3.0



# **USB** Adapter

Manual and

**Application note** 

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Bluetooth<sup>™</sup>

## Introduction

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

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

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

#### FCC RF Radiation Exposure Statement

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

# Chapter1

#### Package

- One Bluetooth adapter
- One driver and software disk
- This user manual

#### **Features**

- Bluetooth v1.2 compliant
- USB Bluetooth adapter support full speed USB v1.1 Interface.
- Wireless communication within a radius of 32 Feet (10 Meters) for Class 2 Bluetooth devices.
- Wireless communication within a radius of 328 Feet (100 Meters) for Class 1 Bluetooth devices.
- Connect up to 7 different Bluetooth enabled devices
- Encryption and authentication to ensure safe, secure communications
- Low power consumption

#### **Bluetooth profile support**

Generic Access Profile (GAP)

Serial Port Profile (SPP)

Service Discovery Application Profile (SDAP)

Generic Object Exchange Profile (GOEP)

Object Push Profile (OPP)

File Transfer Profile (FTP)

Dial-up Network Profile (DUN)

LAN Access Profile (LAP)

Fax Profile (FAX)

Synchronization Profile

Headset Profile

Personal Area Network (PAN)

Human Interface Device (HID)

BIP Basic Image Profile (BBIP)

**Drivers support** 

Windows 98SE, ME, 2000, XP

2

# Chapter 2

#### Setup for Windows 98SE/ME/2000/XP

#### Installing Bluetooth software for Windows

(1) Place installation CD into PC and the setup menu should launch automatically.

If the setup menu does not launch automatically, use Windows Explorer to navigate to the appropriate CD-ROM drive and run **"bsetup"**.

#### (2) Select "Install Drivers and Application Software".



(3) Please select your device from the menu.



- (4) Complete the following steps to install Bluetooth software:
- (a) Exit all applications.
- (b) InstallShield Wizard setup dialog box will automatically be displayed.
- (c) Follow the instructions on screen:
- (d) On the *Welcome* screen, click the "Next" button.

🛃 Bluetooth Software 3.0.1.912 - InstallShield Wizard				
CARS.	Welcome to the InstallShield Wizard for Bluetooth Software 3.0.1.912			
SAT)	The InstallShield(R) Wizard will install Bluetooth Software on your computer. To continue, click Next.			
	WARNING: This program is protected by copyright law and international treaties.			
	< Back Next > Cancel			

(e) 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 3.0.1.912 - InstallShield Wizard
License Agreement Please read the following license agreement carefully.
BLUETOOTH ("BLUETOOTH") IS WILLING TO LICENSE THE BLUETOOTH 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
<ul> <li>I accept the terms in the license agreement</li> <li>○ I do not accept the terms in the license agreement</li> </ul>
InstallShield

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

🔂 Bluetoot	th Software 3.0.1.912 - InstallShield Wizard	
<b>Destinati</b> Click Nex	on Folder kt to install to this folder, or click Change to install to a different folder.	111
	Install Bluetooth Software 3.0.1.912 to: C:\Program Files\Bluetooth\Bluetooth Software\ <u>Change</u>	
InstallShield –	< <u>B</u> ack Next > Cancel	

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

🔀 Bluetooth Software 3.0.1.912 - InstallShield Wizard	<b>X</b>
<b>Ready to Install the Program</b> 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, cli exit the wizard.	ick Back. Click Cancel to
InstallShield	all Cancel

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

Driver Signature Notice
Currently Microsoft does not have a certification program in place for Bluetooth devices. As a result, at this time it is not possible to provide certified drivers for Bluetooth devices. In the event that Microsoft implements a Windows Logo certification process for Bluetooth devices, signed drivers will be made available.
To avoid receiving several prompts for signed drivers during the installation process, select OK to disable unsigned driver warnings, and proceed with the installation. The default warning option will be re-enabled at the completion of the installation of the Bluetooth drivers. This option is an effort to provide the best customer experience while using this product. If you select Cancel, the installation will continue without disabling the warnings and you will be required to select Continue at each prompt to proceed with the installation.
OK Cancel

(i) During the installation, system will try to detect your Bluetooth device, please plug in your Bluetooth device when the following message is displayed. Then click **"OK**" to continue, or you can click **"Cancel**" to continue the installation without the Bluetooth device.

Bluetoo	th 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

(j) When the installation is completed, please click the "Finish" button.

🛃 Bluetooth Software - InstallShield Wizard 🛛 🔀				
CELES.	InstallShield Wizard Completed			
	The InstallShield Wizard has successfully installed Bluetooth Software. Click Finish to exit the wizard.			
	< <u>B</u> ack <u>Finish</u> Cancel			

For more information of Bluetooth software Configuration & User's Guide, please refer to Chapter 3 of this application note.

# 3

# Chapter 3

## Application note for Windows 98SE/ME/2000/XP

### 3.1 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 Connecte			
*		8	
Blue with White	Blue with Red	Blue with Green	

Device Icons for Windows 98SE, Me and 2K

Device Icons for Windows 9x, Me and 2K				
Name	Normal	Connected	Paired	
Audio Gateway		-		
Desktop				
Headset				
aptop	e e e e e e e e e e e e e e e e e e e		2	
Modem				
Network Access Point			🚰1   L#	
Personal Digital Assistant				
Printer				
Felephone				
Unknown	•	8		

Service Icons for Windows 98SE, Me and 2K

Name	Normal	dows 9x, Me and 2K Connected	Not Available*
Audio Gateway	Horman	Gonnected	Hot Available
Auto Galeway	20		
Dial-up Networking	2	-	-
Fax	C)	<i>,</i>	<b>1</b>
Headset			
Network Access	- <b>1</b>	-	
PIM Item Transfer	- C		
PIM Synchronization			
Public Folder			
Serial Port	7	7	1

#### Device Icons for Windows XP

Device Icons for Windows XP				
Name	Normal	Connected	Paired	
Audio Gateway	5		ŝ.	
Desktop				
Headset				
Laptop				
Modem	<b>\$</b>			
Network Access Point	<b>N</b>		<b>1</b>	
Personal Digital Assistant				
Printer	Ś			
Telephone	1		4	
Unknown Device	8			

Service 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	- <b>1</b>			
PIM Synchronization	2			
Public Folder	1	1		
Serial Port	- V>			
Services may be unavailab	le because they are in	use or because the necessar	v hardware is not installed.	

**NOTE:** Only available services are displayed in the menus

### 3.2. 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 an 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 Network 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:	ased PCI Fast Ethernet .	Adapter (Generic)
	es the following items:	<u>Configure</u>
🗹 县 QoS Pack	rinter Sharing for Microso et Scheduler Pv6 Developer Edition	
I <u>n</u> stall	<u>U</u> ninstall	Properties
Description Allows your comp network.	outer to access resource	s on a Microsoft
<u> </u>	tification area when con	

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

🕹 Local Area Co	onnection 4 Pro	perties	? 🛛
General Authent	ication Advanced		
	ction Firewall computer and netwo his computer from th	· · · · · · · · · · · · · · · · · · ·	preventing
Learn more ab	out Internet Connec	tion Firewall.	
Internet Conne	ction Sharing		
	network users to co Internet connection		
	network users to co met connection	ntrol or disable th	ne
Learn more ab	out <u>Internet Connec</u>	tion Sharing.	
	how to set these pro u <u>p Wizard</u> instead.		Settings
		ОК	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
✓ Internet Mail Access Protocol Version 3 (IMAP3)
<ul> <li>Internet Mail Access Protocol Version 4 (IMAP4)</li> <li>Internet Mail Server (SMTP)</li> </ul>
<ul> <li>Post-Office Protocol Version 3 (POP3)</li> <li>Remote Desktop</li> </ul>
<ul> <li>Secure Web Server (HTTPS)</li> <li>Telnet Server</li> </ul>
✓ Teinet Server ✓ Web Server (HTTP)
Add Edit Delete
OK Cancel

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

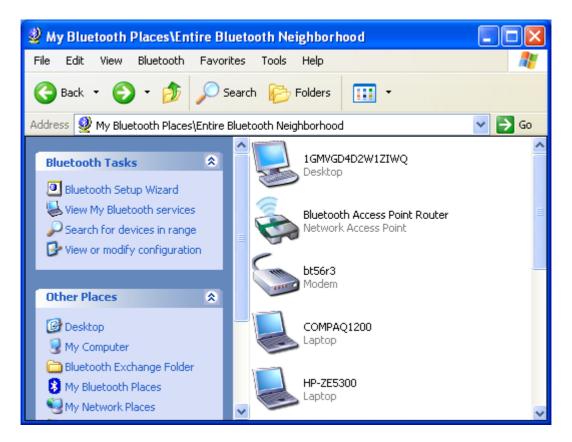
7. Under "General" tab, click on "Internet Protocol (TCP/IP)" and "Properties".

General Auther	itication	Advanced		
Connect using:				
👼 Bluetooth	LAN Acc	ess Server Driver		
This connection		-		10000
QoS P		eduler eveloper Edition		^
Interne				
		(Hernis)		~
<			) (	>
I <u>n</u> stall		<u>U</u> ninstall	Properties	5
Description				-
wide area ne	twork prot	rotocol/Internet Pr ocol that provides nected networks.	otocol. The defau communication	lt
Sho <u>w</u> icon ir	n notificatio	on area when con	nected	

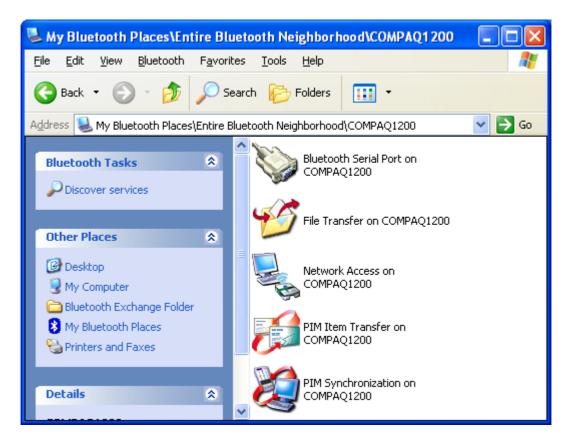
8. Under "**General**" tab, assign a virtual IP as shown in the picture below. Then click "**OK**" to save the changes.

Internet Protocol (TCP/IP) Pr	operties 🛛 🖓 🔀
General	
	automatically if your network supports d to ask your network administrator for
Obtain an IP address automa	atically
O Use the following IP address:	·
IP address:	192.168.0.1
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	
Obtain DNS server address a	automatically
OUse the following DNS serve	r addresses:
Preferred DNS server:	
Alternate DNS server:	
	Ad <u>v</u> anced
	OK Cancel

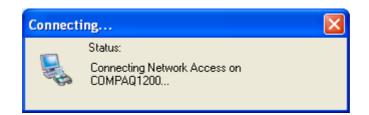
- This allows the server PC to act as a DHCP server towards the client PCs.
   NOTE: For Win98SE and WinMe, please download and install WinRoute (or similar program) on the Server PC to allow DHCP service.
- 10.On the client PC, launch the Bluetooth software stack by clicking the "**My Bluetooth Places**" icon located on the desktop.
- 11.Click the **"Search for devices in range"** 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, Desktop, Personal Digital Assistant, Network Access Point, etc.).



13.Click on the "Server PC " icon to connect to the shared Internet server PC.



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

Bluetooth	1 PIN Code Request
P	Device Name: COMPAQ1200
	Before a connection can be established, this computer and the device above must be "paired."
	The Bluetooth pairing procedure creates a secret key that is used in all future connections between these two devices to establish identity and encrypt the data that these devices exchange.
	To create the paired relationship, enter the PIN code and click OK.
	Bluetooth PIN Code:
	OK Cancel <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.

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

nternet Prope	rties			?
General Securi	ty Privacy Content	Connections	Programs	Advanced
To set Setup.	up an Internet connec	tion, click	Set <u>u</u>	ip
Dial-up and V	irtual Private Network s	ettings		
Bluetoo	thNull Connection (Def	ault)	Ado	i
			<u>R</u> em	ove
Choose Settir server for a c	ngs if you need to conf connection.	igure a proxy	<u>S</u> ettin	igs
🔿 Never dia	a <u>c</u> onnection			
O Dial <u>w</u> hen	ever a network connec	tion is not pres	ent	
💿 Always dia	al my default c <u>o</u> nnectio	n		
Current	BluetoothNull Cor	nnection	Set D	efault
Local Area N	etwork (LAN) settings-			
	do not apply to dial-up ngs above for dial-up s		LAN Se	ttings)
	ОК	Ca	ncel	Apply

2. Select the **"Proxy server"** checkbox and enter the proxy address of you company and Port number. Then click **"OK**" to save the changes.

uetoothNull	Connection Se	ttings		?
Automatic conf	iguration			
	figuration may ove settings, disable a			
Automatica	Illy detect settings			
Use automa	atic configuration s	cript		
Address				
Proxy server				
Use a pro <u>x</u> apply to oti	y server for this co her connections).	nnection (	(These se	ttings will not
Addr <u>e</u> ss:	172.18.0.7	Por <u>t</u> :	80	Advanced
Bypass	proxy server for l	ocal addre	sses	
Dial-up setting:	s			
<u>U</u> ser name:				Properties
<u>P</u> assword:				Advanced
<u>D</u> omain:				
		F	ОК	Cancel
			SAR.	

### **3.3. File transfer setting for Windows**

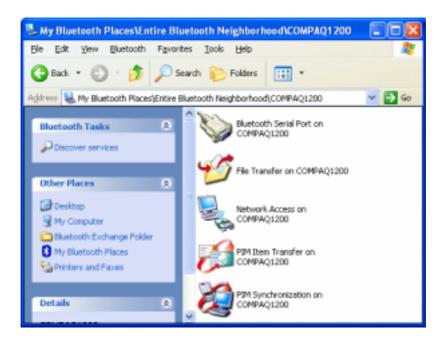
The File Transfer service allows one Bluetooth device to perform file operations on the default File Transfer directory (and the folders and files it contains) of another Bluetooth device.

# 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.

🖉 My Bluetooth Places\Entire Bl	uetooth Neighborh	bood	
File Edit View Bluetooth Favor	ites Tools Help		
Ġ Back • 🌍 • 🏂 🔎 S	earch 🌔 Folders	•	
Address 🔮 My Bluetooth Places'(Entire	Bluetooth Neighborhood	1	💙 🄁 Go
Bluetooth Tasks Bluetooth Setup Wizard View My Bluetooth services Search for devices in range View or modify configuration	Biuetool Netseori	HD2W1ZIWQ h Access Point Router LAccess Point	~
Other Places R Desktop	Modem COMPA Laptop	Q1200	

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 want 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	
untitled1.bmp From 'D:\' to 'File Transfer\'	
Copied 147,357 bytes of 589,878 bytes.	Cancel

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

Bluetooth Properties
General Notifications
File Transfer
🗹 Startup Automatically 🛛 🔽 Secure Connection
Bluetooth exchange folder location
C:\Documents and Settings\shoi.sl Browse
Remote users may modify Read Only files and folders.
Remote users may access Hidden files or folders.
OK Cancel Apply

#### 3.4. Dial-up networking setting for Windows

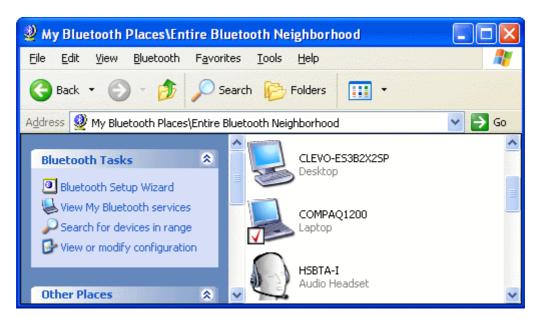
The Dial-up Networking service permits a Bluetooth client to use a modem that is physically connected to a different Bluetooth device (the server). After the Bluetooth wireless connection is established the client can use the server's modem as if it were a local device on the client.

To establish a Dial-up Networking session:

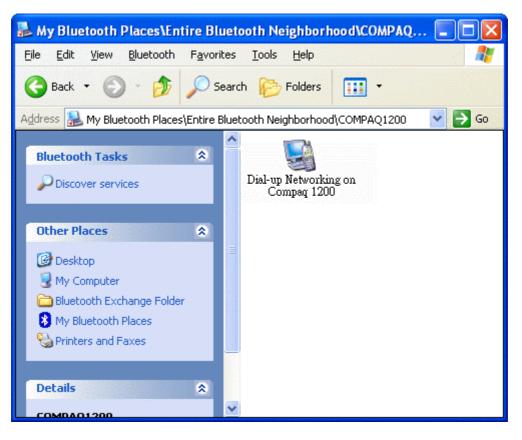
Dial-up networking setting for Windows

Connections are initiated from the client:

- 1. On the client, in the Folders pane of "My Bluetooth Places", select "Entire Bluetooth Neighborhood".
- 2. In the right pane of "Entire Bluetooth Neighborhood", right-click anywhere *except on a device name* and select "Refresh" from the pop-up menu.
- 3. In the Folders pane of "**My Bluetooth Places**", right-click the 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".



- 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 🛛 ? 🔀
User name: illio1
Password:
<ul> <li>Save this user name and password for the following users:</li> <li>         O Anyone who uses this computer     </li> </ul>
Dial: 034121234
<u>D</u> ial Cancel Pr <u>o</u> perties <u>H</u> elp
Network Connections
Make the phone number change permanent?         Yes
Connecting BluetoothConnection

Connec	ting BluetoothConnection
3	Dialing 034121234
	Cancel

To close a Dial-up Networking connection

- 1. 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.

#### 3.5. 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".
- 2. In the right pane of **"Entire Bluetooth Neighborhood"**, right-click anywhere except on a device name and select Refresh from the pop-up menu.
- 3. In the Folders pane of "My Bluetooth Places", right-click the 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.

### 3.6. 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.

3. From within a supported Personal Information Manager, select one or more items and then, from the PIM's File menu, select Send to Bluetooth.

Whether sent items are accepted by the remote device is determined by how the remote device's PIM Item Transfer service is configured.

#### **Close a PIM Item Transfer Connection**

This application closes the open connection automatically when its task is complete.

#### Configure PIM Item Transfer

The Bluetooth Configuration Panel > Client Applications > PIM Item Transfer > General tab provides options to configure:

- Click the application name to change it, highlight the existing name and enter the new name.
- Enable or disable secure connection. To enable secure connection, place a checkmark in the box.
- How your business card is handled when it is requested by a remote device. The Send My Business Card options are:

**Choose a business card as needed**-each time a remote device requests your business card you must select a card from your PIM. If you ignore the request the remote device will receive a timeout notice.

**Always send the same business card**-when this option is selected a dialog appears that allows you to set a default business card, which will be sent automatically when requests are received.

Where to store received business cards. The Received Business Cards options are:

Microsoft Outlook

Outlook Express

Lotus Notes

NOTE: The selected Received Business Cards option does not influence the settings on other PIM-related property pages.

For example, even if the PIM Item Transfer *service* business card option on this computer is configured to "Do Not Accept", the PIM Item Transfer *application* will still accept business cards that the application has specifically requested via its "Receive" or "Exchange" functions.

Email attachments. The only option is include or do not include attachments with email that is sent or received on this computer using this service.

#### 3.7. PIM Synchronization setting

#### Overview

The PIM Synchronization Application is used to synchronize the Personal Information Manager (PIM) database of this computer with the PIM database of a remote Bluetooth device.

The supported PIMs are:

- Microsoft Outlook
- Microsoft Outlook Express
- Lotus Notes

#### The supported data types are:

- Business cards
- Calendar items
- Email (with or without attachments)
- Notes

#### Configure PIM Synchronization

The Bluetooth Configuration Panel > Client Applications > PIM Synchronization > General tab provides options to configure:

- The application name- to change it, highlight the existing name and enter the new name.
- Enable or disable secure connection. To enable secure connection, place a checkmark in the box.
- The PIM items to be synchronized and the PIM on this computer with which those items should be synced.

**NOTE:** If synchronization is enabled for a specific item type, but is not enabled for that item type on the remote device, synchronization WILL NOT take place for that item.

The data item types which can be synchronized are:

- Business cards
- Calendar items
- Email (with or without attachments-see below)
- Notes

Possible synchronization options for each of these data item types include:

**Do Not Synchronize**-this item type will not be synchronized