Bluetooth Application Note

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against radio interference in a commercial environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

CE Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022/A1 Class B, and EN 50082-1. This meets the essential protection requirements of the European Council Directive 89/336/EEC on the approximation of the laws of the member states relation to electromagnetic compatibility.

FCC Notices

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and

(2)This device must accept any interference received, including interference that may cause undesired operation.

" FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction With any other antenna or transmitter. "

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Index

<u>1. Bluetooth software installation and basic operations</u>
 <u>Application note for Windows 98/ME/2000/XP:</u>
 <u>2. Network sharing setting for Windows</u>
 <u>3. File transfer setting for Windows</u>
 <u>4. Dial-up networking setting for Windows</u>
 <u>5. FAX setting for Windows</u>
 <u>6. PIM Item Transfer setting for Windows</u>
 <u>7. Information Synchronization setting for Windows</u>
 <u>8. Serial port setting for Windows</u>
 <u>9. ActiveSync setting for Windows</u>
 <u>10.Audio Gateway setting for Windows</u>

Installing Bluetooth software for WinCE

Application note for WinCE:

1. Network sharing setting for WinCE

2. File transfer setting for WinCE

3. Dial-up networking setting for WinCE

4. Serial port setting for WinCE

5. ActiveSync setting for WinCE

6. Hosting a Personal Area Network for WinCE

Installing Bluetooth on MAC O.S.

How to pair with my mobile phone

1. How to pair with Nokia 6310

2. How to pair with Nokia 8910

3. How to pair with Ericsson T39m

4. How to pair with Ericsson T68

5. How to sync with Ericsson T68 via XTNDConnectPC

6. How to sync with Nokia 7650 via Nokia PC Suite for 7650

Others Applications:

1. How to setup HyperTerminal for Bluetooth transfer

2. How to HotSync with Palm Bluetooth SDIO/ Palm Tungsten T

3. How to dial-up from Palm Tungsten T to my PC's modem to surf the Internet

Troubleshooting

Q1. Why doesn't my Bluetooth device find any nearby Bluetooth devices?

Q2. Why doesn't my CF card work after I unplug and later plug-in again?

Q3. Why can't I transfer files from Nokia 7650 to my PC?

Q4. Why some devices within connection range may not show up in the list of devices found?

1.Bluetooth software installation and basic operations

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

For USB Bluetooth adapter please install Bluetooth software before inserting the USB adapter.

Installing Bluetooth software for Windows

 Place installation CD into PC and setup should launch automatically.
 If setup does not launch, use Windows Explorer to navigate to the appropriate CD-ROM drive and run "Bsetup".



(2) Please select your device and O.S..



- (3) Complete these steps to install Bluetooth software:
- (4) Exit all applications.
- (5) InstallShield Wizard setup dialog box will automatically be displayed. If the setup program doesn't startup automatically, manually start the setup program by double clicking Bsetup.exe.
- (6) Follow the instructions on screen:
- (7) On the *Welcome* screen, click the **Next** button.



(8) 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.

🔀 Bluetooth Software 1.3.2.7 - InstallShield Wizard
License Agreement Please read the following license agreement carefully.
Manufacturer ("MANUFACTURER") IS WILLING TO LICENSE THE 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
 I accept the terms in the license agreement I do not accept the terms in the license agreement InstallShield < Back Next > Cancel

(9) You can choose the destination folder in your system, If you do not want to change the destination folder please click **Next**.

🔀 Bluetooth Software 1.3.2.7 - InstallShield Wizard	×
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.	E
Install Bluetooth Software 1.3.2.7 to: C:\Program Files\Bluetooth Software\	<u>C</u> hange
InstallShield	Cancel

(10) 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.

🖟 Bluetooth Software 1.3.2.7 - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield.

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



(12) For Windows 2000/XP users, system will popup a "**Driver Signature Notice**", please click the "**OK**" button.

Bluetoot	h device not found
⚠	No Bluetooth device was detected. Please make sure that your Bluetooth device is plugged in properly and click 'OK' to continue installation. Click 'Cancel' to continue installation without the Bluetooth device.
	OK Cancel

(13) During the installation, system will detected your Bluetooth device please make sure your Bluetooth device is plugged in properly and click "**OK**" to continue installation, or you can click "**Cancel**" to continue installation without the Bluetooth device.



(14) Installation completed please click "Finish".

🖟 Bluetooth Software Installer Information						
<u>.</u>	You must restart your system for the configuration changes made to Bluetooth Software to take effect. Click Yes to restart now or No if you plan to restart later.					
	<u>Y</u> es <u>N</u> o					

(15) Click **"Yes"** to restart your computer. If you plan to restart later, click **"No"**.

(16) After reboot and Windows comes back up again, insert your USBBluetooth adapter into the PC's USB port, if you haven't done so during the installation, and the system will install the driver for your device automatically.(17) Do not reboot. Your device is now ready to be used.

(18) **To start Bluetooth:** in the Windows system tray, right-click the Bluetooth icon and

select "Start Bluetooth Device". The Bluetooth icon is blue in color with a white insert

when Bluetooth is running.



(19) **To stop Bluetooth:** in the Windows system tray, right-click the Bluetooth icon and select

"Stop Bluetooth Device". The Bluetooth icon is blue in color with a red insert when

Bluetooth is stopped.



Create a connection from the Bluetooth icon in the system tray

In the Windows system tray, right-click the Bluetooth icon, select Quick Connect and

then the Bluetooth service that you wish to use.

If this computer has created a connection to the desired type of service in the past, the options on the shortcut menu are:

- The name(s) of any device(s) with which prior connections to this type of service have been established. Select a name from the list to re-establish connection.
- Other Devices-Select this option to search for additional devices that potentially provide the desired service, select a device from the list, and then click Connect.

If this computer has never created a connection to this type of service, the only option on the shortcut menu is "Find Devices". Select this option to search for devices that potentially provide the desired service, select a device from the list, and then click Connect.

Create a connection using the Bluetooth Setup Wizard

(1) From Bluetooth Explorer

- Right-click My Bluetooth Places and select Bluetooth Setup Wizard or
- From the Bluetooth menu, select Bluetooth Setup Wizard

From the Windows system tray: right-click the Bluetooth icon and select **Bluetooth Setup Wizard**.



(2) The "Initial Bluetooth Configuration Wizard" will pop up. Click "Next" to the next page.

💱 Initial Bluetooth Configuration Wizard					
ES ST	Initial Bluetooth Configuration Wizard				
Before you can begin using Bluetooth on this computer you must perform some initial setup. This wizard will help you to configure a basic Bluetooth environment.					
	You can access the Bluetooth features on this computer through the Bluetooth icon on the desktop or in the system tray. This icon can also appear in the following locations. Select the locations you want the icon to appear and click Next.				
1 - 1	Add the icon to the Start menu				
the start	Add the icon to the Programs menu				
Mar Contraction	Add the icon to My Computer				
	< <u>B</u> ack <u>N</u> ext > Canc	;el			

(3) Follow the wizard's on-screen instructions to configuration your Bluetooth device.

🛃 General	<u>? ×</u>
Device Name and Type: You must select a name for this computer and indicate what type of computer it is.	5
Bluetooth Software 1.3.2.7	
Enter a unique name for this computer. This name will be displayed to other I AM Bluetooth devices if this computer is configured to allow itself to be discovere	d.
Select a computer type from the drop-down menu. This selection determines icon that represents this computer on remote devices.	the
Computer name: PRESARIO 1800T	
Computer type: Desktop	
< <u>B</u> ack <u>N</u> ext > 0	Cancel

(4) Click "Next" to configure the Bluetooth service, you may skip the process by clicking "Skip".

Sa Initial Bluetooth Configuration Wizard				
CENSE.	Initial Bluetooth Configuration Wizard			
	To configure the Bluetooth services that this computer will make available for other Bluetooth devices to use, click Next.			
	If you do not want to change the configuration for this computer's Bluetooth services or if you prefer to change the configuration later, click Skip.			
	<u> </u>			
	< <u>B</u> ack <u>Next</u> > Cano	el		

(5) Click "Next" to the next page.

翳 Bluet	ooth S	Service Selection
Choo T T	o enab o enab	e services that this computer will offer: le a service, place a check in the box next to the service name. ay the properties panel for a service, click Configure.
	▼ 🕵	PIM Item Transfer Image: State S
F	√ 🗗	PIM Synchronization
P	र 📄	File Transfer
P	v 🤔	Network Access
P	र 🤌	Dial-up Networking
F	7 🍠	Bluetooth Serial Port
		< <u>B</u> ack <u>N</u> ext > Cancel

The services supported by Bluetooth are:

- Bluetooth Serial Port-a wireless connection between two devices. This connection can be used by applications as though a physical serial cable connected the devices.
- **Dial-up Networking-**allows a device to use a modem that is physically attached to another Bluetooth device.
- **Fax**-allows a device to send a fax using a remote Bluetooth cell phone, modem, or computer.
- **File Transfer-**allows a device to perform file system operations on another Bluetooth device; browse, open, copy, etc.
- **Headset-**allows a Bluetooth headset to be used as the audio input/output mechanism for another Bluetooth device, such as a computer or cell phone.
- **PIM Item Transfer-**allows two Bluetooth devices to exchange Personal Information Manager data such as business cards, calendar items, email messages, and notes.
- **PIM Synchronization-**allows two Bluetooth devices to synchronize Personal Information Manager data.
- **Network Access-**allows a device to access a Local Area Network via a second Bluetooth device that is physically connected to the network or allows

a remote device to become part of an ad hoc network provided by the Bluetooth server.

• Audio Gateway-allows the microphone/speakers on Bluetooth device (typically a computer) to be used as the audio input/output mechanism for a remote Bluetooth device, such as a cell phone.

All Bluetooth servers do not necessarily provide all of these services. For example, network gateways may provide only the Network Access service.



FIND A SERVICE

The process of determining the services that a device provides is called Service Discovery.

You can follow the wizard's on-screen instructions to find a service to use or click **"Skip"** button to skip this step.

To initiate a Service Discovery, in the Folders pane of My Bluetooth Places, right-click a device name and select Discover Available Services from the shortcut menu. Bluetooth services are those things that this computer can do for remote Bluetooth devices. For example, if this computer allows a remote Bluetooth device to send a fax using a fax modem that is physically attached to this computer, then this computer is providing the Bluetooth fax service. Some services are hardware dependant; this computer cannot provide the fax service unless it has a physical fax modem, for example. Some Bluetooth services use virtual hardware. The Bluetooth Serial Port service, for example, does not use a physical port on this computer. Instead,

it creates virtual serial ports that Windows applications can see and use as if they were actual physical ports. Each Bluetooth service that this computer is capable of providing can be started automatically when Bluetooth starts. Each service can be setup to require security measures before allowing a remote Bluetooth device to connect. Bluetooth services require a Bluetooth application on the remote device; services and applications usually have coinciding names; i.e., there is a Bluetooth Fax Service and a Bluetooth Fax Application.

To check if you Bluetooth device is up and working properly

	Explore My Bluetooth Places		
_	Bluetooth Setup Wizard		
	Advanced Configuration		
	Quick Connect 🔹 🕨		
	Stop the Bluetooth Device		
	5) 📢	6:42 PM

From the Bluetooth menu, select "Advanced Configuration".

Bluetooth Configuration					? >
General Accessibility D	iscovery L	.ocal Services	Client Appl	ications	Hardware
Devices:		·			
Name				Туре	
😪 😪 CSR USB Bluetooth	Device			USB	
J					
Device Properties					
Device Status:	The select	ted device is wo	orking prope	erly.	
Manufacturer:	Cambridge	e Silicon Radio			
Firmware Revision:	Version 52	25			
Device Address: HCI Version: HCI Revision: LMP Version: LMP Sub Version:	00:10:60:/ Bluetooth 020D Bluetooth 020D	44:00:85 HCI 1.1 LMP 1.1			
	OK	Cancel		pply	Help

Under the **"Hardware"** tab, verify the Bluetooth address is present along with the driver and firmware version info.

If such information is not present, please unplug then plug in the USB adapter to initiate the driver.

For CF Bluetooth card, please reboot the system with the CF Bluetooth card securely inserted in the PCMCIA slot.

Repeat the installation steps for other USB adapters or CF card on other PCs.

Periodic Search for Devices

Bluetooth can be configured to automatically search for devices on a regular basis (Bluetooth Configuration Panel > Discovery tab). One of the advantages of Bluetooth is the mobility that the wireless connections allow. However, mobility means that devices may move in or out of connection range during the time between the automatic updates performed by Bluetooth. To be certain that the displayed list of devices in the neighborhood is current, or if automatic periodic inquiry is not enabled, force an update of the device list using the technique described in Search for Devices, above.

Bluetooth Configuration	<u>? ×</u>				
General Accessibility Discovery Local Services	Client Applications Hardware				
Select 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					
A	dd Device Delete				
OK Cance	Help				

1.1 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.

Basic Bluetooth Icon

Bluetooth Icon Indicates Bluetooth Status				
Enabled	Disabled	Connected		
Blue with White	Blue with Red	8 Blue with Green		

Device Icons for Windows 9x, Me and 2K

Device Icons for Windows 9x, Me and 2K				
Name	Normal	Connected	Paired	
Audio Gateway				
Desktop				
Headset				
Laptop	se a constante da la constante		W.	
Modem				
Network Access Point		⊒ ∟ ⊥	r 🐨	
Personal Digital Assistant				
Printer				
Telephone				
Unknown	?	3	?	

Service Icons for Windows 9x, Me and 2K

Service Icons for Windows 9x, Me and 2K				
Name	Normal	Connected	Not Available*	
Audio Gateway		++		
Dial-up Networking	L _@			
Fax	Ĩ			
Headset				
Network Access	j. Lý			
PIM Item Transfer			X	
PIM Synchronization	ran. Le		, <mark>0</mark>	
Public Folder				
Serial Port	Ţ	7) V	
*Services may be unavailable b	ecause they are in use or	because the necessary har	dware is not installed.	

Device Icons for Windows XP

Device Icons for Windows XP				
Name	Normal	Connected	Paired	
Audio Gateway			Š	
Desktop			M	
Headset				
Laptop		++>		
Modem	\sim			
Network Access Point			t and a second s	
Personal Digital Assistant		++		
Printer) S			
Telephone	9		4	
Unknown Device	8			

Service	Icons	for	Windows XP	
0011100	100110			

Service Icons for Windows XP				
Name	Normal	Connected	Not Available*	
Audio Gateway				
Dial-up Networking		→+		
Fax				
Headset				
Network Access				
PIM Item Transfer				
PIM Synchronization	2			
Public Folder	1			
Serial Port				
*Services may be unavailab	ble because they are in u	se or because the necessary	hardware is not installed.	

NOTE: Only available services are displayed in the menus.

2. Network sharing setting for Windows

The Network Access service permits a Bluetooth enabled PC (client) to access the Internet via another Bluetooth enabled PC (Server) that already has Ethernet connection.

Windows network sharing setting

PC to PC (Windows 2000 or Windows XP)

1. To enable Internet Connection Sharing on the server PC

2. Click on **Start menu-->Settings -->Network and Dial-up Connections** and find your Local Area Connection (LAN) that is connected to the Internet.

3. Right click the active LAN connection to open the **"Properties"** dialog box.

Connect using:		
📑 Intel 21143-B	ased PCI Fast Ethernet A	dapter (Generic)
This c <u>o</u> nnection use	es the following items:	<u>C</u> onfigure
 ✓ ■ File and Pr ✓ ■ QoS Pack ✓ ■ Microsoft II 	inter Sharing for Microsoft et Scheduler Pv6 Developer Edition	Networks
Install	<u>U</u> ninstall	P <u>r</u> operties
Allows your comp network.	outer to access resources	on a Microsoft
Show icon in pol	tification area when conn	ected

4. Click on **"Advanced"** tab and select the **"Internet Connection Sharing"**, checkbox to enable Internet sharing.

🕹 Local Area Connection 4 Properties 🛛 🔹 🛛 🔀
General Authentication Advanced
Internet Connection Firewall Protect my computer and network by limiting or preventing access to this computer from the Internet
Learn more about Internet Connection Firewall.
Internet Connection Sharing
computer's Internet connection
Allow other network users to control or disable the shared Internet connection
Learn more about Internet Connection Sharing.
If you're not sure how to set these properties, use the <u>Network Setup Wizard</u> instead.
OK Cancel

5. Click on **"Settings...**" button and select the services you wish to provide other Bluetooth devices. Click **"OK**" to save the changes.

Advanced Settings 🛛 🔹 💽
Services Select the services running on your network that Internet users can access. Services I FTP Server Internet Mail Access Protocol Version 3 (IMAP3) Internet Mail Access Protocol Version 4 (IMAP4) Internet Mail Server (SMTP) Post-Office Protocol Version 3 (POP3) Remote Desktop Secure Web Server (HTTPS) Telnet Server Web Server (HTTP)
Add Edit Delete
OK Cancel

6. Go back to the "Network and Dial-up Connections" window, right click the "Bluetooth LAN Access Server Driver" and select "Properties".

7. Under "General" tab, click on "Internet Protocol (TCP/IP)" and "Properties".

ieneral	Authenticati	on Advanced	
Connec	t using:		
B B	luetooth LAN	Access Server Driver	
This c <u>o</u> r	nection uses	s the following items:	<u>C</u> onfigure
	QoS Packel	t Scheduler	~
✓ 3 ⁻	[•] Microsoft IP	v6 Developer Edition	
	Internet Pro	tocol (TCP/IP)	~
<			
	jstall	<u>U</u> ninstall	
Trans	ption mission Cont area network is diverse inte	rol Protocol/Internet Pr . protocol that provides erconnected networks.	otocol. The default communication
wide acros			y

8. Under **"General"** tab, assign a virtual IP as shown in the picture below. Then click **"OK"** to save the changes.

ou can get IP settings assigned his capability. Otherwise, you ne he appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
O Obtain an IP address autom	atically
Solution ● Solutio	<u>s</u>]
<u>I</u> P address:	192.168.0.1
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	12 12 E
Obtain DNS server address	automatically
⊙ Use the following DNS serv	er addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	

9. This allows the server PC to act as a DHCP server towards the client PCs. NOTE: For Win98SE and WinMe, please download and install WinRoute on the Server PC to allow DHCP service.

10. On the client PC, launch the Bluetooth software stack by clicking the **"My Bluetooth Places"** icon located on the desktop.

11. Double click the **"Entire Bluetooth Neighborhood"** icon to search for other Bluetooth devices nearby.



12. After searching is completed, locate the computer name of the server PC and double click it to discover the Bluetooth services it has to offer. (i.e. Bluetooth Serial Port, Dial-up Networking, File Transfer, Network Access, etc.).



13. Click on the "Network Access" icon to connect to the shared Internet connection on the server PC.

Connecti	ng	? X
	Status:	
<mark>ש</mark> א נ <u>י</u> ש	Connecting Network Access on GATEWAY5300	

14. Click OK without entering any username or password. If one is already present, click OK anyway and it will still connect.

Connect Blueto	othNullConnection		?×
		P	Z
<u>U</u> ser name:			
<u>P</u> assword:			
	Save Password		
<u>C</u> onnect	Cancel Pr	operties <u>H</u>	elp

15. Now you can access the Internet via Bluetooth.

Note: If your PC accesses the Internet via a proxy server, remember to configure the proxy setting of you browser program in the client PC. Consult your MIS personnel if you're not sure what to set.

 To set up proxy, right click "Internet Explorer", select "Properties", select "Connections" tab. Select "BluetoothNull Connection" and click on "Settings...".

Internet Properties	? 🛛
General Security Privacy Content Connections	Programs Advanced
To set up an Internet connection, click Setup.	Set <u>up</u>
Dial-up and Virtual Private Network settings	
BluetoothNull Connection (Default)	Add
	<u>R</u> emove
Choose Settings if you need to configure a proxy server for a connection.	Settings
O Never dial a <u>c</u> onnection	
O Dial <u>w</u> henever a network connection is not prese	ent
Always dial my default connection	
Current BluetoothNull Connection	S <u>e</u> t Default
Local Area Network (LAN) settings	
LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings.	LAN Settings
OK Car	ncel Apply

2. Select the **"Proxy server"** checkbox and enter the proxy address of you company and Port number.

BluetoothNull	Connection S	ettings		? 🛛
Automatic conf Automatic conf use of manual Automatica Use automatica Address	iguration figuration may over settings, disable a lly detect settings atic configuration	erride manu automatic c ; <u>s</u> cript	ual setting configurat	gs, To ensure the
Proxy server	y server for this c her connections).	onnection ((These se	ttings will not
Addr <u>e</u> ss:	proxy server for	local addre	sses	Advanced
Dial-up setting:	5			
User name:				Properties
Password:				Advanced
Domain:				
			ок	Cancel

3. File transfer setting for Windows

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

File transfer setting for Windows

PC to PC

1. After successful USB adapter setup on two PCs, launch the Bluetooth software stack on both PCs by clicking the **"My Bluetooth Places"** icon located on the desktop.

2. On one PC only, double click on **"Entire Bluetooth Neighborhood"** icon to search for other Bluetooth devices nearby.

X My Bluetooth Places		<u>_ 0 ×</u>
Eile Edit View Bluetool	th F <u>a</u> vorites <u>T</u> ools	; <u>H</u> elp
] ← Back → → • 🖭 🛛 🔕	Search 🕒 Folders	🕉 History 🛛 🖁 🗎 🎽
Address 😣 My Bluetooth Plac	ies	▼ @60
	My Device Entir Bluetoo	e Add Bluetooth th Connection
The search for devices has finishe	ed	11.

3. After searching is completed, locate the name of PC that you wish to transfer the file to and double click it to discover the Bluetooth services it has to offer (i.e. Bluetooth Serial Port, Dial-up Networking, File Transfer, Network Access, etc.).



4. Double click the **"Public Folder**" icon to open the Bluetooth shared folder on the other PC.

5. Locate the file you wish to transfer to that PC and drag it into the **"Public Folder"** window.

6. At this time, a window will pop up to indicate that a file transfer connection is being established, and then file transfer will begin.

Copying	
BTplace.bmp From 'H:\' to 'Public Folder\'	
Copied 173,892 bytes of 286,422 bytes.	 Cancel

7. The file will be opened once the transfer is completed, if the **"Start Automatically"** checkbox is selected.



Bluetooth Pro	operties		×
General			
My Share	File Transfer	Startup Autom	atically Browse
		7	
		Uancel	Apply

4. Dial-up networking setting for Windows

The Dial-up Networking service permits a Bluetooth client to use a modem that is physically connected to a different Bluetooth device (the server). After the Bluetooth wireless connection is established the client can use the server's modem as if it were a local device on the client.

To establish a Dial-up Networking session.

Dial-up networking setting for Windows

Connections are initiated from the client:

1. On the client, in the Folders pane of "My Bluetooth Places", select "Entire Bluetooth Neighborhood".

 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 the server that will provide the Dial-up Networking Service 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".



4. In the right pane of "My Bluetooth Places", double-click "Dial-up Networking".

😂 My Bluetooth Places\Entire Bl	uetooth Ne	ighborhood\13	19		
<u>File E</u> dit <u>Vi</u> ew <u>B</u> luetooth F <u>a</u> vori	tes <u>T</u> ools	<u>H</u> elp			
🚱 Back 👻 🕥 - 💋 🔊 S	earch 😥	Folders	Ŧ		
Address 🔞 My Bluetooth Places\Entire B	luetooth Neig	hborhood\ T39			🔽 🋃 Go
Folders X				20	\sim
🎯 Desktop 🛛 🔥	000				V\$P
🖅 🖨 My Documents	Dial-up	Fax	Inbox	IrMC	Serial Port 1
🕀 🧕 Hy Computer	Networking			Synchroniza	
	ènn				
Recycle Bin	Var Indexe				
🖃 🛂 My Bluetooth Places	Serial Port 2				
😑 🕺 Entire Bluetooth Neighbor					
🖅 🗌 T39					
🗃 🧟 NEC Adapter					
<					

5. In the Connect To dialog box, type in your user name, password, and the phone number to be dialed, and then click the "Dial" button.

6. Select the "Save password" checkbox and the dialog box will not appear for subsequent connections to the same phone number. You can now open a web browser and connect to the Internet.

Note: When using the GPRS Dial up function, you do not have to type in the user name or password.

Connect BluetoothConnection	? 🗙
	M
User name: illio1	
Password:	
Anyone who uses this computer	ers:
Dial Cancel Properties <u>H</u>	elp
Network Connections Image: Wake the phone number change permanent? Image: Yes	
Connecting BluetoothConnection	
Dialing 034121234	

To close a Dial-up Networking connection

 On the client, in the Folders pane of "My Bluetooth Places", select (highlight) the device that is providing the Dial-up Networking service.
 In the right pane of "My Bluetooth Places", right-click "Dial-up Networking" and then select "Disconnect Dial-up Networking" from the pop-up menu.

5. FAX setting

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

FAX setting for Windows

To send a Fax

Connections are initiated from the client:

1. On the client, in the Folders pane of "My Bluetooth Places", select "Entire Bluetooth Neighborhood".

 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 the server that will provide the Fax service 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".

4. In the right pane of "**My Bluetooth Places**", double-click Fax. 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 completed.

6. PIM Item Transfer setting

Overview

The Bluetooth PIM Item Transfer application allows this computer to send and receive Personal Information Manager items to-and-from a remote Bluetooth device. Item transfer can be accomplished several ways:

To send, receive or exchange business cards:

1. From Windows Explorer, My Bluetooth Places, right-click the PIM Item Transfer service on a remote device and select the appropriate option. or

In the Windows system tray, right-click the Bluetooth icon, select Quick Connect Business Card Exchange, select a device from the list, select the appropriate option from the shortcut menu, and then click OK.

2. From Windows Explorer, My Bluetooth Places, highlight the PIM Item Transfer service on a remote device, and then, from the Bluetooth menu on the Windows menu bar, select the appropriate action.

In addition to the business card options listed above, you can also send Notes (*.vnt), Email (*.vmg) and Calendar (*.vcs) items from this menu.