

**B L U E T A K E**

# **BT100S CF Card**

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Bluetooth by your side

## **User Guide**

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**Please take notice of potential interference of high-sensitive life-support systems or apparatuses when using wireless product in hospitals or planes.**

## Contents

<b>Getting Start.....</b>	<b>4</b>
<b>Package Checklist.....</b>	<b>4</b>
<b>1. Installation.....</b>	<b>5</b>
1.1 System Requirements.....	5
Installation Notice.....	7
<b>2. Bluetooth Manager.....</b>	<b>9</b>
2.1 My Shortcuts screen.....	9
2.1.1 Status.....	10
2.2 Active Connections.....	10
2.3 Menus.....	11
2.4 Connection Wizard.....	12
2.4.1 Explore a Bluetooth device.....	13
2.4.2 Connect to the Internet.....	15
2.4.3 Partner with a cell phone.....	18
2.4.4 ActiveSync via Bluetooth.....	21
2.4.5 Browse files on a remote device.....	24
2.5 Paired devices.....	26
2.6 View.....	28
2.7 Business Card Exchange.....	29
2.8 Establish a Connection configuration on handheld device.....	30

<b>3. Bluetooth Control Panel.....</b>	<b>33</b>
3.1 General tab.....	34
3.2 Accessibility.....	37
3.3 File Transfer.....	39
3.4 Information Exchange.....	40
3.5 Serial Port.....	41
3.6 Dial-Up Networking.....	42
3.7 About.....	43

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For some PDAs that equip with early Pocket PC 2002 version, there may be a potential connection problem when you open the Internet Explorer but can't browse any content of website. The resolution to correct this problem is to update a file named *ppp.dll*. For more details about how to gain it, please refer to *p.7 Installation Notice* in this user guide.

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## Getting Start

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Thank you for purchasing this versatile Bluetooth™ wireless communication product manufactured by Bluetake Technology Co., Ltd. Before starting, please read this User Guide carefully to understand how to properly setup and use this product.

This user guide is composed of several major sections:

- *Installation*
- *Bluetooth Manager*
- *Bluetooth Control Panel*

## Package Checklist

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Please check all items included in product package with the list below. If there is any component damaged or missing, please contact your local distributor to get necessary support.

- BT100S CF Card x 1
- Bluetooth software CD x 1
- User Guide x 1
- Quick Setup Guide x 1
- Warranty Card x 1

# 1. Installation

## 1.1 System Requirements

### - Desktop/notebook:

- \* Microsoft Windows XP, 2000, ME, 98SE
- \* Microsoft ActiveSync version 3.1 or above
- \* CD-ROM drive

### - Handheld device:

- \* Microsoft Windows CE 3.0, Pocket PC 2000, Pocket PC 2002
- \* Supports Intel ARM/StrongARM CPU series
- \* Capable of accepting a CompactFlash card Type I

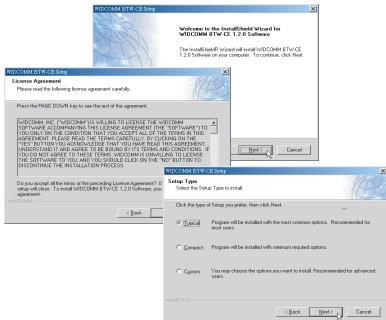
### 1.1.1 Hardware and Software Installation

#### 1. Insert the Bluetake BT100S CompactFlash card into handheld device.

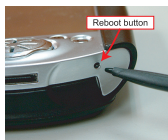
2. Put the handheld device into its candle that has been connected to a computer.

3. Microsoft ActiveSync will automatically detect the handheld device and then establish a connection between them.

4. Insert the driver CD into the CD-ROM drive.



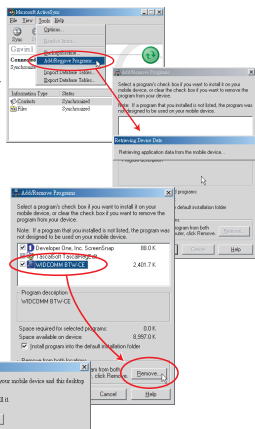
- When the welcome window appears, click *Next* button to continue.
- Click *Yes* button to accept the Licence Agreement and then follow the subsequent screens to install the software on the computer.
- Reboot both of computer and handheld device after the installation is finished.



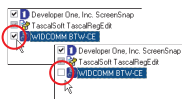
Example: Compaq iPAQ's reboot button.

### 1.1.2 Uninstall previous BTW software

- Connect the handheld device via its cradle
- Select *Tools* from the menu in the Microsoft ActiveSync program, and then click *Add/Remove Programs...* from the drop-down list.
- The Microsoft ActiveSync will retrieve all application data from the handheld device.
- Select *"WIDCOMM BTW-CE"* and make sure it is highlighted. Then click *Remove...* button (**DO NOT** click the *OK* button).
- Press *Yes* button when *Remove application* window appears.
- The previous version of BTW-CE will be uninstalled on both the handheld device and computer.



**Note:** No matter the check box in front of **WIDCOMM BTW-CE** is checked or unchecked, make sure the **WIDCOMM BTW-CE** is highlighted when you want to remove it from the list.



## Installation Notice

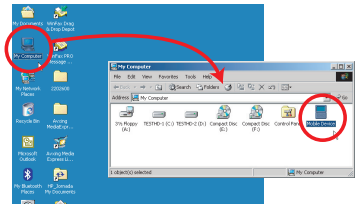
### Update ppp.dll for early Pocket PC 2002 version

For some PDAs that equip with early Pocket PC 2002 version, there may be a potential connection problem when you open the Internet Explorer but can't browse any content of website.

The resolution to correct this problem is to update your PDA with a Dynamic Link Library file named *ppp.dll*. You can inquire and get this file from your PDA manufacturer (Note: if you don't know where to get the file, you may also email to [bluetake@bluetake.com](mailto:bluetake@bluetake.com)).

Once you get the file, please follow the step-by-step instruction herein to update the file:

1. Double-clicking on *My Computer* icon in Windows Desktop.
2. Double-clicking on the *Mobile Device* icon from the *My Computer* window.

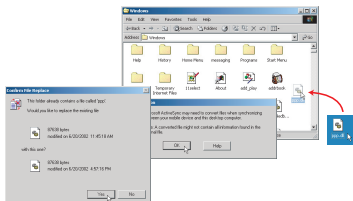


3. Double-clicking on the *My Pocket PC* icon from the *Mobile Device* window.
4. Find and open the *Windows* folder.





5. Move or copy the *ppp.dll* into Windows folder to replace the old one.



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**Note:** Before updating the ppp.dll file into your PDA, please make sure that the PDA is connected to computer and synchronized, otherwise you won't see any contents in the *Mobile Device* window.

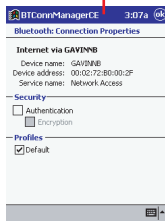
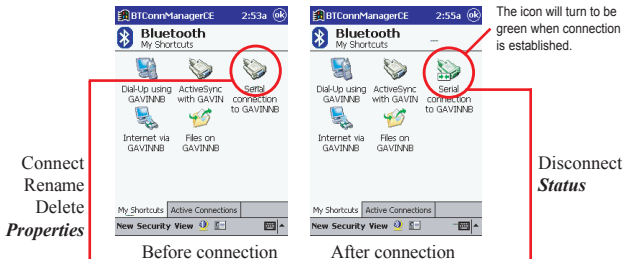
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## 2. Bluetooth Manager

The Bluetooth Manager includes 2 tabs, 3 menus and 2 icons:

### 2.1 My Shortcuts screen

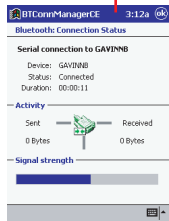
*My Shortcuts* is the default screen on the Bluetooth Manager. This screen displays the Bluetooth service shortcuts that have been created for connections to other devices. The particular shortcut icon will turn to be green when its connection is activating.



Connection Properties

Connection Properties (left screen): When tap and hold an icon of a disconnected device for seconds, a pop-up menu will appear and show Connect/Rename/Delete/Properties options.

Connection Status (right screen): When tap and hold an icon of a connected device for seconds, a pop-up menu will appear and show Disconnect/Status options.



Connection Status

### 2.1.1 Status

You can observe the status of BT100 CF Card from Today screen directly, for example:

- a. *The Bluetooth is enabled.*
- b. *The Bluetooth is disabled.*
- c. *The Bluetooth is connecting with other device.*



a.



b.



c.

### 2.2 Active Connections

Active Connections tab shows the currently active Outgoing and Incoming connections on the Pocket PC.

It is clear to read the signal strength by an indicator to the right of each active connection. The connection can be ceased by tapping and holding the icon of active connection, then select *Disconnect* from the pop-up menu. Additionally, you can see the current connection status by select *Status*.



**Please take notice of potential interference of high-sensitive life-support systems or apparatuses when using wireless product in hospitals or planes.**

## 2.3 Menus

In Bluetooth Manager there are five menus in the bottom of the screen:



Bluetooth Manager - menu

### 1. New

- Connect!: this item will open a *Connection Wizard* screen for creating Bluetooth service shortcuts that remote device offers.

### 2. Tools

- Paired devices: you can browse, add and delete paired devices from the screen.
- Business Card Exchange: you can send, receive and exchange business cards from the screen.

### 3. View

- Icons
- List

- ### 4. Search devices ( ):
- this item will open a *Connection Wizard* screen for creating Bluetooth service shortcuts that remote device offers.

- ### 5. Business cards ( ):
- this item will open a *Business Card Exchange* screen for sending, receiving and exchanging business card(s).

## 2.4 Connection Wizard

*Connection Wizard* screen provides a vivid interface to easily establish Bluetooth service shortcuts from diverse remote devices.

- **Explore a Bluetooth device:** this wizard will help to search a specific remote device and disclose all Bluetooth services that the remote device offers.

- **Connect to the Internet:** this wizard provides two methods for connecting to internet:

1. (*LAN Access*) Connect via a LAN access point or a computer permanently connected to a LAN.
2. (*Dial-Up*) Connect via a dial-up device such as a cellular phone or a shared modem connected to a computer.

- **Partner with a cell phone:** this wizard will establish a partnership with a cellular phone and show the Bluetooth services shortcuts it offers.

- **ActiveSync via Bluetooth:** this wizard allows Microsoft ActiveSync to synchronize varied informations between computer and PDA via Bluetooth,

- **Browse files on a remote device:** this wizard will build a shortcut to connect to a public folder that remote device offers. User can browse the file list, send and receive files from the public folder.



Connection Wizard

### 2.4.1 Explore a Bluetooth device

There are two ways to approach to the Connection Wizard:

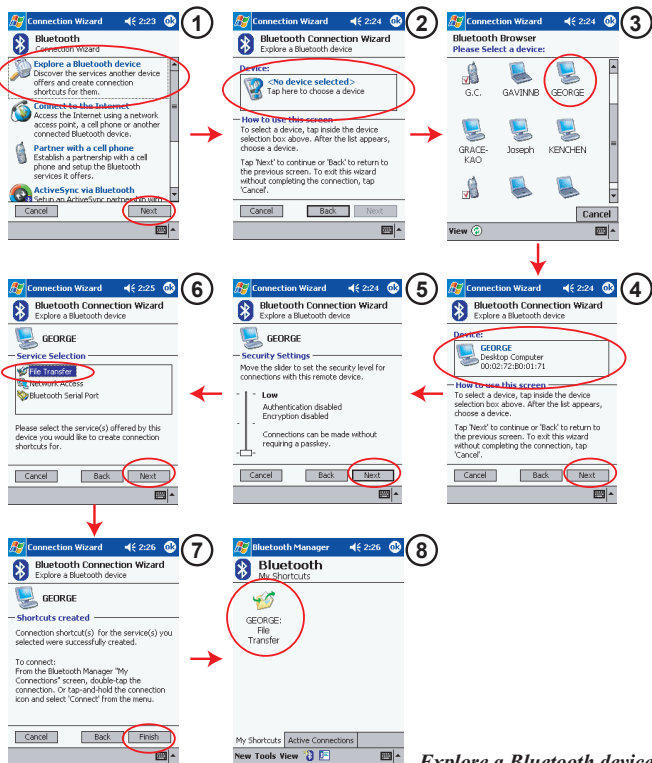
- Click on **Connect!** from the **New** menu.

- Click on  icon.



1. Tap the '**Explore a Bluetooth device**' from the *Connection Wizard* screen, and then click Next button.
2. Tap inside the device selection box.
3. Select a Bluetooth device from the *Bluetooth Browser* screen.
4. From the service selection, choose a Bluetooth service offers by this device you would like to create connection shortcut for from service selection, for example: File Transfer.
5. After selected a service from service selection, the connection shortcut will be created in the *My Shortcuts* screen.

(Please refer to the demonstration in the next page)



## 2.4.2 Connect to the Internet

**NOTE!!** Before connect to Internet by using any kinds of Bluetooth service, it's indispensable to establish the related settings indicates which connection mode that handheld device will use for connecting to internet. Please refer to the “2.8 Establish a Connection configuration on handheld device”

There are two ways to approach to the Connection Wizard:

- Click on **Connect!** from the **New** menu.

- Click on  icon.



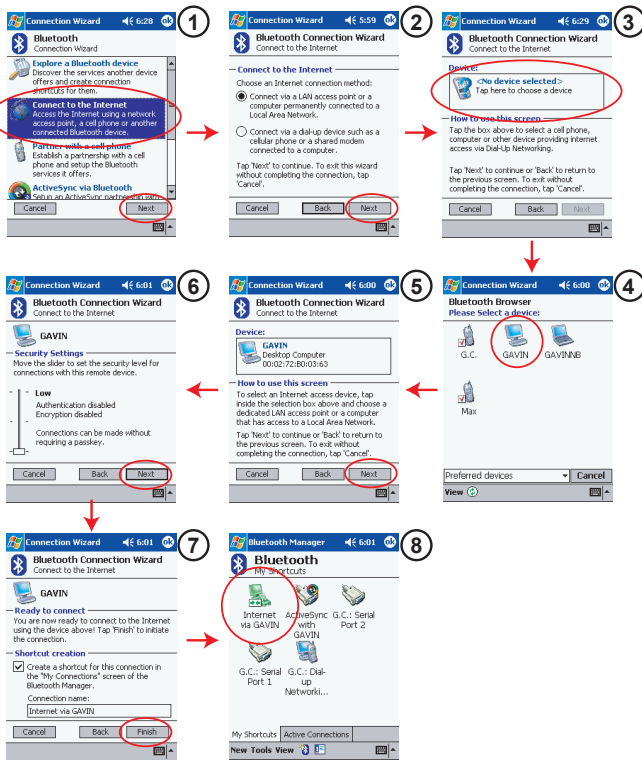
1. Tap the “**Connect to the Internet**” from the *Connection Wizard* screen, and then click Next button.
2. Two connection methods can reach Internet:
  - Connect via a LAN access point or a computer permanently connected to a LAN.
  - Connect via a dial-up device such as a cellular phone or a shared modem connected to a computer.

Select a method and tap Next button to continue.

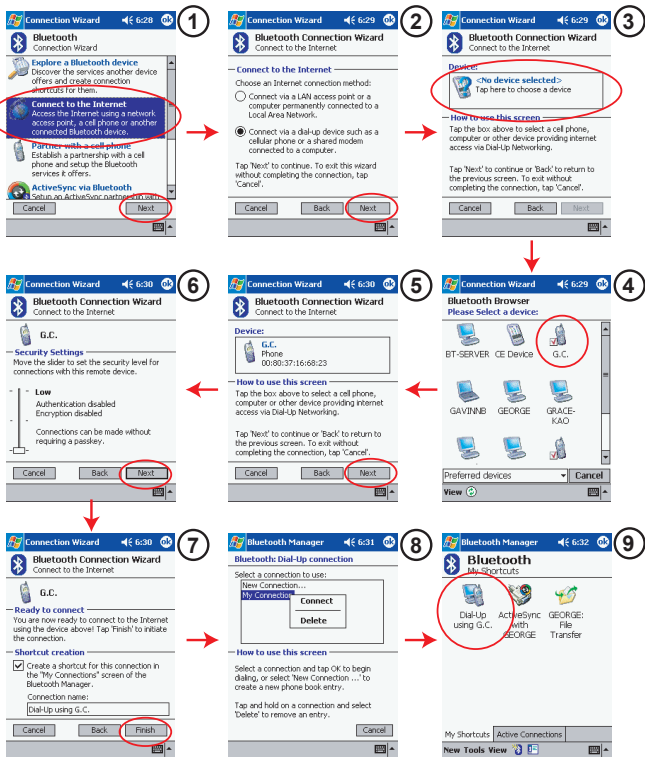
3. Tap inside the device selection box.
4. Select a Bluetooth device from the *Bluetooth Browser* screen.
5. Follow the screen instruction to continue.
6. The connection shortcut will be created in the *My Shortcuts* screen and **will automatically connect to remote device at the first time.**

(Please refer to the demonstration in the next two pages)





*Connect to the Internet via  
“LAN Access”*



*Connect to the Internet via  
“Dial-Up”*

### 2.4.3 Partner with a cell phone

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**NOTE!! Before connect to Internet by using any kinds of Bluetooth service, it's indispensable to establish the related settings indicates which connection mode that handheld device will use for connecting to internet. Please refer to the "2.8 Establish a Connection configuration on handheld device"**

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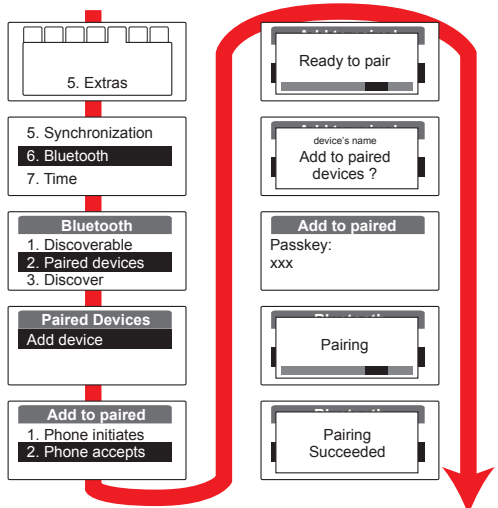
Before utilizing the services a Bluetooth mobile phone offers, for example: Ericsson T39, you have to enable Bluetooth on the phone and 'pair' the devices. In order to explore the services your phone has to offer, it needs to be 'Discoverable' and 'Pairable'. Please refer to your phones manual to find out how to enable these features.

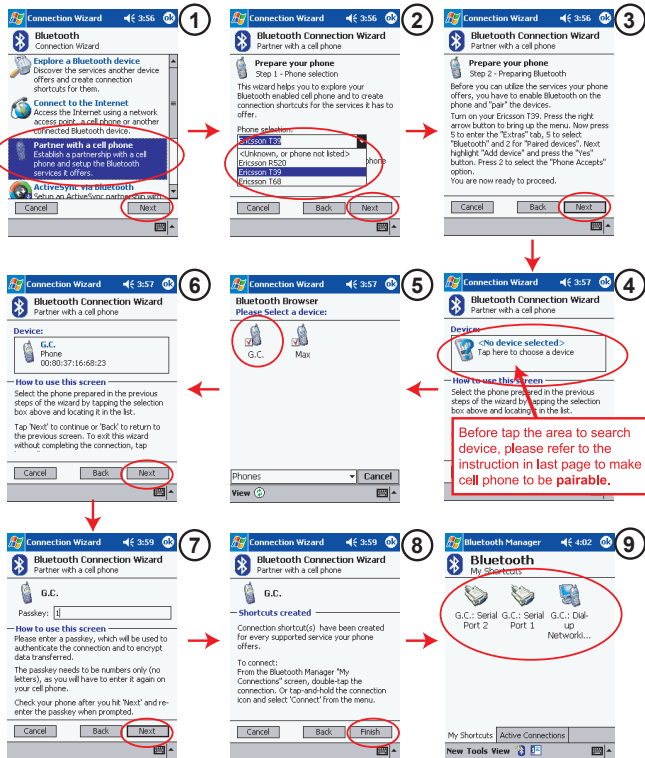
1. Tap the ***"Partner with a cell phone"*** from the *Connection Wizard* screen, and then click Next button.
2. Select a Bluetooth mobile phone you have from the Phone selection, for example: Ericsson T39.
3. Tap inside the device selection box to search devices.
4. Select a cell phone from the *Bluetooth Browser* screen.
5. Follow the screen instruction to continue.
6. Before enter a passkey, please make sure your cell phone is ready for being paired (Please refer to the next page for Ericsson T39 instruction). Then enter a passkey, which will be used to authenticate the connection and to encrypt data transferred. The passkey needs to be numbers only (no letters), as you will have to enter it again on your cell phone.
7. Once the pair process succeeded, the shortcuts of all services that cell phone offers will be created in the *My Shortcuts* screen.

(Please refer to the demonstration in the next two pages)

Ericsson T39 Bluetooth setting:

1. Select and enter [5. Extras] tab by using up/down arrow button on Ericsson T39 button panel.
2. Select and enter [Bluetooth] sub-menu by using up/down arrow button in the Extras tab.
3. Select [2. Paired devices] and press *Yes* button to continue.
4. Select [Add device] and [2. Phone accepts]
5. Now the T39 is ready to pair. (Now, you can enter a passkey in the PDA screen as the step 7 in next page)
6. Enter the same passkey that you entered in the PDA.
7. Paired succeeded and finished.



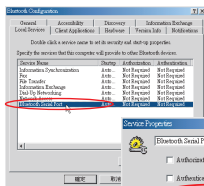


*Partner with a cell phone connection diagram*

## 2.4.4 ActiveSync via Bluetooth

Before using ActiveSync via Bluetooth, please make sure that your computer has to be able to access incoming Serial Port profile connections:

--- Computer setting ---



1. Right-click on *Bluetooth Configuration* icon in the toolbar, select *Setup* and then open *Configuration* window.

2. Select *Local Services* tab from the Bluetooth Configuration window.

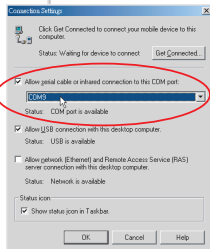
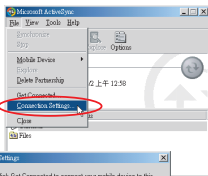
3. Double-click on *Bluetooth Serial Port* item from the Local Service tab.



4. In the *Service Properties* window, please learn by heart the current COM port this computer uses, for example: COM 9, in order to identify this value with the configuration of Microsoft ActiveSync later.

5. In the *Microsoft ActiveSync* window, select *Connection Settings...* from drop-down list of *File* menu.

6. Choose the same COM port(in this case, it's COM 9) that Bluetooth Serial port uses shown in the *Step 4*.



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**Note:** The proper Bluetooth serial port that shows in *Local Services* tab of your computer may not be identical to the example in last page.

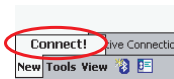
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--- PDA setting ---

There are two ways to approach to the Connection Wizard:

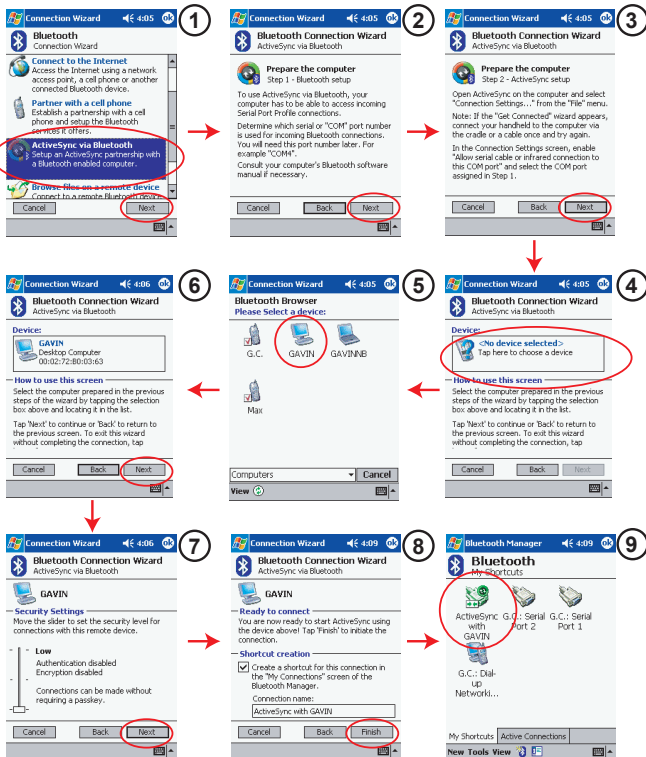
- Click on **Connect!** from the **New** menu.

- Click on  icon.



1. Tap the **“ActiveSync via Bluetooth”** from the *Connection Wizard* screen, and then click Next button.
2. Tap inside the device selection box.
3. Select a computer that can execute Microsoft ActiveSync from the *Bluetooth Browser* screen.
4. Follow the screen instruction to continue.
5. The ActiveSync connection shortcut will be created in the *My Shortcuts* screen and will automatically connect to the computer at the first time.

(Please refer to the demonstration in the next page)



*ActiveSync via Bluetooth connection diagram*

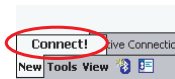


### 2.4.5 Browse files on a remote device

There are two ways to approach to the Connection Wizard:

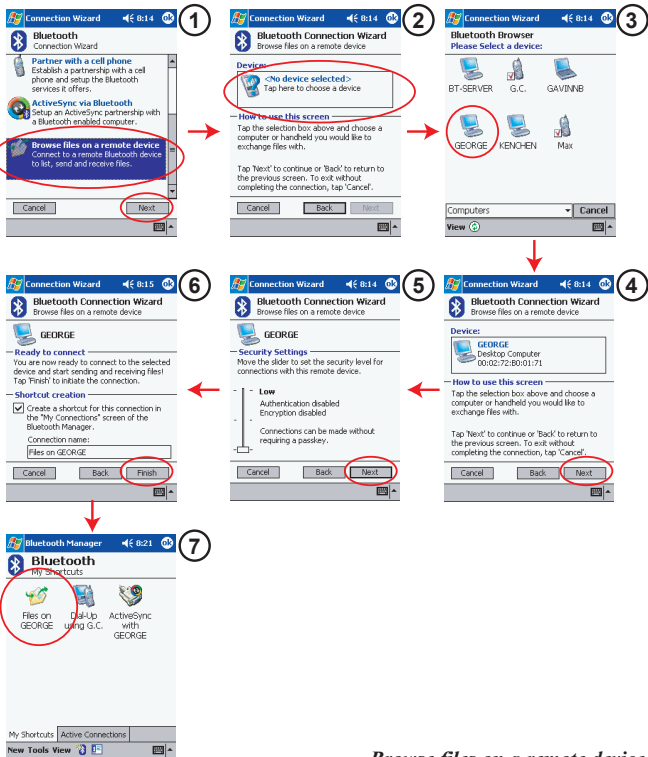
- Click on **Connect!** from the **New** menu.

- Click on  icon.



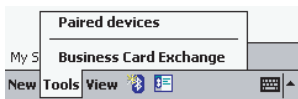
1. Tap the **“Browse files on a remote device”** from the *Connection Wizard* screen, and then click Next button.
2. Tap inside the device selection box.
3. Select a Bluetooth device from the *Bluetooth Browser* screen.
4. Follow the screen instruction to continue.
5. The connection shortcut will be created in the *My Shortcuts* screen and the File Transfer service will automatically show the files locate in the remote device at the first time.

(Please refer to the demonstration in the next page)



*Browse files on a remote device connection diagram*

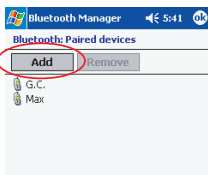
## 2.5 Paired devices



Bluetooth Manager - Security menus


In the Paired devices screen, When two devices have been paired they share, and exchange prior to each connection, a security key, named Link key, is based on a unique Bluetooth Device Address, a random number, and a user-defined password.

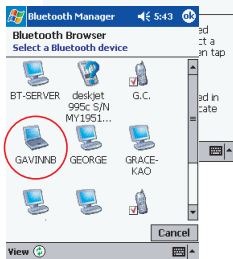
To pair with other device:



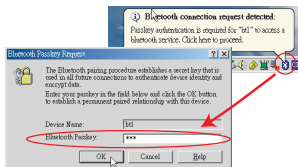
1. tap *Paired devices* from *Tools* menu.
2. tap **Add** button to add Bluetooth device.



3. tap  icon to search all remote devices in the vicinity.
4. select the device that you would like to pair with.



5. enter a passkey to add the remote device to the list of Paired devices.
6. enter the same passkey as Step 5 in your computer (for example: using BT007 USB Dongle or BT009 USB Adapter) when Bluetooth connection request window appears.



Bluetooth connection request window

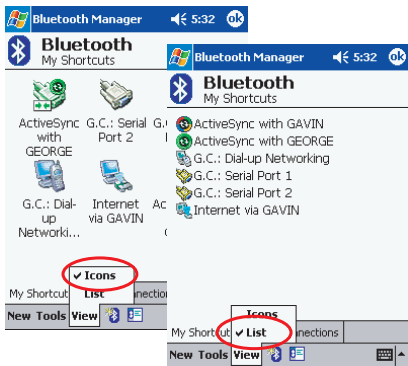
7. The paired device will show in the Paired devices list once the pairing process is finished.



To delete a device that has been paired:

1. select the device you want to delete from Paired devices list.
2. click *Delete* button to execute the deletion.

## 2.6 View

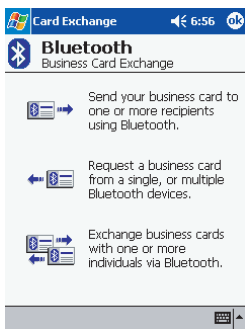


Bluetooth Manager - View menu

There are two options in the View menu:

- Icons: select this option to see devices' shortcuts as large icons.
- List: select this option to see devices' shortcuts in list format.


## 2.7 Business Card Exchange



Bluetooth Manager - Business Card Exchange

As the *Business Card Exchange* screen shows as above, you can 1) send business card to others by using Bluetooth; 2) receive a business card from other Bluetooth devices; 3) exchange business cards with others via Bluetooth.

To send, receive or exchange business cards:

1. Click  icon from the Bluetooth Manager.
2. Click an icon that you would like to execute.
3. Select the name of the remote device from “*Select a Bluetooth device*” screen and then click OK button.



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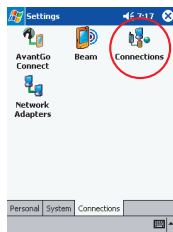
**Note:** You must first specify your default business card in the Information Exchange tab of the Bluetooth Configuration before sending or exchanging business card(s).

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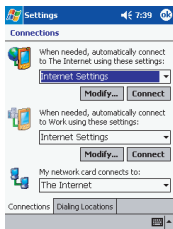
## 2.8 Establish a Connection configuration on handheld device

**Note:** Windows CE 3.0 users can refer to this [Pocket PC 2002 instruction](#) as well, most configuration screens are similar and without any difficulty to comprehend.

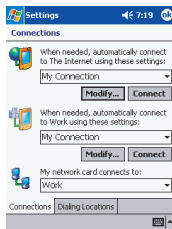
1. Click  from the Today screen in the handheld device. Then click *Settings* button in the drop-down menu.
2. There are 3 tabs in the *Settings* screen, switch to *Connections* tab.
3. Click  icon to enter *Connections* configuration screen. There are 2 tabs in the screen: *Connections* tab and *Dialing Locations* tab.



- In the *Connections* tab -

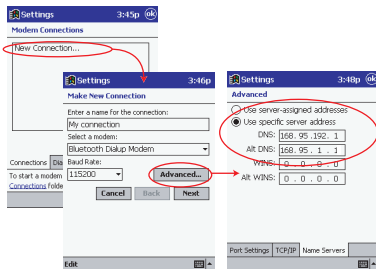


Default status



After configured

1. Tap *Modify* button to create a new connection for dial-up networking in



the *Connections* tab.

2. Enter a name for the new connection in the *Make New Connection* screen, for example: **My connection**.
3. Select **“Bluetooth Dialup Modem”** from the drop-down list in the *Select a Modem* column.
4. Then set Baud rate to **19200**.
5. Click **Advanced...** button to enter *Advanced* screen.

6. Switch to **“Name Servers”** tab from the *Advanced* screen.

7. Select **“Use specific server address”** option and then assign a remote DNS IPs in the *DNS* and *Alt DNS* (dispensable) columns. Click *ok* button to return to previous screen.

---

**Note:** You can assign a DNS server’s address that physically exists on internet in *Use specific server address* option. We recommend you to pick on a DNS server address in the vicinity of your residence or ask for the address from the local ISP to gain better bandwidth quality.

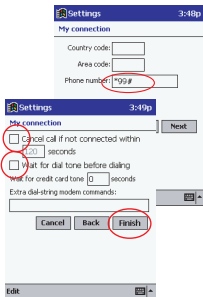
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8. Click *Next* button to indicate the phone number.

9. Leave the *Country code* and *Area code* options empty, fill in **\*99#** in the *Phone number* option. Then click *Next* button to continue.

(Note: The number **\*99#** is only available for users who dwell in Asia such as Taiwan, Hong Kong and China, etc. The ISPs that locate in these countries have set up GPRS service. If you don’t reside in those countries, please contact your ISP directly to gain the proper GSM or GPRS service for dialing-up)

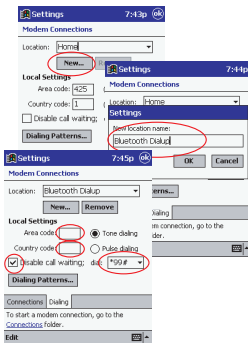





10. Uncheck both 'Cancel call if not...' and 'Wait for dial tone before dialing...' options, and click *Finish* button to end the configuration.

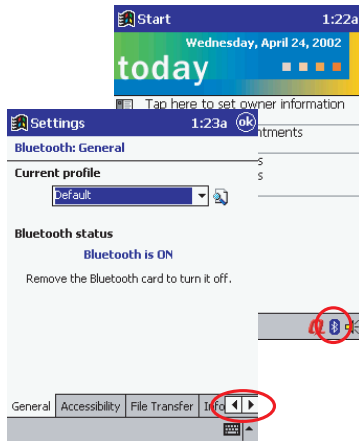
#### - Dialing tab -

1. Switch to *Dialing* tab from the Modem Connections screen.
2. Click *New...* button to create a new location, for example: *Bluetooth Dialup*.
3. Leave 'Area code' and 'Country code' options empty. Then check the 'Disable call waiting' option.
4. Fill in *\*99#* in the 'dial' option. Then click *ok* button to close this screen.



### 3. Bluetooth Control Panel

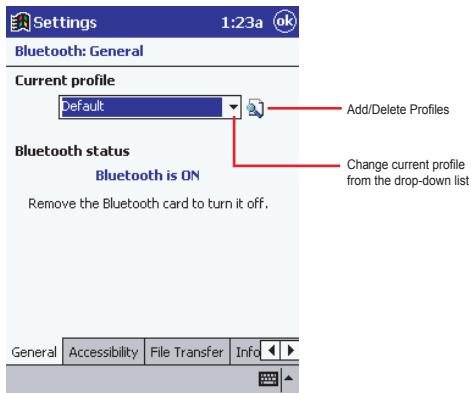
All Bluetooth settings can be configed from *Bluetooth Control Panel*. Click on  icon from the lower-right toolbar of Today screen to access Bluetooth Control Panel.



Access to Bluetooth Control Panel

The Control Panel provides 7 tabs for adjusting parameters respectively. You can scroll back-and-forth all tabs by using right/left arrow button to the right of the tab names, and enter some tab by clicking on the its tab name.

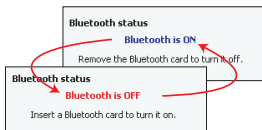
### 3.1 General tab



Bluetooth Control Panel - General tab

- **Current profile:** you can change, add, rename or delete any selected profile. Please read the next page to get more about **Profile**.
- **Bluetooth status:** indicates the current status of Bluetooth. If BT100 CF card is plugged, the screen shows *Bluetooth is ON*.

When Bluetooth is enabled, the battery drain is substantially greater than when Bluetooth is disabled. Accordingly, if you want to conserve existing battery power, disable Bluetooth function when it's not being used.



### 3.1.1 Profile (New/Delete/Rename):

For Single user: you can re-configure Bluetooth for a different environment. This Pocket PC may be used when you are at office, at home or on trip, therefore it's convenient to switch to a pre-configured profile for various purpose such as more secure settings for public environments.

For Multi-user: With customized profiles, different users can easily and quickly configure Bluetooth to their own personal preferences. If a Pocket PC is used by two or more people, everyone can speedily change profile to their regular one that they are used to familiar with.



Add/Delete Profiles

### **3.1.1-1 Add A New Profile:**

- 1) Click on the *New* button.
- 2) Enter a name for the new profile.
- 3) Select an existing profile to present the configuration data of the profile.
- 4) Click *OK* button.

Once new profile is added, you should activate this new profile by selecting it manually from the drop-down list in the “*Current profile*” field.

### **3.1.1-2 Rename A Profile:**

- 1) Click on the profile that you want to rename it.
- 2) Enter a new name for the profile.
- 3) Click *OK* button.

### **3.1.1-3 Delete A Profile:**

- 1) Click on the profile that you want to delete.
- 2) Click *Yes* button to confirm the deletion.

### 3.2 Accessibility



Bluetooth Control Panel - Accessibility tab

#### - Device Identification:

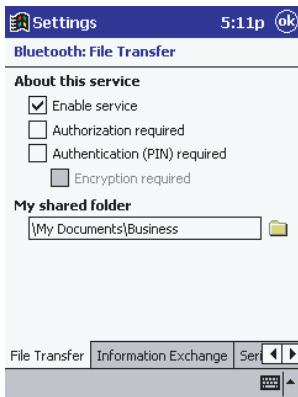
- Name*: the name of this device. This name will display to other devices.
- Address*: the Bluetooth Device Address(BDA) of this device. This unique value is fixed during the manufacturing process and can not be changed.

#### - Accessibility:

- Allow other devices to connect*:
  - All devices: enable this option to allow all devices to connect.
  - Paired devices only: enable this option to allow only devices that have paired with this device to connect.

- b. *Other devices can discoever me*: enable this option to make other Bluetooth devices can see and report this device.

### 3.3 File Transfer



Bluetooth Control Panel - File Transfer tab

**- About this service:**

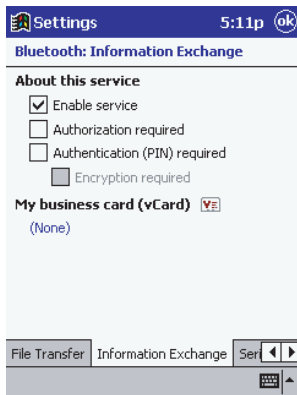
- a. *Enable service*: enable this item to allow other devices to use this service.
- b. *Authorization required*: enable this item to control whether allow other device to use this service or not.
- c. *Authentication (PIN) required*: enable this item to provide a passkey to other devices when they attempt to use this service.

**- My shared folder:**

You can designate a File Transfer directory by clicking on  icon.



### 3.4 Information Exchange



Bluetooth Control Panel - Information Exchange tab

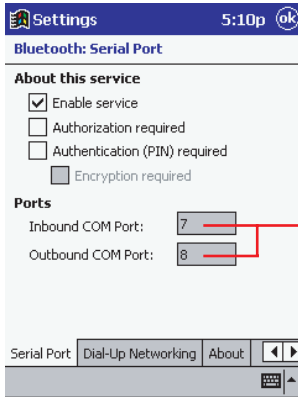
**- About this service:**

- Enable service:* enable this item to allow other devices to use this service.
- Authorization required:* enable this item to control whether allow other device to use this service or not.
- Authentication (PIN) required:* enable this item to provide a passkey to other devices when they attempt to use this service.

**- My business card (vCard):**

You can designate a File Transfer directory by clicking on  icon.

### 3.5 Serial Port



Bluetooth Control Panel - Serial Port tab

**- About this service:**

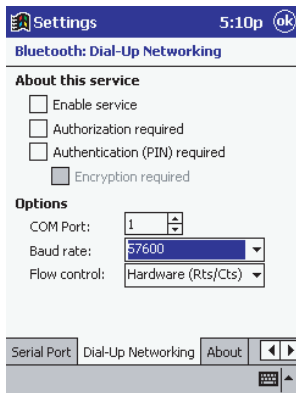
- Enable service*: enable this item to allow other devices to use this service.
- Authorization required*: enable this item to control whether allow other device to use this service or not.
- Authentication (PIN) required*: enable this item to provide a passkey to other devices when they attempt to use this service.

**- Ports:**

Inbound COM Port: the local communications port that is used for inbound serial connections.

Oubound COM Port: the local communications port that is used for out-bound serial connections.

### 3.6 Dial-Up Networking



Bluetooth Control Panel - Dial-Up Networking

#### - About this service:

- Enable service*: enable this item to allow other devices to use this service.
- Authorization required*: enable this item to control whether allow other device to use this service or not.
- Authentication (PIN) required*: enable this item to provide a passkey to other devices when they attempt to use this service.

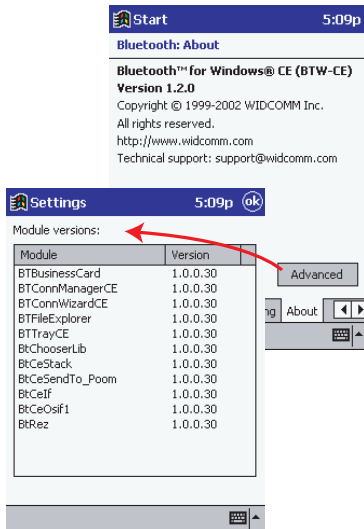
#### - Options:

*COM Port*: select a communication port to be used.

*Baud rate*: click the down arrow and choose a baud rate from the list. The baud range is from 1,200 to 115,200.

*Flow control*: click the down arrow and choose a control type from the list. The options are *Off* and *Hardware (Rts/Cts)*.

### 3.7 About



Bluetooth Control Panel - About tab

This tab describes some informations about:

- Software version
- Copyright notice
- Technical support contact
- Advanced button: contains the individual software modules version information.



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