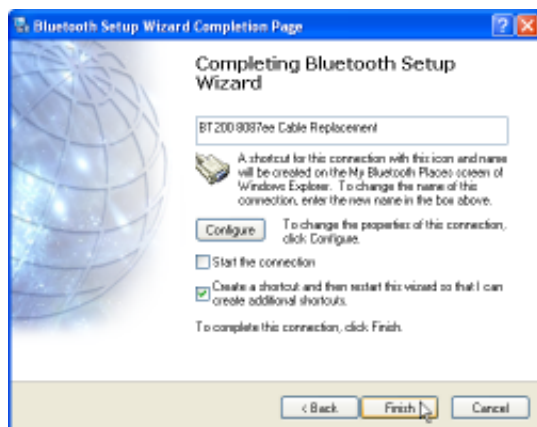


Figure 3.8-1 Creating a shortcut to your Bluetooth Printer.

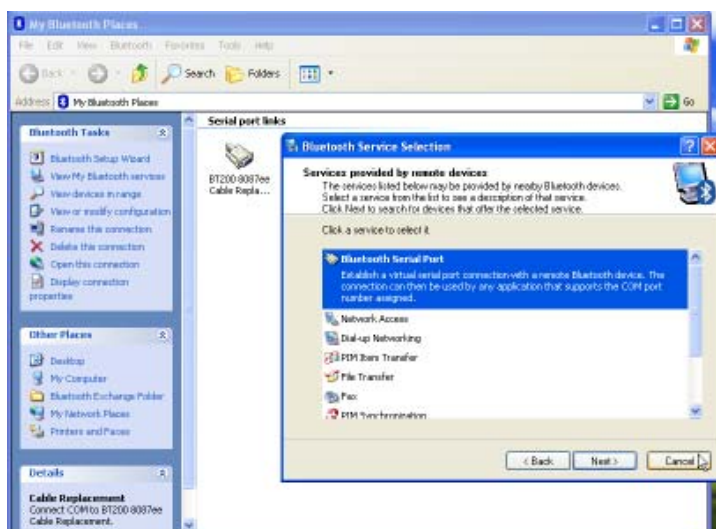


Figure 3.8-2 Creating a shortcut to your Bluetooth Printer.

To use your Bluetooth Printer, you must connect to it. Everytime you want to print, you must connect to your printer. To do so, right click on your BT200 Printer icon located in *My Bluetooth Places*, then choose, *Connect*. After you have finished printing, the Bluetooth Printer will disconnect from your computer automatically. If you would like to disconnect without printing, right click and choose *Disconnect*.

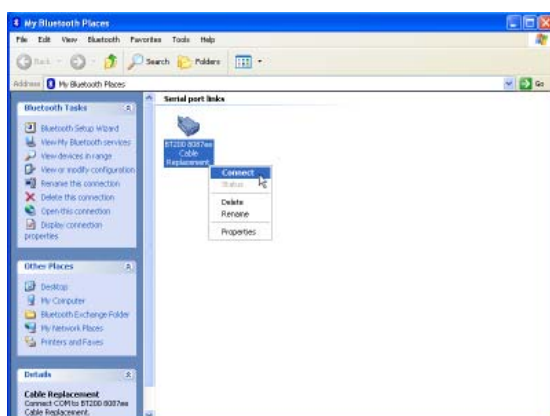


Figure 3.9 Connecting to your BT200 wireless Printer device.

3.2 Working with BT300 Access Point

The BT300 Bluetooth Access Point provides wireless Internet Access to up to 7 Bluetooth slave devices simultaneously.

To set up BT300 Bluetooth Access Point please refer to the instruction manual located inside the BT300 box. Once the BT300 is set up you are ready to begin configuration of your Access Point on your computer.

To begin configuration, go to your *BTW Console* located on the bottom right hand corner of your computer. Right click and choose the '*Bluetooth Setup Wizard*'. Once the Setup Wizard windows open, choose option 1, then click *Next*.

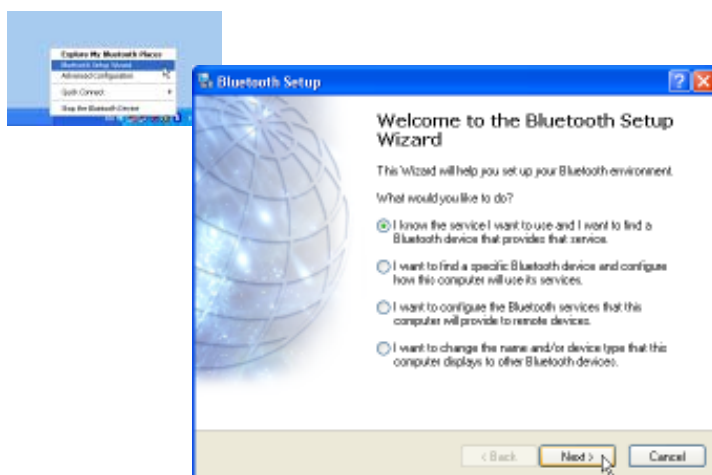


Figure 3.10 Configuring BT300 using Bluetooth Setup Wizard

The Bluetooth Service Selection window will open, choose the *Network Access* option.

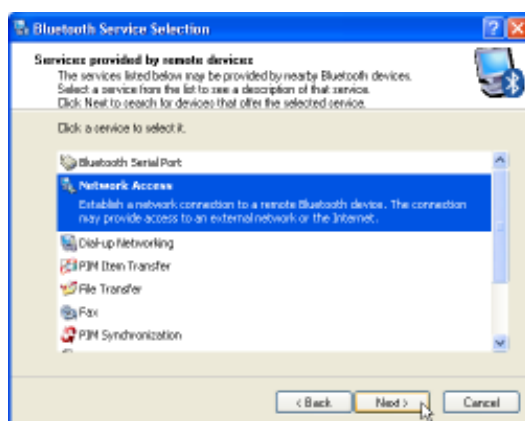


Figure 3.11 Bluetooth Service Selection Window

Select the 'Show network access points' to detect network access points.

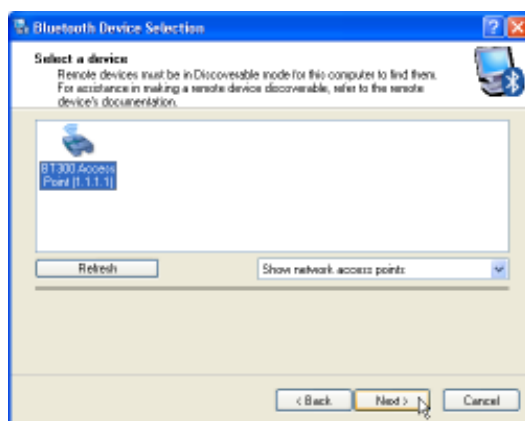


Figure 3.12 Bluetooth Device Selection Window

Once the BT300 Access Point is detected, click on the *BT300 Access Point* icon and click *Next*.



Figure 3.13 Completing Access Point setup.

Click on the *Finish* button to connect to your Internet access. Make sure your '*Start the Connection*' is checked.

Note: To setup your IP configuration settings, please refer to the instructions that came along with your BT300 Access Point Installation Guide.

3.3 Working with BT400 Bluetooth Headset

The BT400 Bluetooth Headset provides wireless connection to your any of your Bluetooth devices, i.e. computer, cellular phone, and etc... Enjoy your wireless headphones to listen to music and talk to others anywhere within the bluetooth range!

To begin, turn on your headphone by pressing the button located on the top of your headphone for 10 ~ 11 seconds or until a series of red/green flashes begin to flicker. This indicates that the headphone is ready for pairing. Now open 'My Bluetooth Places' by using the *BTW Console* located on the bottom right hand corner of your Windows Toolbar.

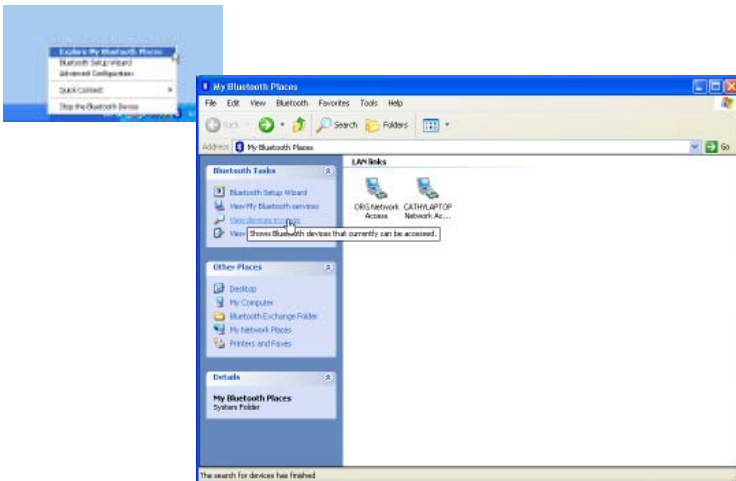


Figure 3.14 My Bluetooth Places Window

Now, select 'View device in range' to have your computer search for the BT400 Headphone.

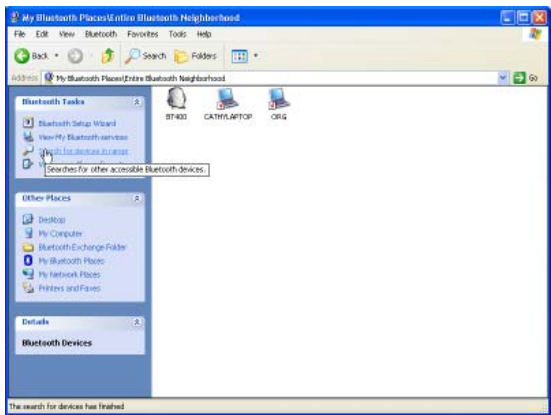


Figure 3.15 Entire Bluetooth Neighborhood Window

Once the BT400 Headphone is detected, you must pair your headphone to your computer for proper usage. By pairing your device you are giving security access to your headphone; this prevents other headphones to be linked to your computer if you have two headphones on at the same time. You would only need to pair your headphone once. To begin right click on the BT400 icon located in the '*Entire Bluetooth Neighborhood*' window. Then, select '*Pair Device*'.

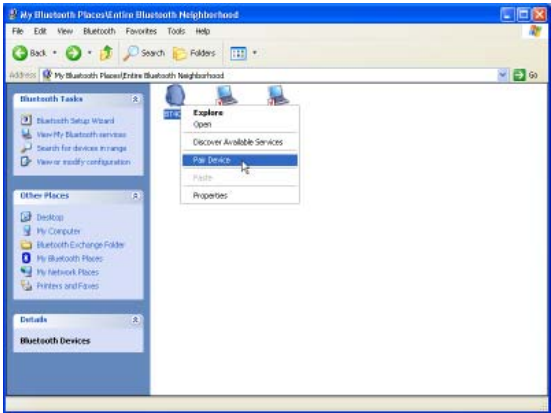


Figure 3.16 Pairing BT400 in Entire Bluetooth Neighborhood Window

The *Pin Code Request* window will open and ask you for the security code for your device. The BT400 Headphone default passkey is always "0000" (four zeros); type "0000" to pair to your Headphone. Then click 'OK'.

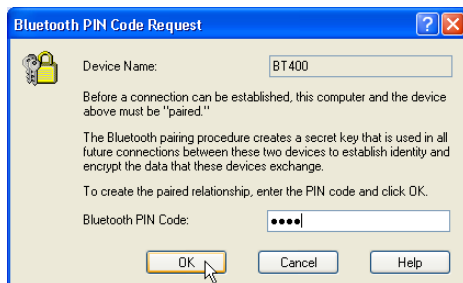


Figure 3.17 Pin Code Request Window to pair to your BT400 Headphone.

Now, your BT400 Headphone will begin to flash green light; press on the button on top of your Headphone to confirm pairing. Then on your screen the BT400 icon will have a red check marked to indicate that the device is successfully paired.

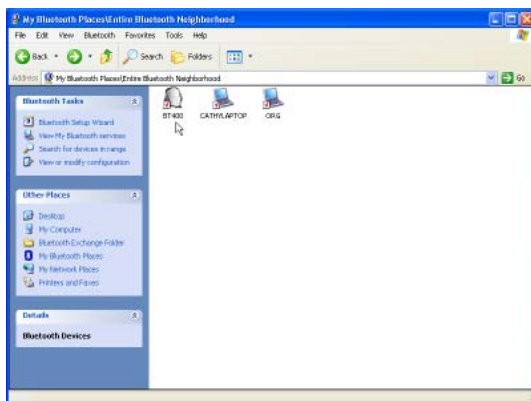


Figure 3.18 Checked icon to indicate pairing success.

You are now ready to connect and use your BT400 Headphone. To connect to your Headphone, just simply double click on your BT400 icon to connect to your Headphone.

Note: Once you are connected to your BT400 Headset, it becomes your default speaker and microphone. You can now use it to listen to MP3's on your system!

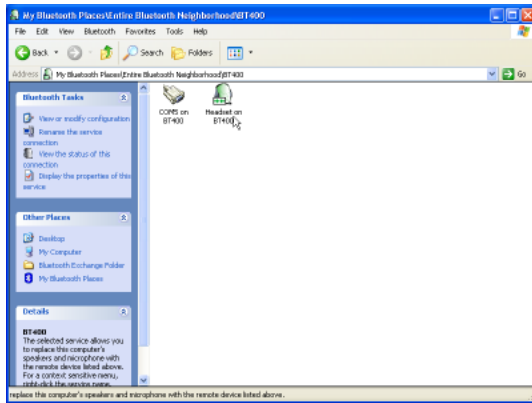


Figure 3.19 Green arrows to indicate connection to BT400.

The two green arrows located on the BT400 icon indicates that you are now connected to your Headphone. To disconnect, simply right click on the icon and choose *'Disconnect Headset'*.

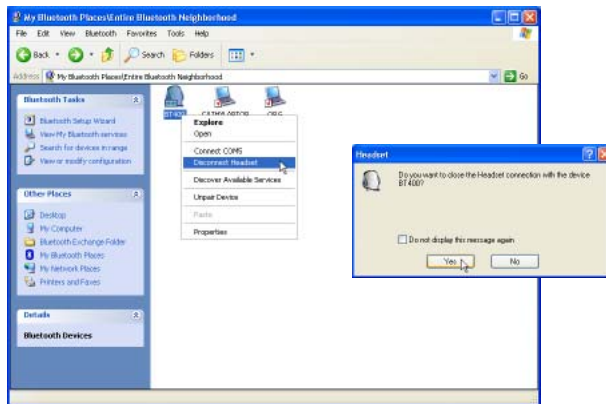


Figure 3.20 Right click to disconnect BT400.

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