



IVT BlueSoleil™ for WinCE

User Manual (Pocket PC)

Version: 1.2.4

This document describes how to install and use IVT BlueSoleil™ for WinCE.

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1 Introduction

BlueSoleil™ for WinCE is a Windows CE-based Bluetooth wireless software suite from IVT. It is fully compliant with the latest Bluetooth SIG specifications.

BlueSoleil™ for WinCE V1.2.4 includes seven Bluetooth application profiles. The following table indicates which of these profiles is available for client and server devices.

	Profile Description	Client	Server
PAN	Personal Area Networking	Y	Y
SPP	Serial Port	Y	Y
DUN	Dial-Up Networking	Y	Y
LAP	LAN Access	Y	N
OPP	Object Push	Y	Y
FAX	Bluetooth Fax	Y	Y
FTP	File Transfer Profile	Y	Y

This guide describes how to install and use BlueSoleil™ for WinCE, including:

- ◆ How to install and remove BlueSoleil™ for WinCE.
- ◆ How to start and exit BlueSoleil™ for WinCE.
- ◆ How to navigate the main operation windows of BlueSoleil™ for WinCE.
- ◆ How to use the Menu and Tool Bar.
- ◆ How to configure a Bluetooth device.
- ◆ How to use the Bluetooth profiles.

2 Features of BlueSoleil™ for WinCE 1.2.4

2.1 Connection Management

The **connection** is an instance of a Bluetooth profile client-side implementation. Seven types of connection are supported in this version of the BlueSoleil™ for WinCE software: LAN Access using PPP connection, Dial-up Networking connection, Serial Port connection, Personal Area Networking connection, Bluetooth Fax connection, File Transfer connection and Object Push connection. Connection management includes the following operations:

- ◆ Create New Connection
- ◆ Rename Connection
- ◆ Remove Connection
- ◆ Connect
- ◆ Disconnect
- ◆ Set as Default

2.2 Device Management

Device refers to a device that provides Bluetooth service(s), for example, Headset, Modem, Notebook, PC, Pocket PC (or PDA) and Handset. Device management includes the following operations:

- ◆ Search Devices
- ◆ Browse Services
- ◆ Stop Searching Devices

2.3 Configuration Management

Configuration management includes:

- ◆ Local Device Configuration
- ◆ Paired Devices Configuration
- ◆ Service Configuration

3 Installation

3.1 Preparation

Before installing the BlueSoleil™ for WinCE software on a Pocket PC, prepare a PC as follows:

- ◆ If not already installed, install Windows XP/2000/98 on the PC.
- ◆ Install synchronization software such as Microsoft ActiveSync on the PC.
- ◆ Copy the BlueSoleil™ for WinCE setup pack to the PC.
- ◆ Connect the Pocket PC to the PC through a serial port or USB connection cable.
- ◆ Make sure that Microsoft ActiveSync has been activated.

3.2 First Time Installation

The following steps outline how to install IVT BlueSoleil™ for WinCE on a Pocket PC for the first time:

Step 1: On the prepared PC, double-click the 'setup.exe' file from the BlueSoleil™ for WinCE setup pack. A dialog box **Choose Setup Language** appears (Figure 3.1). Choose your preferred setup language and press **OK**.



Figure 3.1 Choose Setup Language

Step 2: The **InstallShield Wizard** dialog box appears. The InstallShield Wizard acts as a guide through the setup process (Figure 3.2). (To exit the setup, click the **Cancel** button.)

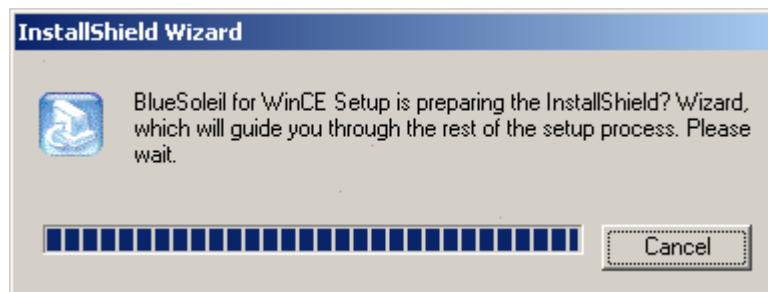


Figure 3.2 Preparing InstallShield Wizard

Step 3: Once the InstallShield Wizard is ready, a **Welcome** dialog box appears (Figure 3.3). Click the **Next** button. A license agreement appears, click **Yes** to continue the setup process.

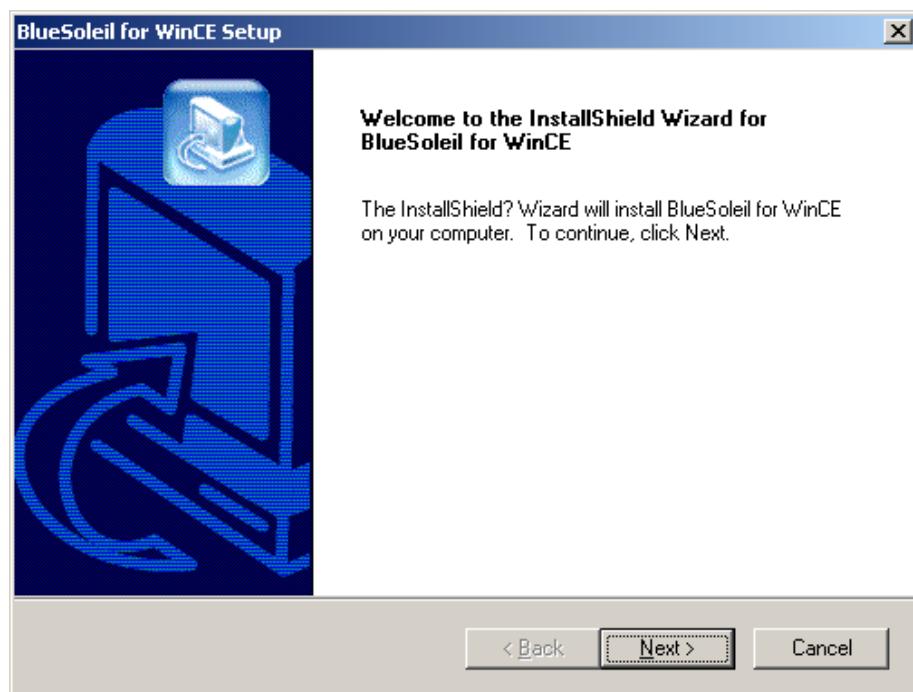


Figure 3.3 Welcome to InstallShield Wizard

Step 4: The installation files will then be copied to the Pocket PC and the dialog box shown in Figure 3.4 appears on the PC.

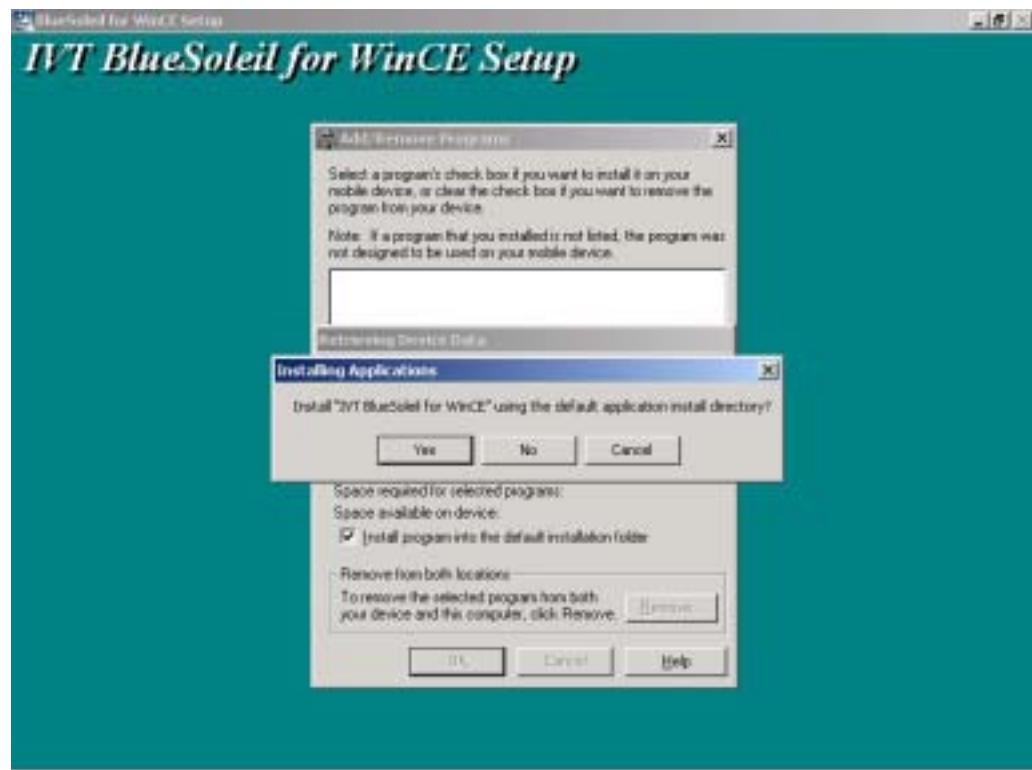


Figure 3.4 Installing BlueSoleil™ for WinCE on Pocket PC

Step 5: A dialog box appears. Before click the **OK**, please check your mobile device to see if additional steps are necessary to complete this installation. (Figure 3.5).

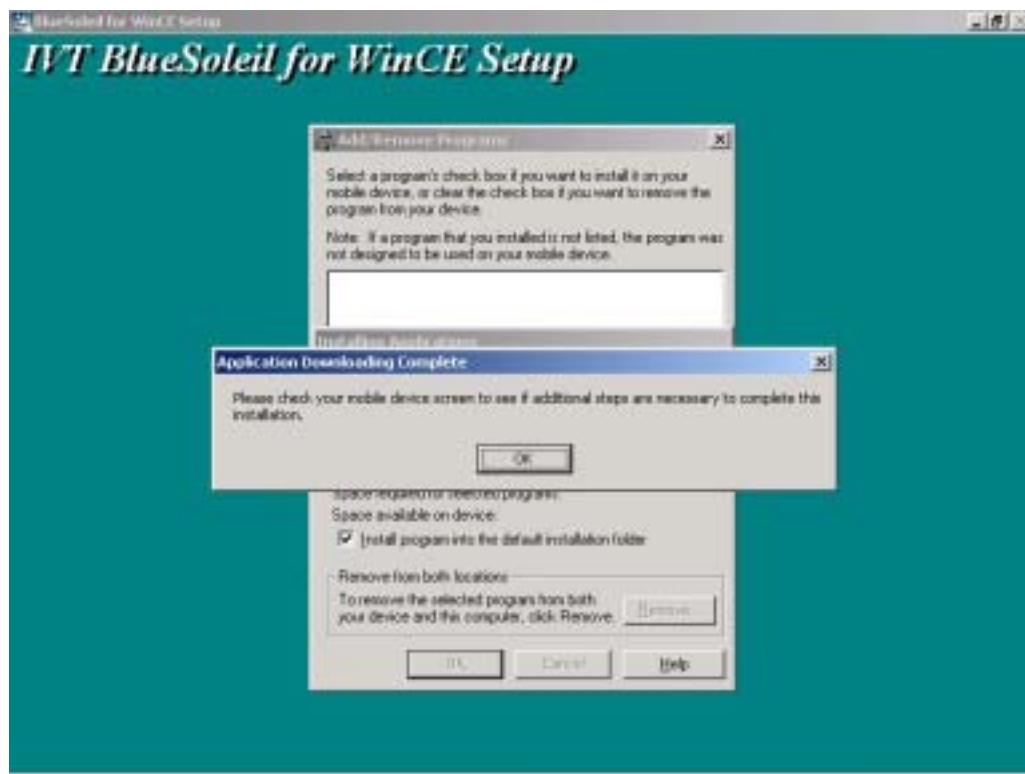


Figure 3.5 BlueSoleil™ for WinCE is successfully installed

Step 6: A dialog box appears indicating that BlueSoleil™ for WinCE is now successfully installed on the Pocket PC. Click the **Finish** button, and installation is over. (Figure 3.6)

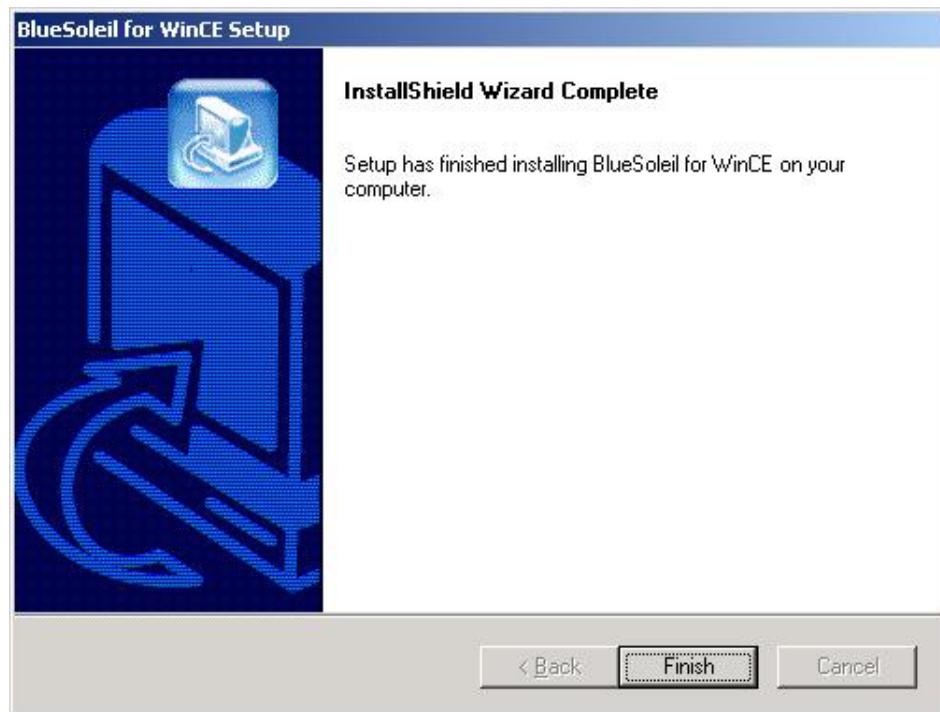


Figure 3.6 Installation is finished

Step 7: A warning window will appear in the Pocket PC, click the **OK** to reset your Pocket PC.(Figure 3.7)



Figure 3.7 Reset your Pocket PC

3.3 Remove BlueSoleil for WinCE

Step 1: Go to Windows CE **Start** | **Settings** | **System** | **Remove Programs**. (Figure 3.8)



Figure 3.8 Select Remove Programs Icon

Step 2: Select **BlueSoleil™ for WinCE** in the **Remove Programs** pop-up window (Figure 3.9). Click **Remove**.

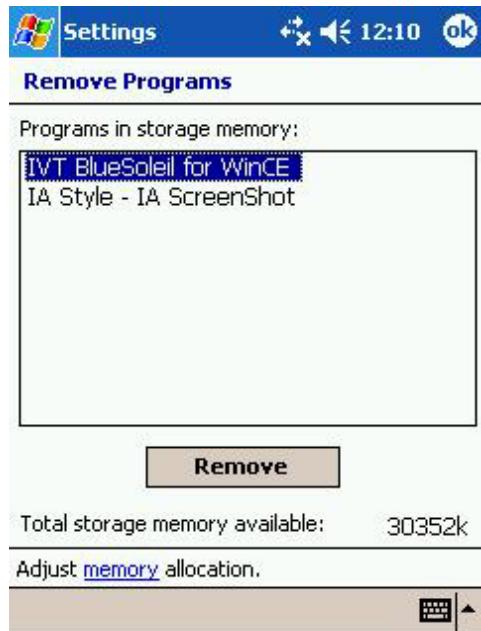


Figure 3.9 Remove BlueSoleil for WinCE Program

Step 3: Select **Yes** to confirm that you want to remove the BlueSoleil™ for WinCE program from the Pocket PC. If the program still exit, please choose it and click remove again. (Figure 3.9).



Figure 3.10 Confirm Removal of BlueSoleilTM for WinCE

3.4 Reinstall\ Upgrade BlueSoleil for WinCE

The following steps outline how to reinstall/ upgrade BlueSoleil™ for WinCE

Step 1: Please remove Bluesoleil for WinCE in you Pocket PC, according to the steps described in 3.3 chapter.

Step 2: Install the Bluesoleil for WinCE on your Pocket PC, according to the steps described in 3.2 chapter.

4 BlueSoleil™ for WinCE Graphical User Interface

4.1 Start BlueSoleil™ for WinCE

Step 1: After installation, a BlueSoleil™ icon appears in the **Programs** of Windows CE system (Figure 4.1). Double click the **BlueSoleil** icon to start the BlueSoleil™ for WinCE application.



Figure 4.1 BlueSoleil Icon in Programs Menu

Step 2: A Notify icon appears on the bottom right of the screen (Figure 4.2).

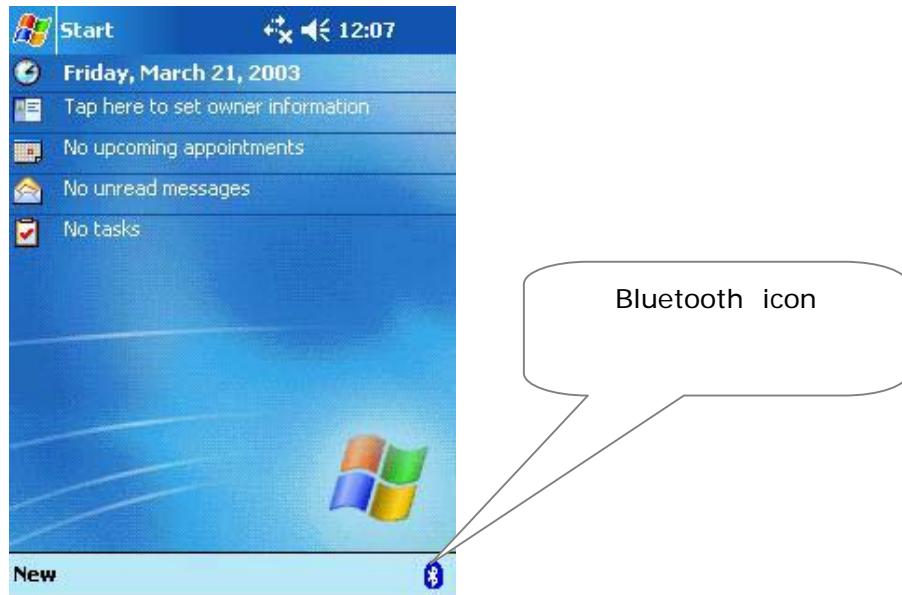


Figure 4.2 BlueSoleil™ for WinCE Notify Icon

4.2 Notify Menu

If you click the Notify icon, a pop-up menu appears (Figure 4.3).



Figure 4.3 Notify Menu

The following menu options are available:

- ◆ **Bluetooth Manager:** Access the Bluetooth Manager windows. These are the main operation windows of the application.

- ◆ **Start ActiveSync:** Start ActiveSync with default Serial Port connection shortcut.
- ◆ **Dial-Up to Internet:** Dial up the Internet using the default Dial-up Networking shortcut. (Once you have created a default Dial-up Networking shortcut, you can access the Internet by simply clicking on the shortcut.)
- ◆ **Personal Network Access:** Set up the default Personal Area Networking connection. (Once you have created a default PAN shortcut, you can access other Bluetooth devices by simply clicking on the shortcut.)
- ◆ **Discoverable:** Set the local device to be discoverable for other Bluetooth devices.
- ◆ **Status:** Show the Status window.
- ◆ **Exit:** Quit BlueSoleil™ for WinCE.

4.3 Operation Windows

There are three operation windows in BlueSoleil™ for WinCE:

- ◆ **Device window:** This is the main window of the application. It provides information of found devices and provides some operations such as searching devices' services.
- ◆ **Shortcut window:** Shows information on shortcuts and provides some operations such as removing/ renaming shortcuts.
- ◆ **Status window:** Indicates status information of active Incoming Connections and Outgoing Connections and enables the disconnection of connections.

To navigate these operation windows, click the **Bluetooth Manager** on the Notify Menu and enter the main window of the application, the **Device Window**.

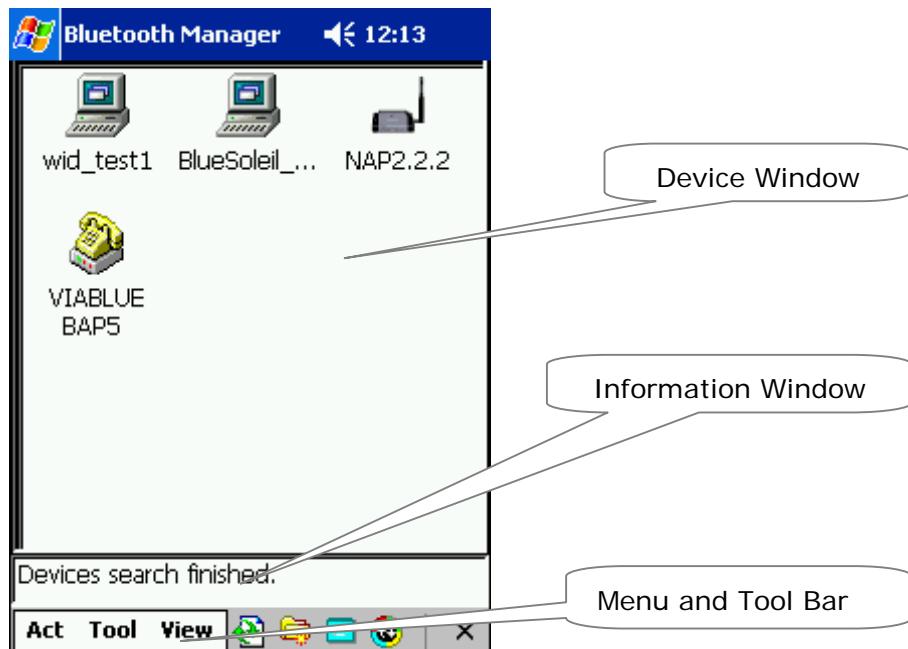


Figure 4.4 Main Window of Bluetooth Manager

The screen is divided into three areas: Device window, Information window and Menu and Tool Bar. The **Device window** shows the Bluetooth devices found nearby. Double click a device icon to identify its services. The Device window highlights the found services as shown in Figure 4.5.

Note: Different device icons and service icons represent different device and service classes. Refer to the Appendix, Section 7.1 to find the exact meaning of each icon.

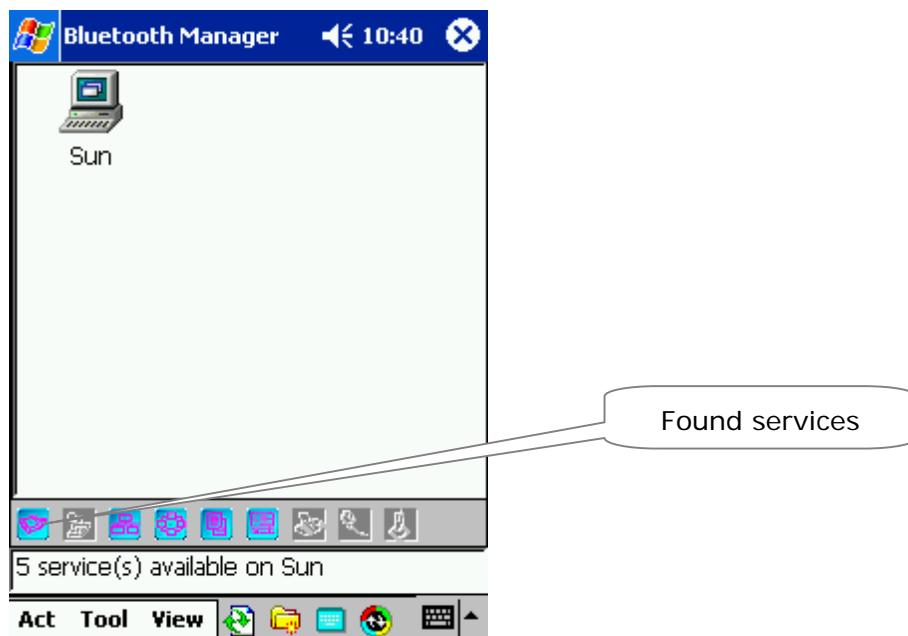


Figure 4.5 Found Services

Click on a highlighted service icon to make the particular connection with the remove service. Once the connection is set up successfully, this connection will be saved as a shortcut and the Device window will automatically switch to the **Shortcut Window**, Figure 4.6.

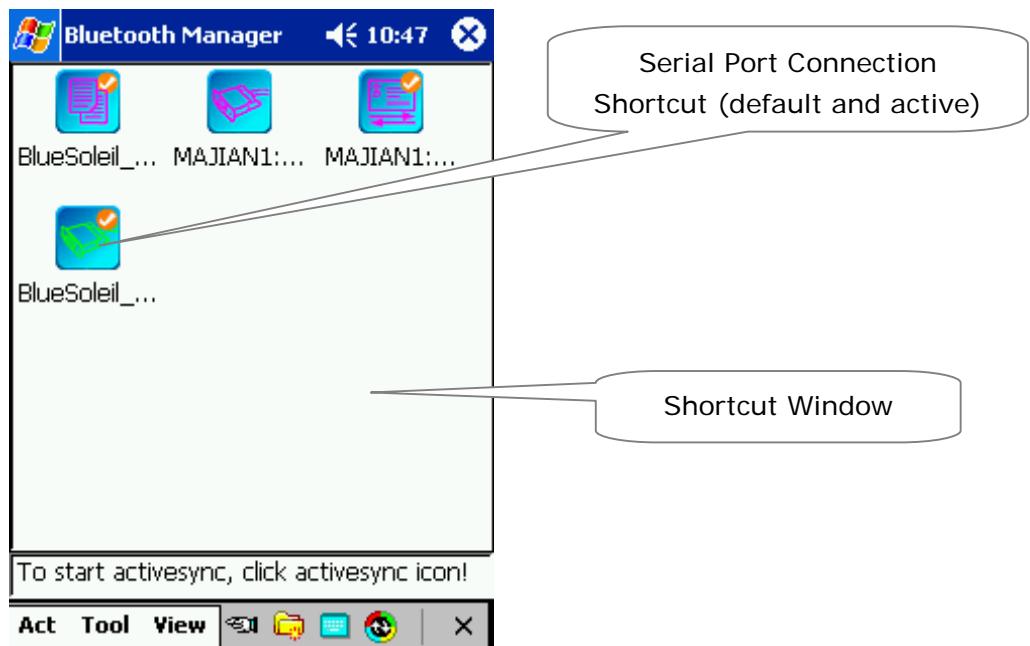


Figure 4.6 Shortcut Window After a Connection Is Set Up

Note: Different shortcut icons represent different connection classes and status. Please refer to the Appendix, Section 7.1 to find the exact meaning of each shortcut icon.

Double click a shortcut icon and a menu pops up as shown in **Figure 4.7**



Figure 4.7 Shortcut Pop-up Menu

The following menu options appear:

- ◆ **Remove:** Remove the shortcut.
- ◆ **Rename:** Rename the shortcut.
- ◆ **Connect:** Make a connection with this shortcut. (Only enabled when the shortcut connection is inactive.)
- ◆ **Disconnect:** Disconnect the shortcut connection. (Only enabled when the shortcut connection is active.)
- ◆ **Set as Default:** Set the shortcut as the default shortcut. Then when the corresponding set up default connection command on the Notify Menu is selected, this shortcut connection will be set up.
- ◆ **Property:** Show the connection property of the active shortcut.

To disconnect a connection, click **Disconnect** on the Shortcut pop-up menu or disconnect from the Status window.

Click the Status window button  on the Tool Bar or the item **Status** on the Notify Menu to switch the current window to the **Status window** (Figure 4.8).

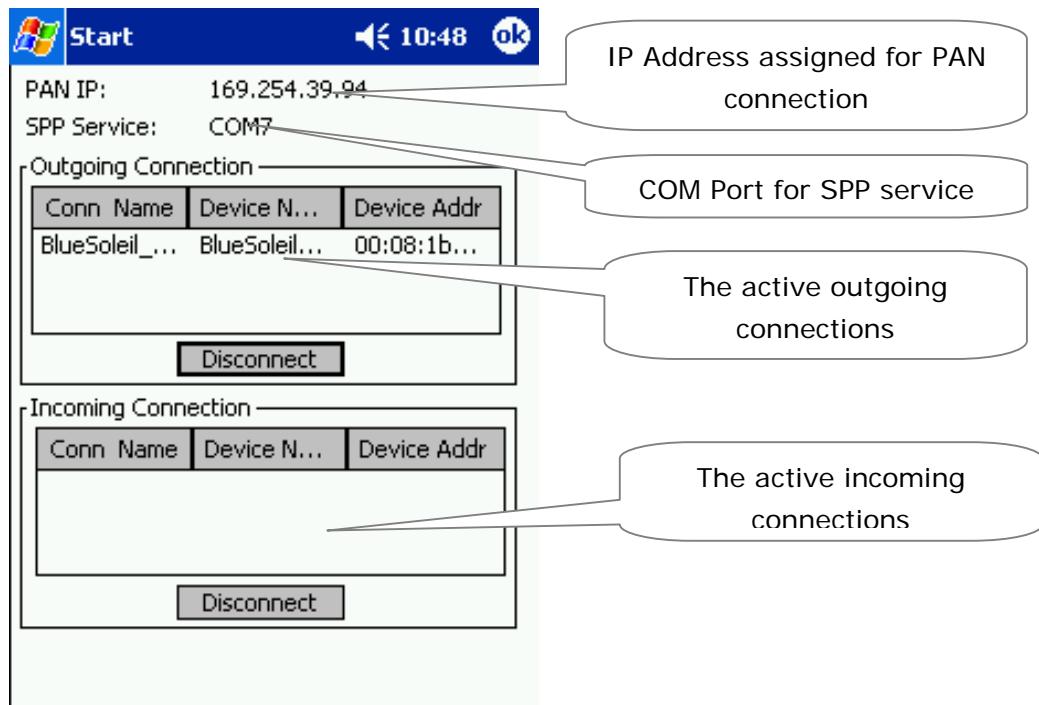


Figure 4.8 Status Window

Disconnect a connection by selecting the connection and clicking the **Disconnect** button.

4.4 Menu and Tool Bar

There are three menus on the Menu and Tool Bar of BlueSoleil™ for WinCE.

The **Act** menu contains the following items:

- ◆ **Discoverable:** Set local device Discoverable. Other devices can discover it.
- ◆ **Devices Nearby:** Switch to Device window.
- ◆ **Shortcut Window:** Switch to Shortcut window.
- ◆ **Status Window:** Switch to Status window.
- ◆ **Close Window:** Close the Bluetooth Manager window and only show the Notify icon.

The **Tool** menu contains the following items:

- ◆ **Add Device:** Manually add a device with which you want to connect.
- ◆ **Remove All:** Remove all shortcuts in the Shortcut window.
- ◆ **Configuration:** Configuration contains three function:
-Configure Local Device:

Configure the parameters of the local device.

-Configure Paired Device:

Maintain the information of paired devices.

-Configure Local Service

Configure the information of the Local service

◆ **About:** Show software version.

The **View** menu contains two items:

◆ **Icons:** Switch to Icon view.

◆ **Details:** Switch to List view.

The Tool Bar of the BlueSoleil™ for WinCE GUI contains the following buttons:

	Switch to Devices Window
	Search Devices
	Stop Searching Devices
	Start ActiveSync
	Switch to Shortcut Window
	Switch to Status Window

5 Configure Bluetooth Device

5.1 Configure Local Device Information

Click **Configuration** on the **Tool** menu. In the popup **Options** dialog, click **Local Device** tab (Figure 5.1).

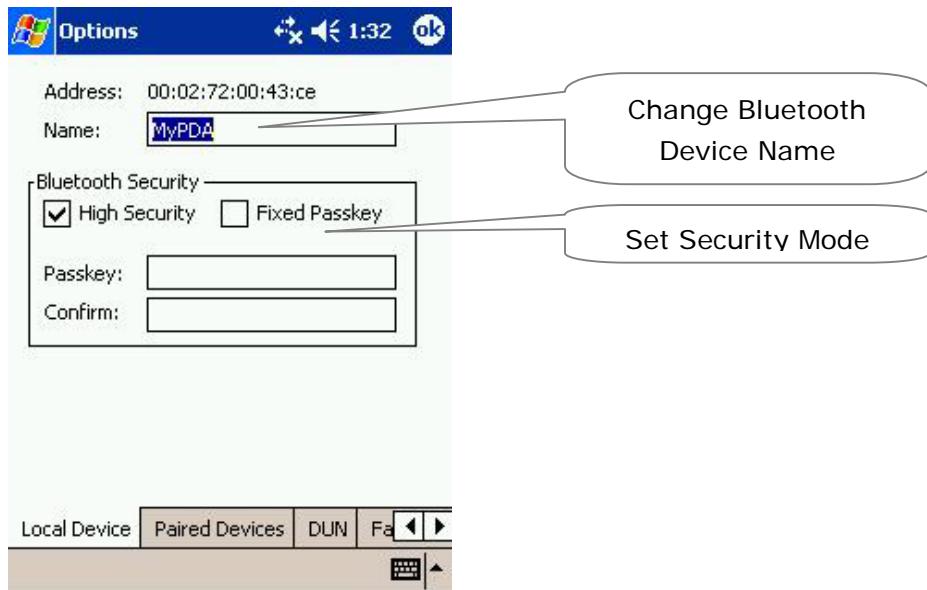


Figure 5.1 Local Device Configuration

In the **Configure Local Device** page, the following operations are available:

- ◆ Set the Bluetooth device name.
- ◆ Set the local Bluetooth device's security mode.
 - High: Security Mode 3, input passkey to connect
 - Low: Security Mode 1, no security check
- ◆ Set the fixed passkey for the local device by ticking the **Fixed Passkey** checkbox. Input the passkey in both the **Passkey** Edit box and the **Confirm** Edit box.

5.2 Configure Paired Devices Information

Click **Configuration** on the **Tool** menu. In the popup **Options** dialog click **Paired Device** tab (Figure 5.2).

Remove a paired device by selecting it and then click the **Remove Device** button.

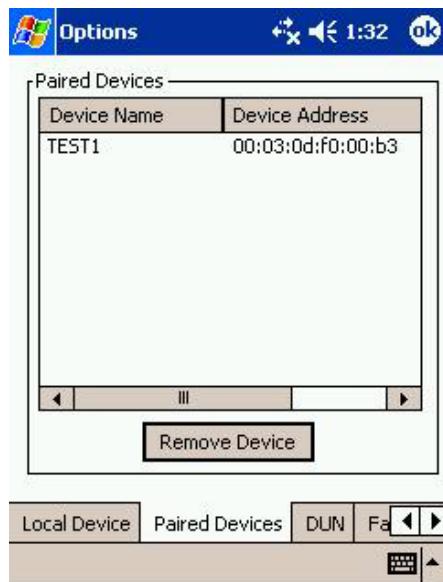


Figure 5.2 Paired Devices Configuration

5.3 Configure DUN Server Information

Click **Configuration** on the **Tool** menu. In the popup **Options** dialog click **DUN** tab (Figure 5.3).

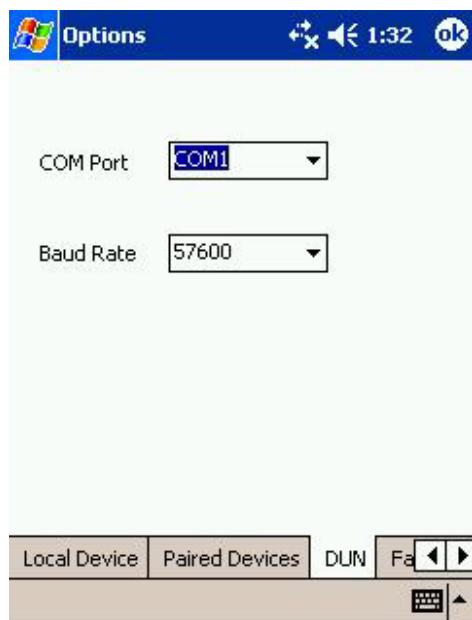


Figure 5.3 DUN Service Configuration

In the **Configure DUN** page, the following operations are available:

- ◆ Set the local DUN Server COM port.
- ◆ Set the local DUN Server Baud Rate.

5.4 Configure FAX Server Information

Click **Configuration** on the **Tool** menu. In the popup **Options** dialog click **FAX** tab (Figure 5.4).

In the **Configure FAX** page, the following operations are available:

- ◆ Set the local FAX Server COM port.
- ◆ Set the local FAX Server Baud Rate.

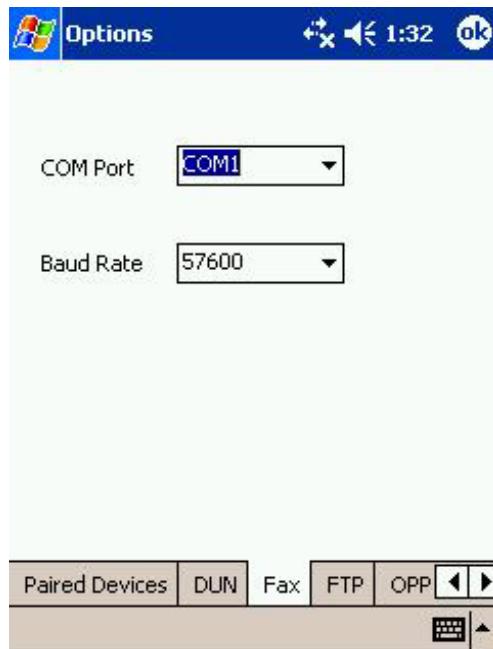


Figure 5.4 FAX Service Configuration

5.5 Configure FTP Server Information

Click **Configuration** on the **Tool** menu. In the popup **Options** dialog click **FTP** tab (Figure 5.5).

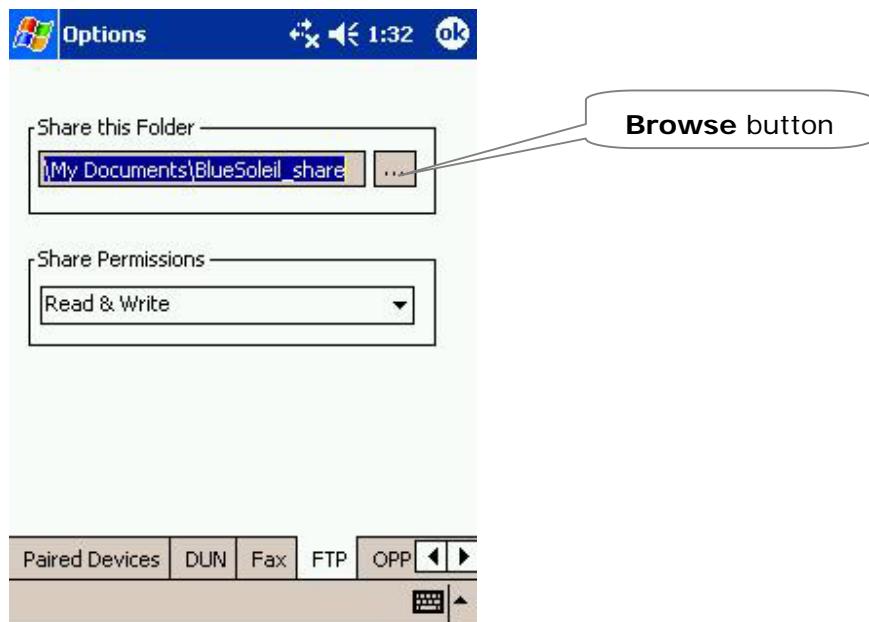


Figure 5.5 FTP Service Shared Folder Configuration(1)

In the **Configure FTP** page, the following operations are available:

- ◆ Set the local FTP Server shared folder.
Click the **Browse** button. In the popup **Select Directory** dialog, select a folder and click **Select** button () .



Figure 5.6 FTP Service Shared Folder Configuration(2)

- ◆ Set the local FTP Server share permissions (Figure 5.7).
 - **Read & Write:** Remote client has both read and write permission of the shared folder
 - **Read Only:** Remote client only has read permission of the shared folder

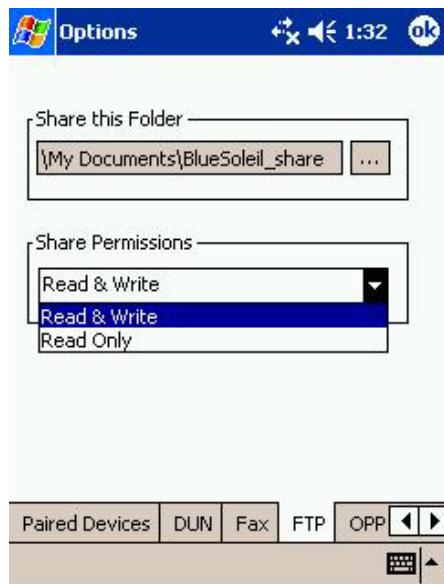


Figure 5.7 FTP Service Shared Folder Configuration

5.6 Configure OPP Information

Click **Configuration** on the **Tool** menu. In the popup **Options** dialog click **OPP** tab (Figure 5.8).

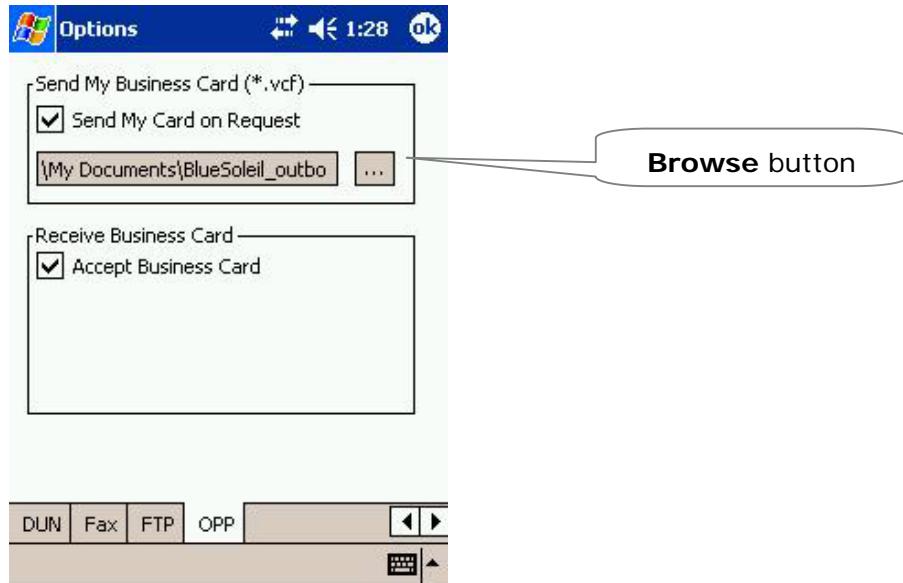


Figure 5.8 OPP Configuration

In the **Configure OPP** page, the following operations are available:

- ◆ Set **Default Business Card**.

Click the **Browse** button. In the Window CE Contacts program, select a contact

item and then click the **Tools|Set as Default** menu or click **Set as Default** in the popup menu (**Figure 5.9**).

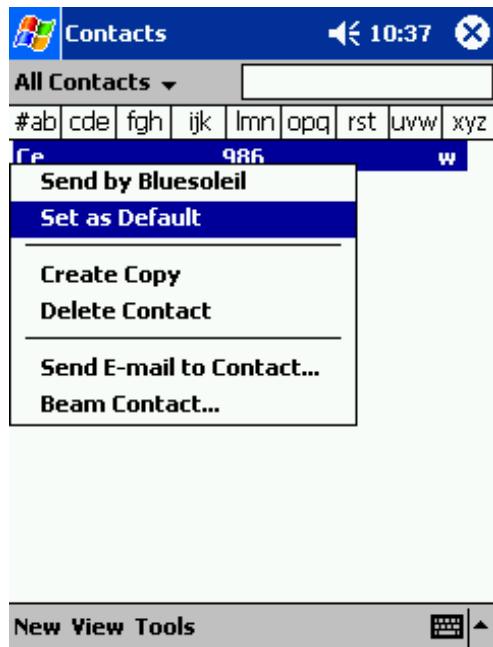


Figure 5.9 OPP Default Business Card Configuration

- ◆ Set local OPP Server **Send My Card on Request**.
Tick the **Send My Card on Request** checkbox, the local OPP server will send the default business card when remote OPP client sends pulling request. Otherwise, the local OPP server will refuse the pulling request from the remote OPP client.
- ◆ Set local OPP Server **Accept Business Card**.
Tick the **Accept Business Card** checkbox, the local OPP server will accept the pushed Business Cards from remote OPP client. Otherwise, the local OPP server will refuse the pushed Business Cards.

5.7 Configure the Bluetooth Transport Layer

The application automatically prompts the user to configure the Bluetooth Transport Layer properties. If this is not configured then the **Set Bluetooth Device** window appears. (**Figure 5.10**)



Figure 5.10 Set Bluetooth Device Window

Select the transport layer driver type of the local Bluetooth device as one of the following:

- ◆ USB
- ◆ BCSP
- ◆ UART
- ◆ User Defined

5.7.1 USB Transport Layer Driver

If the transport layer driver type is **USB**, no advanced configuration is needed. Click the **Finish** button to complete the configuration. (Figure 5.11)



Figure 5.11 Select USB Device

5.7.2 BCSP Transport Layer Driver

If the transport layer driver type is **BCSP**, then configure as follows:

Step 1: Select **BCSP**. Click the **Next** button. (Figure 5.12)

Step 2: Configure the detailed parameters of the BCSP. Click **Finish**. (Figure 5.13)

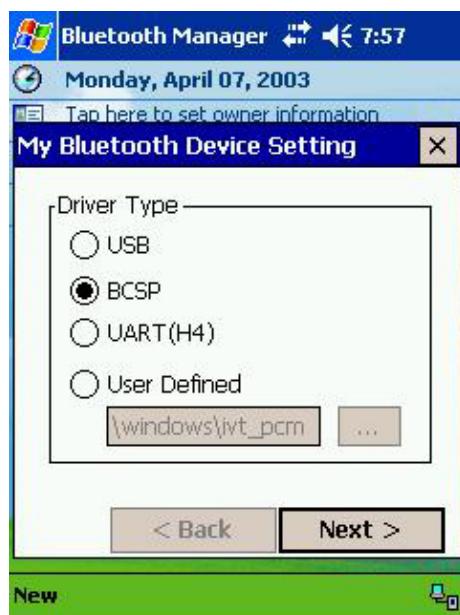


Figure 5.12 Select BCSP Device



Figure 5.13 Set BCSP Device Configuration

5.7.3 UART Transport Layer Driver

If the transport layer driver type is **UART**, then configure as follows:

Step 1: Select **UART**. Click the **Next** button to configure the detailed parameters of the UART. (Figure 5.14)

Step 2: Configure the detailed parameters of the UART. Click **Finish**. (Figure 5.15)



Figure 5.14 Select UART Device

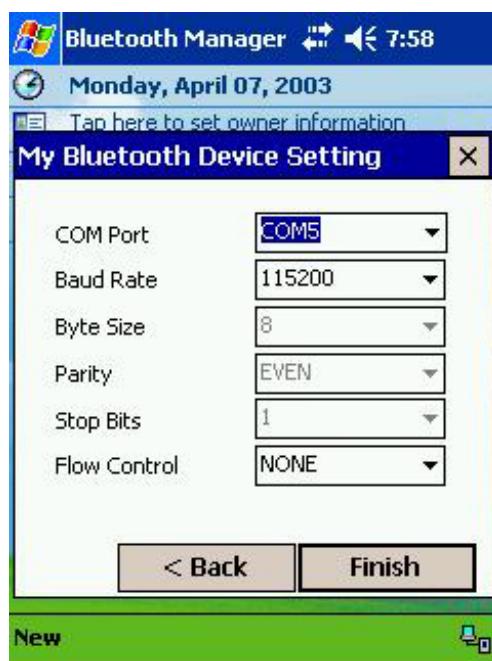


Figure 5.15 Set UART Device Configuration

5.7.4 User Defined Transport Layer Driver

If the transport layer driver type is **User Defined**, then configure as follows:

Step 1: Select **User Defined** (Figure 5.16). Click the **Browse** button to select the driver provided by hardware manufacturer. (The driver file should be copied to a folder that can be browsed and selected.) (Figure 5.17)

Step 2: Click **Finish**.



Figure 5.16 Select User Defined Device

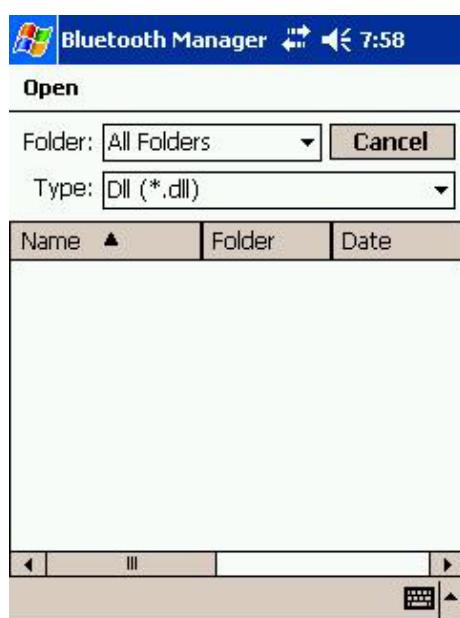


Figure 5.17 Set User Defined Driver

6 Use the Bluetooth Profiles

The following sections outline how to use the Bluetooth Profiles supported by BlueSoleil™ for WinCE version 1.2.4.

6.1 LAN Access

The LAN Access (LAP) application model can be seen as a client/server structure. In this example the LAN Access application of BlueSoleil™ for WinCE is the client (Data Terminal).

6.1.1 Set up a new LAP connection

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the LAP connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use LAP service. (Figure 6.1)

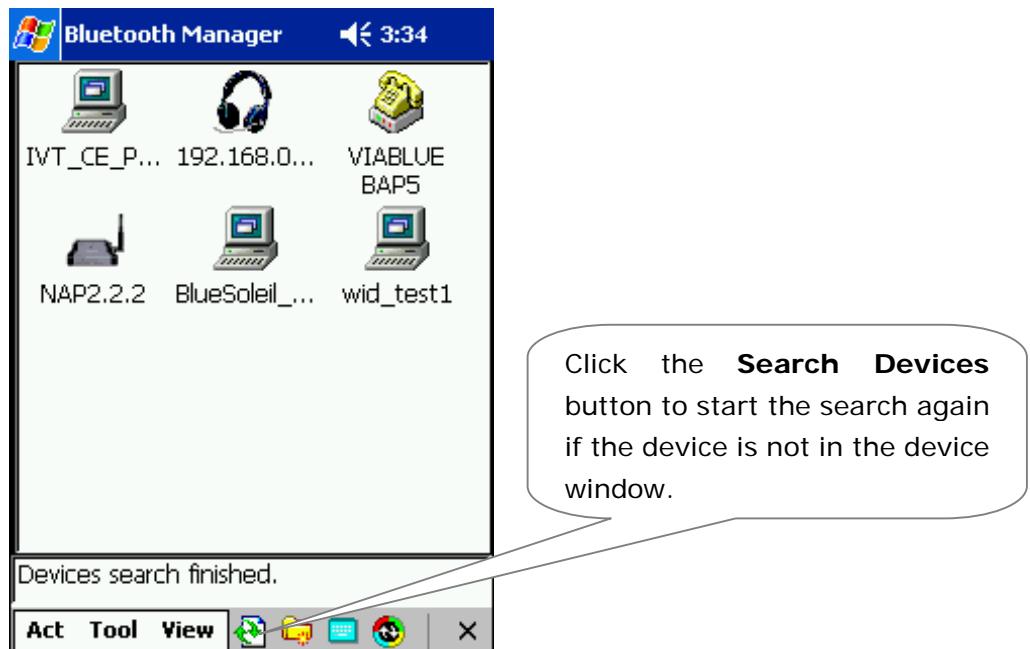


Figure 6.1 Browse Devices

Manually add a device in the device list: click the **Tool** and chose **Add Device** (Figure 6.2). A dialog pops up (Figure 6.3), please fill the **Address** with the Bluetooth device of remote device according to the form described in the Figure 6.4, and click the **OK**. A new device will be shown in the device list. (Figure 6.5)

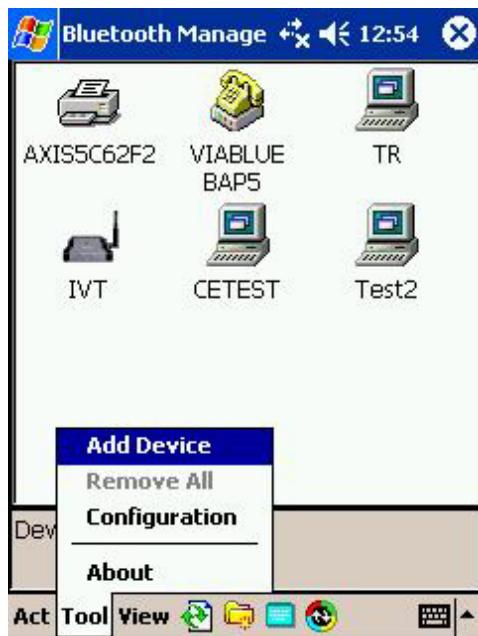


Figure 6.2 Add Device



Figure 6.3 fill the Address



Figure 6.4 Fill the Address and click OK



Figure 6.5 A new device is shown in the device list

Step 2: Search for Services.

Double click the device with which you want to establish a LAP connection to browse its available services. (Figure 6.6)



Figure 6.6 Browse Services

The application may ask you to exchange a passkey, if the devices have not already been paired. Input the correct passkey and press **OK** to continue the connection. (Figure 6.7)

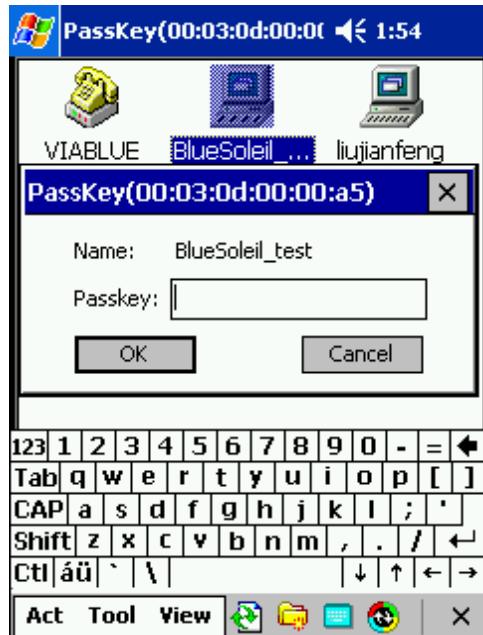


Figure 6.7 Input Passkey

Once the service search is complete, the found services' icons are highlighted. (Figure 6.8)

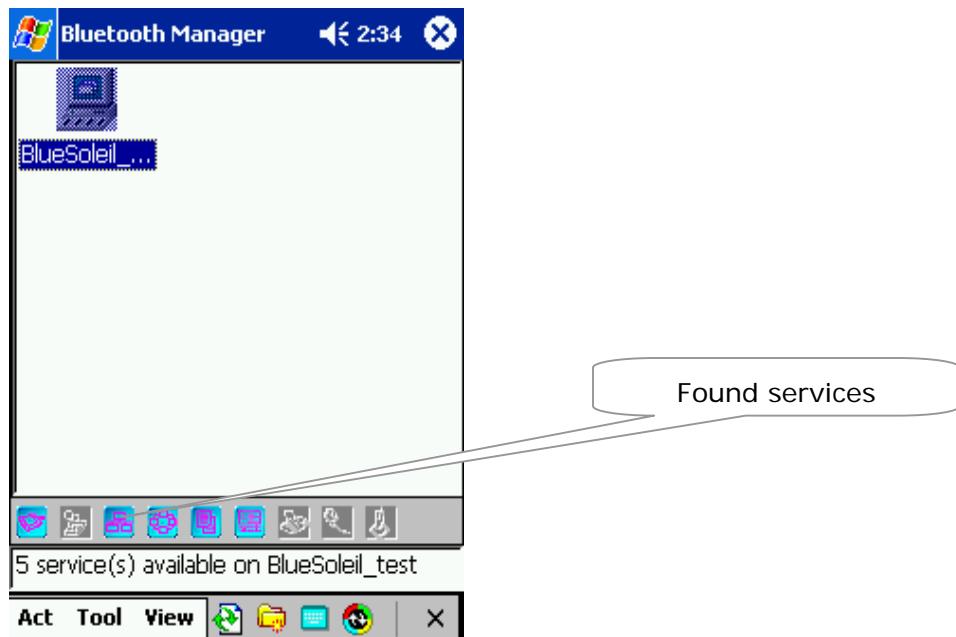


Figure 6.8 Found Services

Step 3: Connect to the LAP server.

Click on the LAP service icon to connect to the remote LAP server. Once the Bluetooth connection is successfully established, a window appears requesting a username and password. (Figure 6.9)

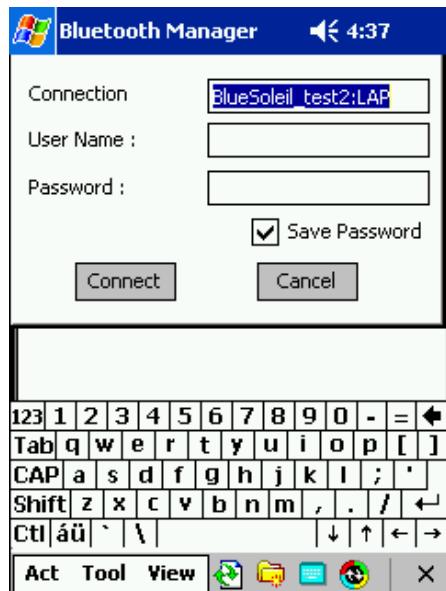


Figure 6.9 Connect to LAN

Input the correct username and password for the connection. Select the **Save Password** checkbox to save the username and password. To continue, click the **Connect** button and the **Connect To** dialog box appears, (Figure 6.10).

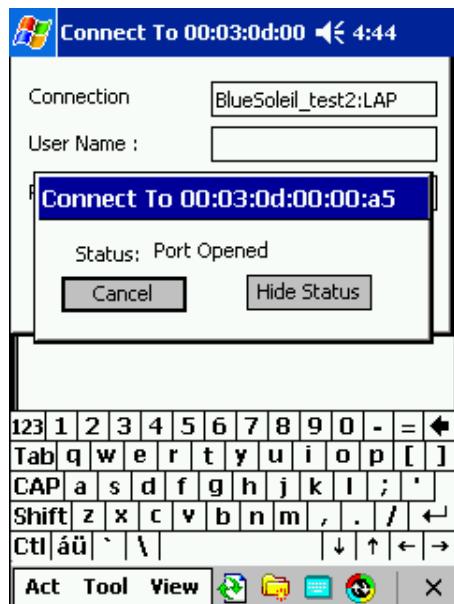


Figure 6.10 Connecting to LAN

If the connection to the LAP service is successful, it will show the Explorer for you to go to internet. At the same time the Device window is switched to the Shortcut window and a corresponding shortcut is created (Figure 6.11)

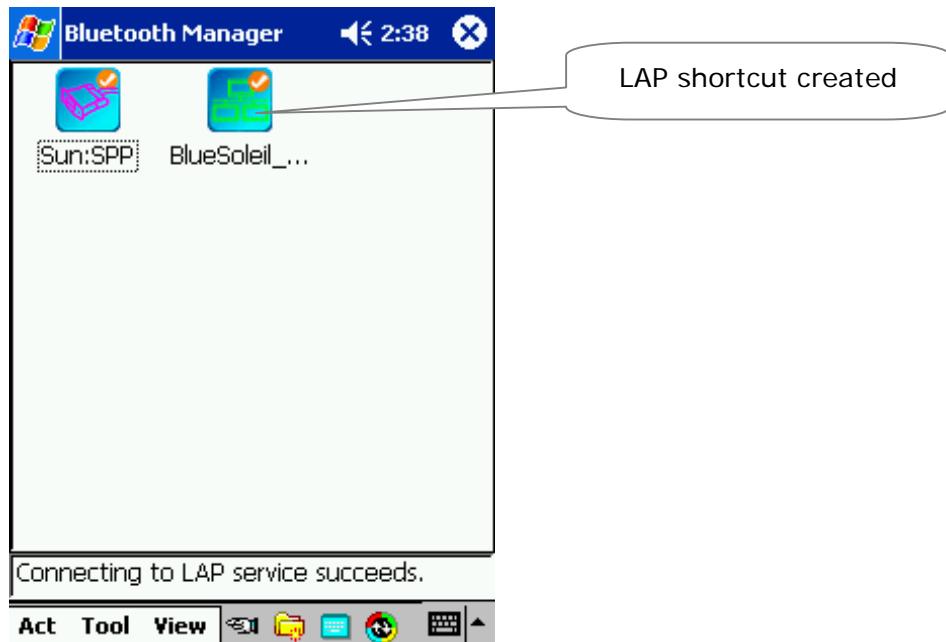


Figure 6.11 LAN Shortcut

Step 4: Application

Now you can use any resource the LAN provides.

6.1.2 Disconnect the LAP connection

You can disconnect the connection in two ways.

Method 1: Double click the LAP shortcut, and click **Disconnect** on the pop-up menu.(Figure 6.12)



Figure 6.12 Disconnect from Pop-up Menu

Method 2: In the Status window, select the LAP outgoing connection and click the **Disconnect** button. (Figure 6.13)



Figure 6.13 Disconnect from Status Window

6.1.3 Use LAN Access Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double-click the particular shortcut icon (represented by the Connection Name) and click **Connect** on the pop-up menu to re-establish the connection.

6.2 Personal Area Network

Personal Area Network (PAN) Model can be seen as client/server structure. BlueSoleil™ for WinCE can act as both the GN server (providing the GN service) and the PANU (client), however it cannot act as both at the same time.

6.2.1 Set up a new PAN Connection

BlueSoleil™ for Windows as PAN User (Client)

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the PAN connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found. The steps of adding device is described in chapter 6.1.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use PAN service. (Figure 6.14)



Figure 6.14 Browse Devices

Step 2: Search for Services.

Double-click the device with which you want to establish the PAN connection to browse its services. (Figure 6.15)



Figure 6.15 Browse Services

The application may ask you to input a passkey if the devices have not already been paired. Input the correct passkey and press **OK** to continue. (Figure 6.16)



Figure 6.16 Input Passkey

Once the service search is complete, the found service icons are highlighted. (Figure 6.17)

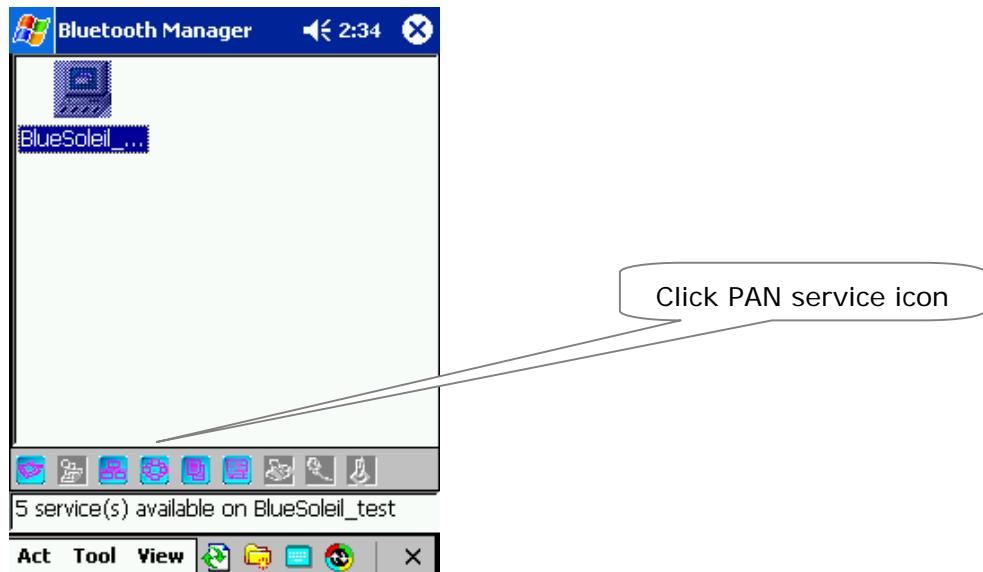


Figure 6.17 Found Services

Step 3: Connect to the PAN server.

Click on the PAN service icon to set up the PAN connection with the remote service. If the connection is successfully established, the Device window is switched to the Shortcut window and a corresponding shortcut is created (Figure 6.18). At the same time, it will show the Explorer for you to visit website and show a process dialog to get the IP address.

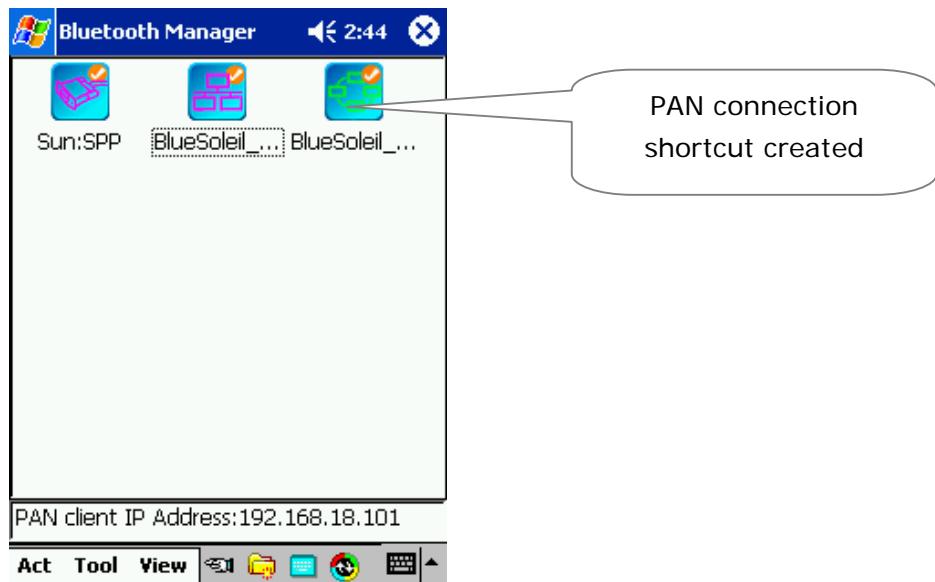


Figure 6.18 Connect to PAN

Step 4: PAN IP Address Configuration

The IP address of the Bluetooth device is configured automatically by the system (Figure 6.19), since the BT Network Adapter is set to use dynamic addressing as default on the Pocket PC.



Figure 6.19 Configure IP Address automatically

Sept 5: Application

Now you can use any resource the PAN server provides. (Figure 6.20)



Figure 6.20 Use resource the PAN Server provides

BlueSoleil™ for WinCE as a PAN Server

If you want the Pocket PC to act as a PAN server, no configuration is needed. The BlueSoleil™ for WinCE will start the PAN GN service automatically, then just waiting other Bluetooth devices to connect the Pocket PC with the PAN service.

6.2.2 Disconnect the PAN connection

You can disconnect the connection in two ways.

Method 1: Double click the PAN shortcut, and click **Disconnect** on the pop-up menu. (Figure 6.21)

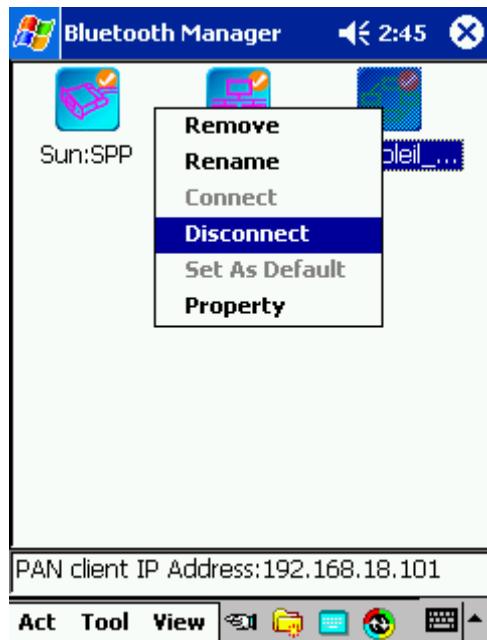


Figure 6.21 Disconnect from Pop-up Menu

- ◆ Method 2: In the Status window, select the PAN outgoing connection, and click the **Disconnect** button. (Figure 6.22)

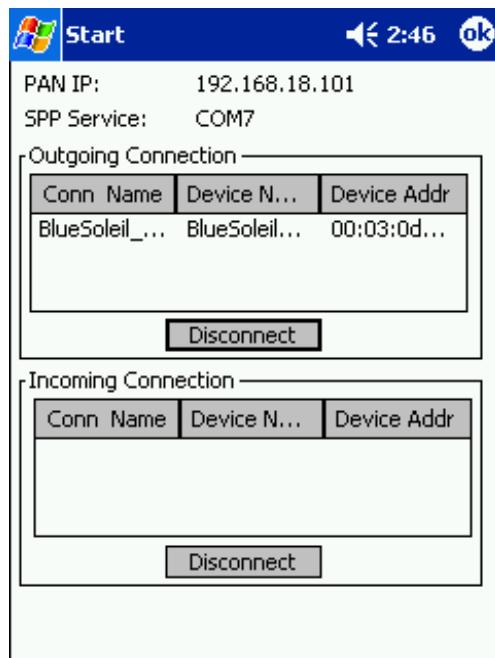


Figure 6.22 Disconnect from Status Window

6.2.3 Use the PAN Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double-click the particular shortcut icon (represented by the

Connection Name) and click **connect** on the pop-up menu to re-establish the connection.

6.3 Dial-up to Internet

The Dial-Up Networking (DUN) application model can be seen as a client/ server structure. BlueSoleil™ for WinCE can act as both the DUN server (Gateway) and the DUN client (Data Terminal).

6.3.1 Set up a new DUN connection

BlueSoleil™ for WinCE as a DUN Client

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the DUN connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found. The steps of adding device is described in chapter 6.1.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use DUN service. (Figure 6.23)

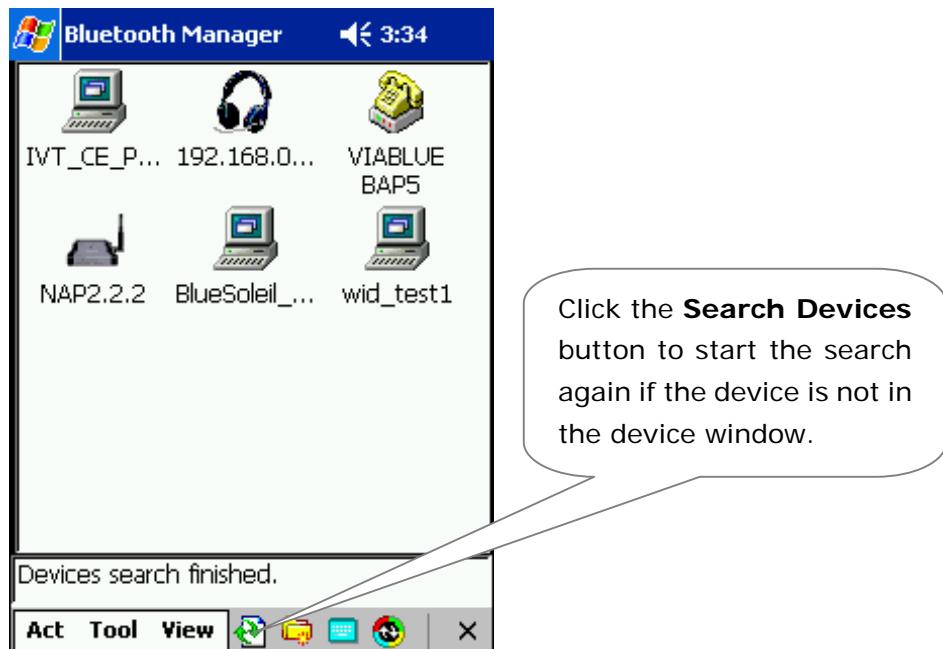


Figure 6.23 Browse Devices

Step 2: Search for Services.

Double-click the device (T39) with which you want to establish a DUN connection to browse its available services. (Figure 6.24)



Figure 6.24 Browse Services

The application may ask you to input a passkey if the devices have not already been paired. Input the correct Passkey and press **OK** to continue the connection. (Figure 6.25)

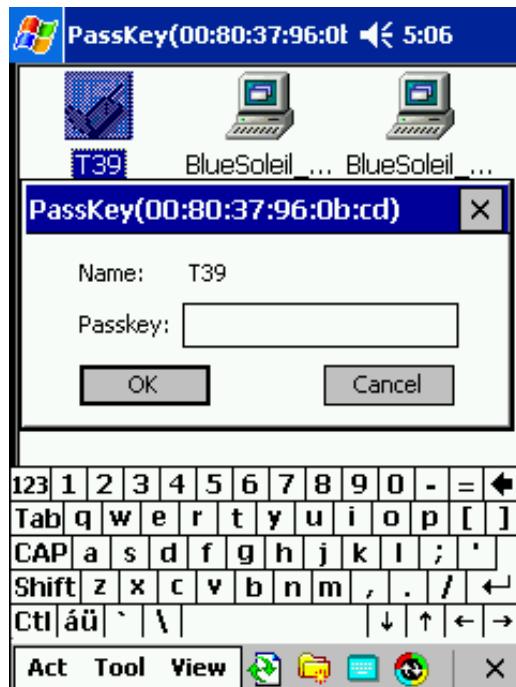


Figure 6.25 Input Passkey

Once the service search is complete, the found service icons are highlighted. (Figure 6.26)

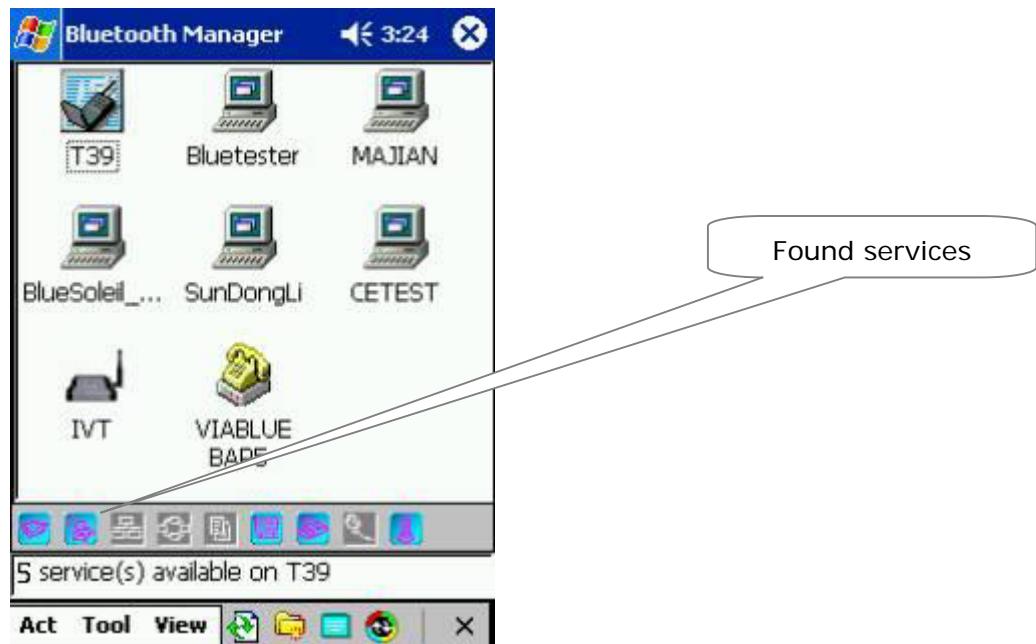


Figure 6.26 Found Services

Step 3: Connect to the DUN server.

Click the DUN service icon. A dialog window requesting a username and password appears. (Figure 6.27)

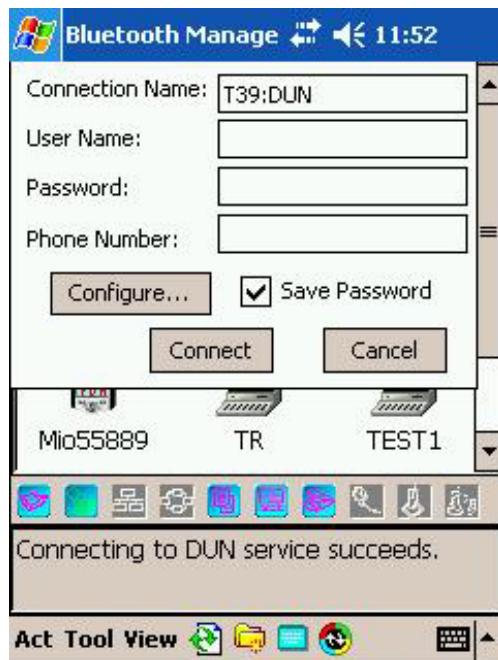


Figure 6.27 Connect to DUN Service

Input the correct username and password and also input the phone number information.

Note: sometimes user need to input extra dial-string modem commands. In the case of using GPRS service through Nokia 3650,Nokia 6600 which acts as DUN server. Please click **configure** first, then choose call options tab, then input extra dial-string modem commands. Please require the details of it from your ISP. (With China Telecom company , the dial-string command is **+cgdcnt=1,"ip","cmnet","","0,0** (Figure 6.28)

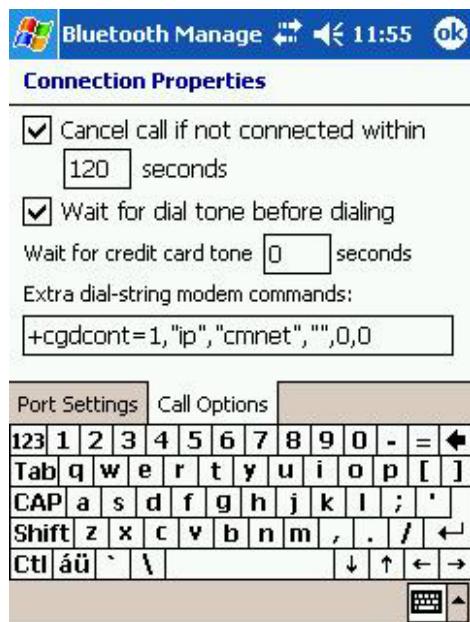


Figure 6.28 Configure DUN connection

If you tick the **save password** checkbox, you will not have to input the password the next time you connect. To continue, click the **Connect** button. (Figure 6.29)



Figure 6.29 Dialing up

If the connection is successfully established, the Device window is switched to the Shortcuts window and a corresponding shortcut is created. At the same time, It will show the explorer for you to visit Internet. (Figure 6.30)



Figure 6.30 DUN Connection Created

Step 3: Application

Now you can access any resource of Internet. For example, you can run Internet Explorer to access a website. (Figure 6.31)



Figure 6.31 DUN Application

BlueSoleil™ for WinCE as a DUN Server

If you want the Pocket PC to act as a DUN Gateway (server), firstly a modem should be connected to the Pocket PC, then you need to make the configuration correctly as Section 5.3. The BlueSoleil™ for WinCE will start the DUN gateway service automatically, then just waiting other Bluetooth devices to connect the Pocket PC with the DUN service.

6.3.2 Disconnect the DUN Connection

You can disconnect the connection in two ways.

Method 1: Double click the DUN shortcut, and click **Disconnect** on the pop-up menu. (Figure 6.32)

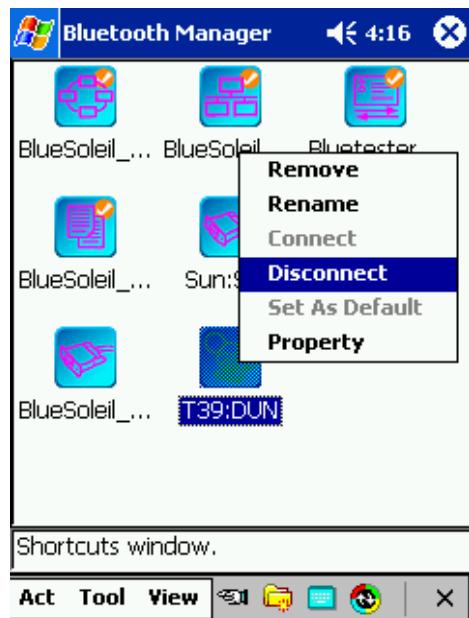


Figure 6.32 Disconnect from Pop up Menu

Method 2: In the Status window, select the DUN outgoing connection, and then click the **Disconnect** button. (Figure 6.33)

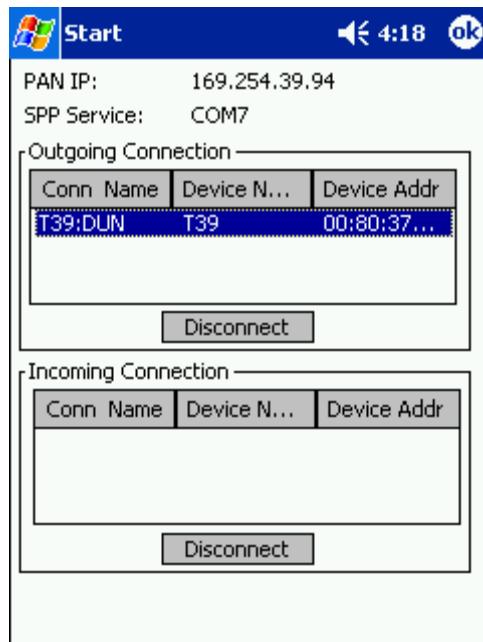


Figure 6.33 Disconnect from Status Window

6.3.3 Use the DUN Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double click the particular shortcut icon (represented by the Connection Name) and click **connect** on the pop-up menu to re-establish the connection.

6.4 Serial Port Profile

The Serial Port Profile (SPP) application model can be seen as a client/ server structure. BlueSoleil™ for WinCE can act as both the SPP server and the client.

6.4.1 Set up a new SPP connection

BlueSoleil™ for WinCE as a SPP Client

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the SPP connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found. The steps of adding device is described in chapter 6.1.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use SPP service. (Figure 6.34)

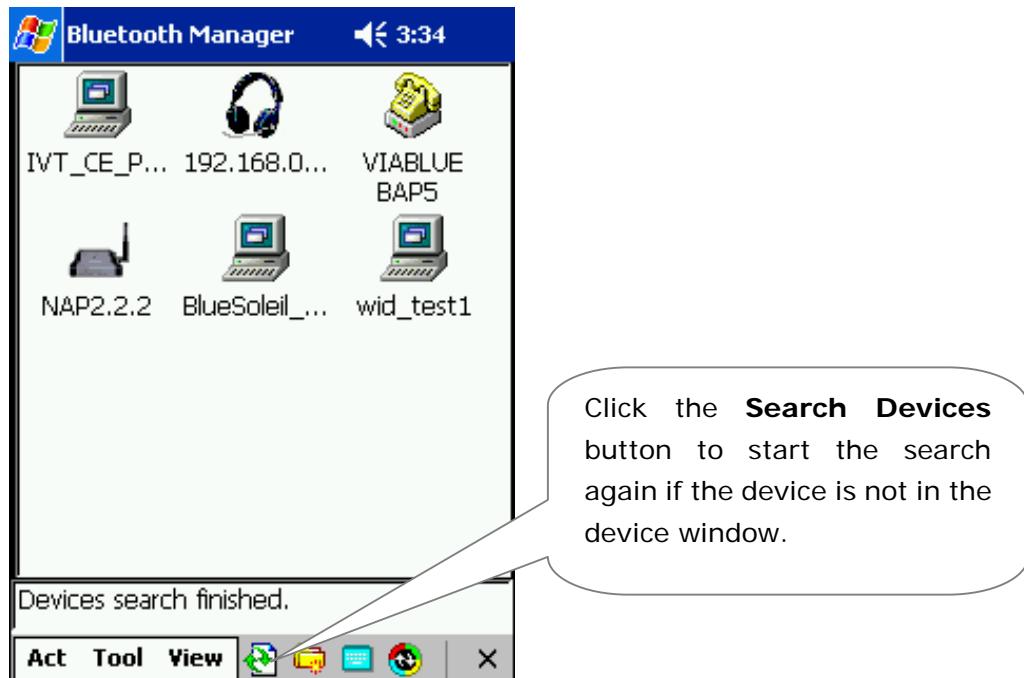


Figure 6.34 Browse Devices

Step 2: Browse Services.

Double click the device with which you want to establish a SPP connection to browse its available services. (Figure 6.35)



Figure 6.35 Browse Services

The application may ask you to exchange a passkey if the devices have not already been paired. Input the correct passkey and press **OK** to continue the connection. (Figure 6.36)

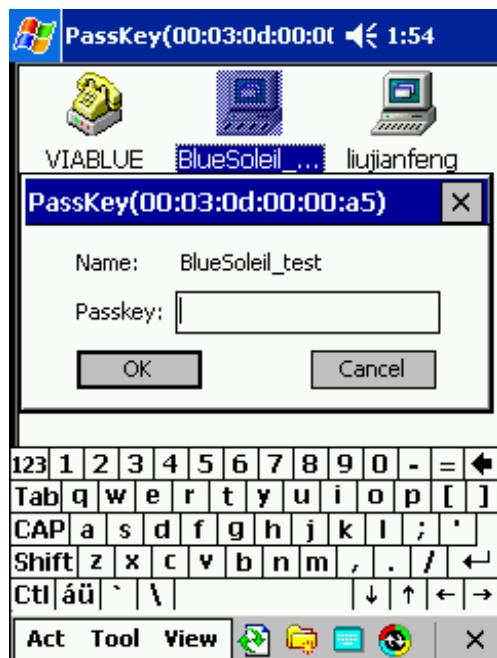


Figure 6.36 Input Passkey

Once the service search is complete, the found service icons are highlighted. (Figure 6.37)

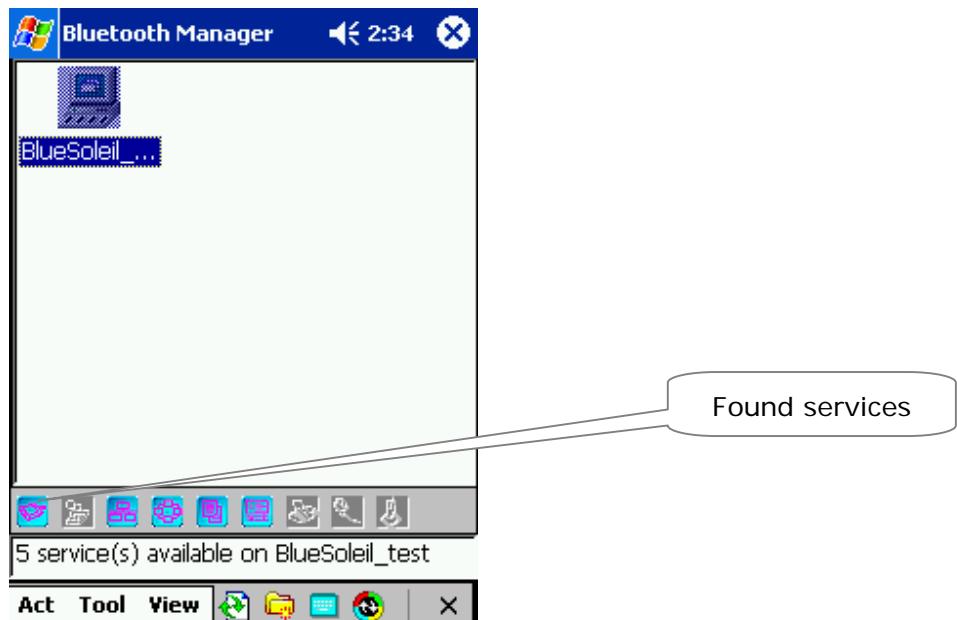


Figure 6.37 Found Services

Step 3: Connect to SPP server.

Click the SPP service icon to connect to the SPP server. (Figure 6.38)



Figure 6.38 Connect to SPP

Once the connection is successfully established, a SPP shortcut appears in the Shortcut window. (Figure 6.39)



Figure 6.39 SPP Connection

Information will appear in the Information Window to hint you if you want to start ActiveSync, Please click the ActiveSync icon.(Figure 6.40)

Step 4: Application

Now you can use the SPP connection. For example, you can create a

Bluetooth ActiveSync connection with PC (server) based on this SPP connection.

On the PC side, first create an ActiveSync partnership using a serial or USB connection. Then select the COM port server uses. (refer to Appendix 7.2).

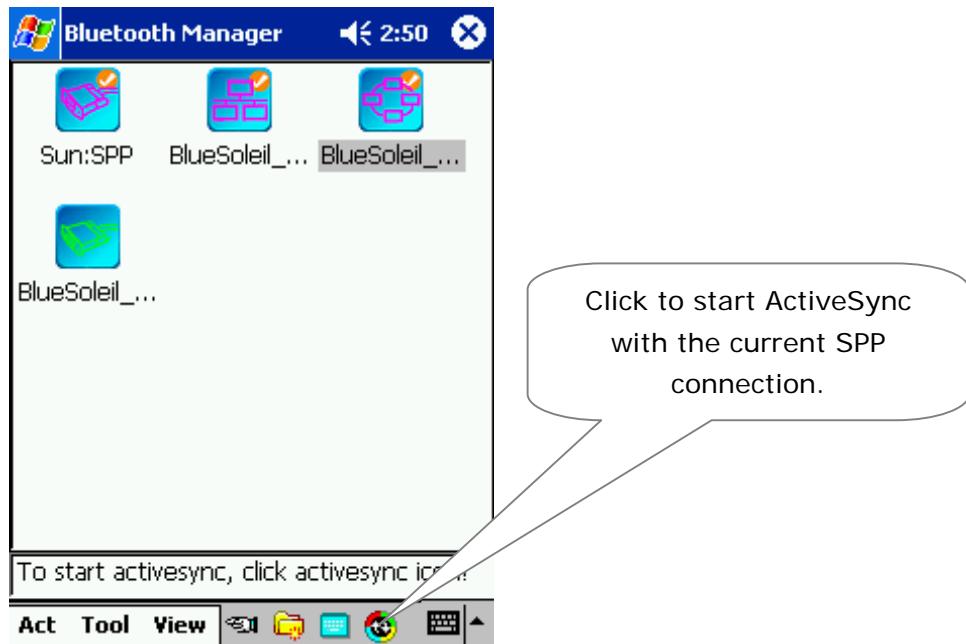


Figure 6.40 Run ActiveSync with SPP

BlueSoleil™ for WinCE as a SPP Server

If you want the Pocket PC to act as a SPP server, no configuration is needed. The BlueSoleil™ for WinCE will start the SPP server service automatically, then just waiting other Bluetooth devices to connect the Pocket PC with the SPP service.

6.4.2 Disconnect the SPP Application

We provides two methods for the SPP application to disconnect SPP connection.

You can disconnect the connection in two ways.

Method 1: Double click the SPP shortcut, and click **Disconnect** on the pop-up menu. (Figure 6.41)

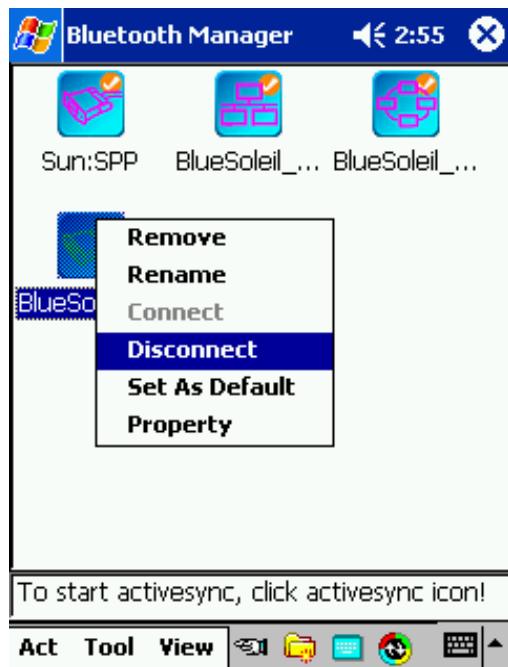


Figure 6.41 Disconnect from the Pop-up Menu

Method 2: In the Status window, select the SPP outgoing connection and click the **Disconnect** button. (Figure 6.42)

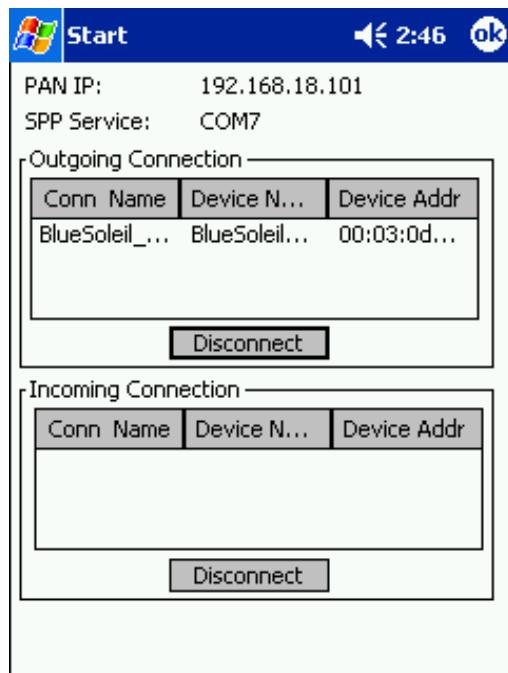


Figure 6.42 Disconnect from the Status Window

Note: To a Bluetooth ActiveSync connection based on this SPP connection, we advice that you shouldn't disconnect SPP connection in the Connection Settings

window of Microsoft's ActiveSync, otherwise the Pocket PC will takes a few minutes to be disconnected. (Figure 6.43)



Figure 6.43 Disconnect SPP connection in Microsoft's ActiveSync

6.4.3 Use the SPP Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double click the particular shortcut icon (represented by the Connection Name) and click **connect** on the pop-up menu to re-establish the connection.

6.5 File Transfer Profile

The File Transfer (FTP) application model can be seen as a client/ server structure. BlueSoleil™ for WinCE can act as both the FTP server and the FTP client.

6.5.1 Set up a new FTP connection

BlueSoleil™ for WinCE as a FTP Client

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the FTP connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device

and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found. The steps of adding device is described in chapter 6.1.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use FTP service. (Figure 6.44)

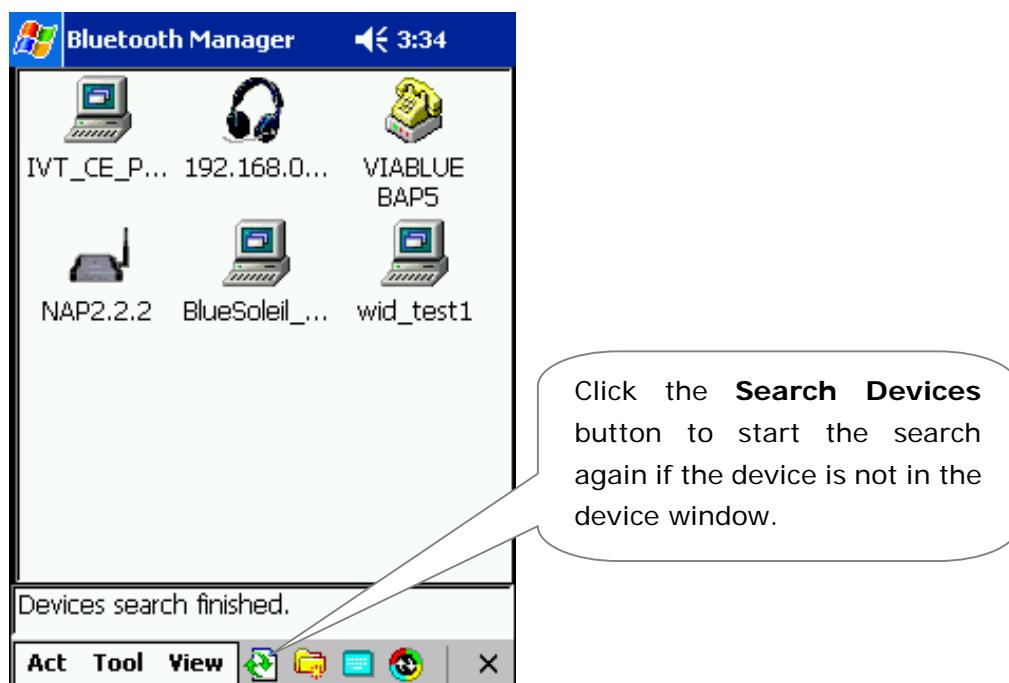


Figure 6.44 Browse Devices

Step 2: Browse services.

Double click the device with which you want to establish a FTP connection to browse its available services. (Figure 6.45)



Figure 6.45 Browse Services

The application may ask you to exchange a passkey if the devices have not already been paired. Input the correct passkey and press **OK** to continue the connection. (Figure 6.46)



Figure 6.46 Input Passkey

Once the service search is complete, the found service icons are highlighted. (Figure 6.47)

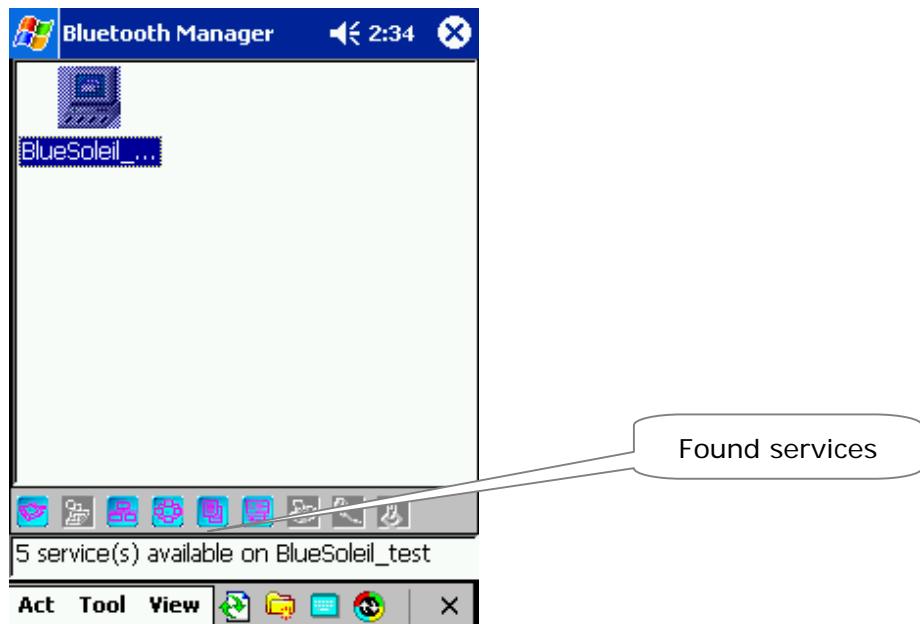


Figure 6.47 Found Services

Step 3: Connect to FTP server.

Click the FTP service icon to connect to the FTP server. (Figure 6.48)

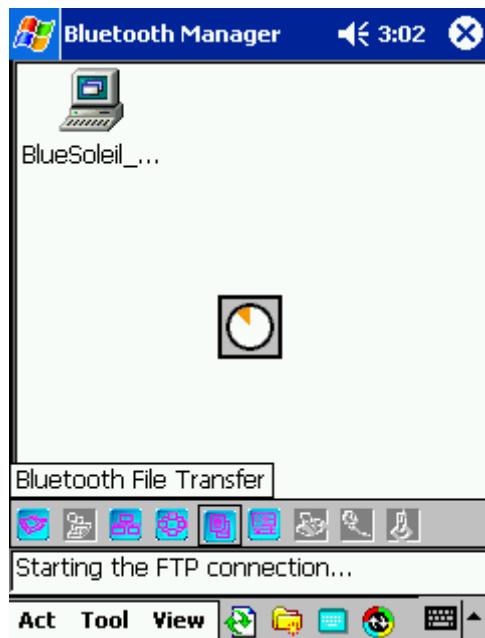


Figure 6.48 Connect to FTP Server

Once the connection is successfully established, a FTP shortcut appears in the Shortcut window. (Figure 6.49)

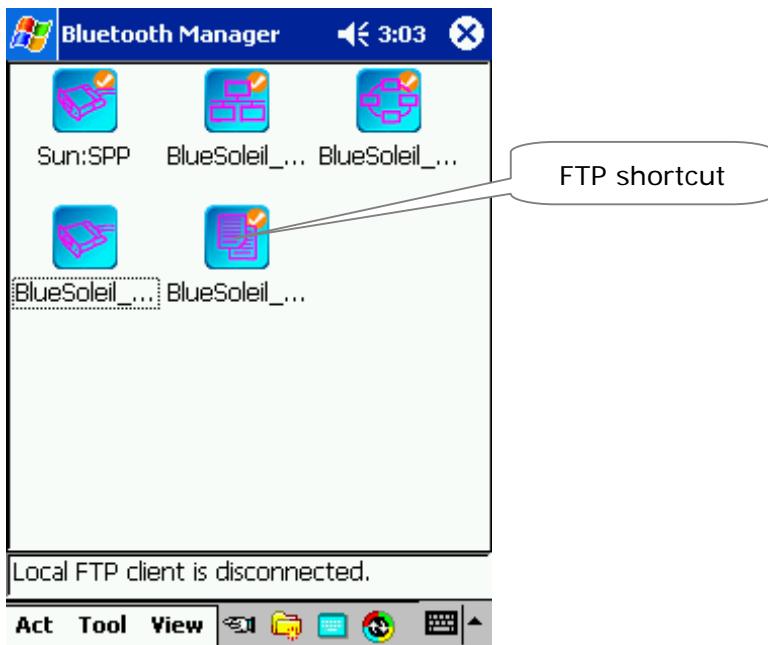


Figure 6.49 FTP Connection

And at the same time, it will show the FTP main operation window like this (Figure 6.50):

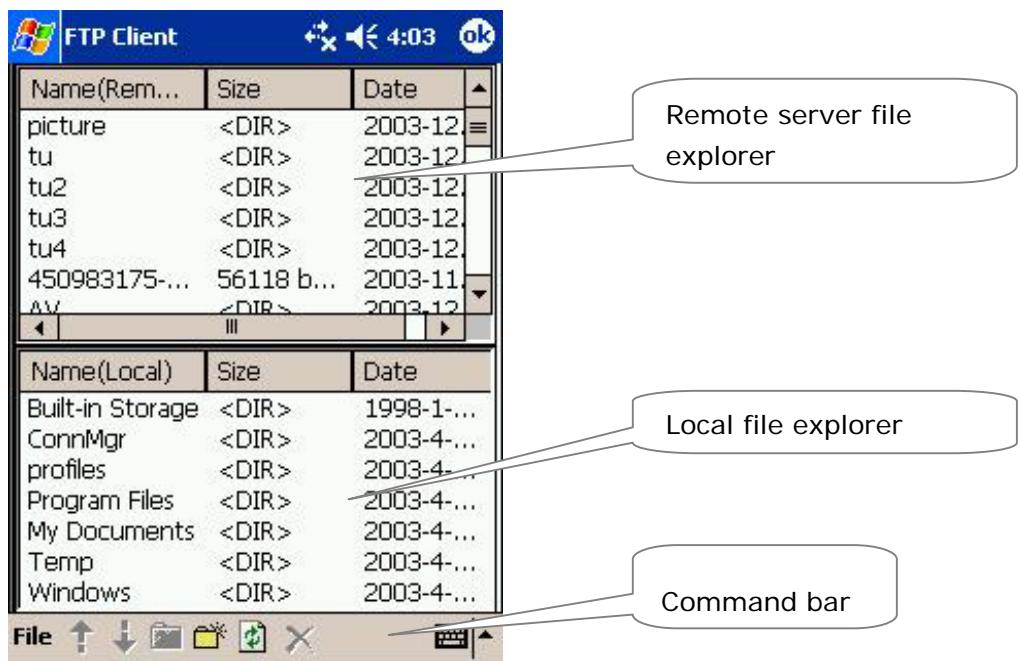


Figure 6.50 FTP operation interface

Step 4: Application – file transfer

At the operation window, you can upload files to the remote server and download files from the remote server to the local place. Also you can make new directory, delete files on the remote server.

You can complete these operations based on pop-up menu or the commands on the Command bar.

Using pop-up menu:

Select a file or folder and press it for about two seconds, a pop-up menu will appear. If the file or folder is on the remote server, the pop-up menu is like in Figure 6.51. If the file or folder is in local, the pop-up menu is like in Figure 6.52.

The pop-up menus provide the following options:

Download: Download files from the remote server.

Upload: Upload files from local to the remote server.

Up: Go to the parent directory.

Open: Open the directory. (You also can double click the folder to open it.)

New Folder: Make a new folder in the directory you select.

Delete: Delete the file or folder you select.

Refresh: Refresh the current folder.



Figure 6.51 Pop-menu of remote file/folder



Figure 6.52 Pop-menu of local file/folder

Using Command bar:

The commands represented by icons on the Command bar correspond to the options of the pop-up menus. The commands' function are: (from left to right) **Upload files**, **Download files**, **Up to parent directory**, **New folder**, **Refresh**, **Delete file or folder**.

Note: Before you use the command bar, you should select the corresponding window that you want to do operations.

Tip: Select one command's icon and press it for about two seconds, the hint information will appear to tell you what operation the command for.

BlueSoleil™ for WinCE as a FTP Server

If you want the Pocket PC to act as a FTP server, you need to make the configuration correctly as Section [5.5](#). The BlueSoleil™ for WinCE starts the FTP service automatically, then just waiting other Bluetooth devices to connect the Pocket PC with the FTP service.

6.5.2 Disconnect the FTP Application

Method1 : click the **Exit** Sub-item of the **File** menu. (Figure 6.53)

Method2: click the **OK** button at top right corner of the screen. (Figure 6.54)

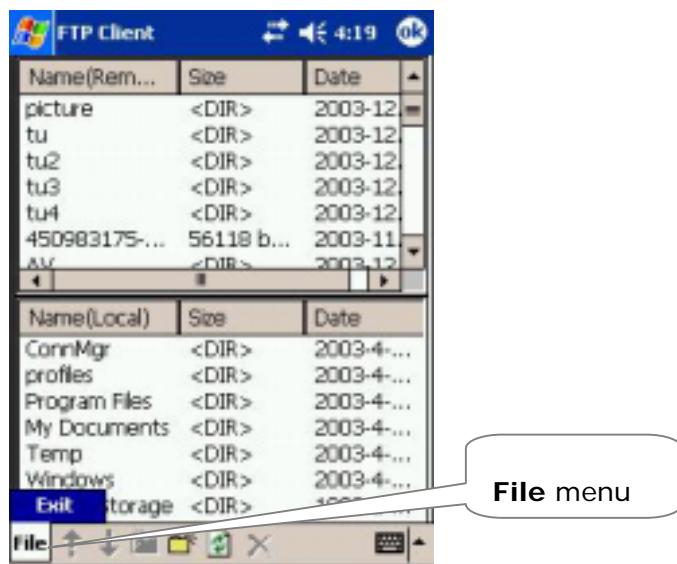


Figure 6.53 Disconnect FTP connection from the **File** menu

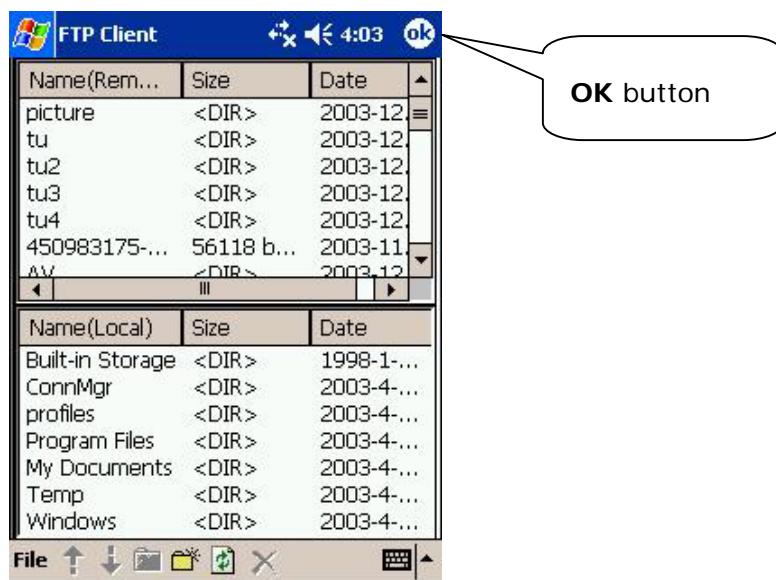


Figure 6.54 Disconnect FTP connection from the **Ok** button

6.5.3 Use the FTP Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double click the particular shortcut icon (represented by the Connection Name) and click connect on the pop-up menu to re-establish the connection.

6.6 Object Push Profile

The Object Push (OPP) application model can be seen as a client/ server structure. BlueSoleil™ for WinCE can act as both the OPP client and the OPP server.

6.6.1 Set up a new OPP Connection

BlueSoleil™ for WinCE as an OPP Client

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the OPP connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found. The steps of adding device is described in chapter 6.1.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use OPP service. (Figure 6.55)

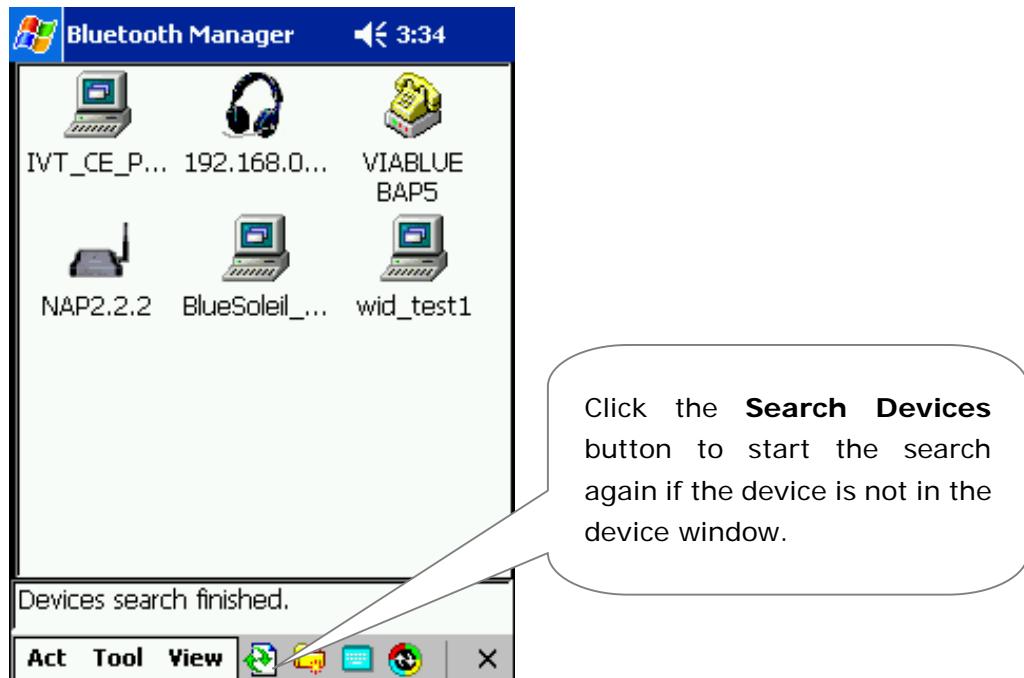


Figure 6.55 Browse Devices

Step 2: Browse services.

Double click the device with which you want to establish an OPP connection to browse its available services. (Figure 6.56)



Figure 6.56 Browse Services

The application may ask you to exchange a passkey if the devices have not already been paired. Input the correct passkey and press **OK** to continue the connection. (Figure 6.57)



Figure 6.57 Input Passkey

Once the service search is complete, the found service icons are highlighted. (Figure 6.58)

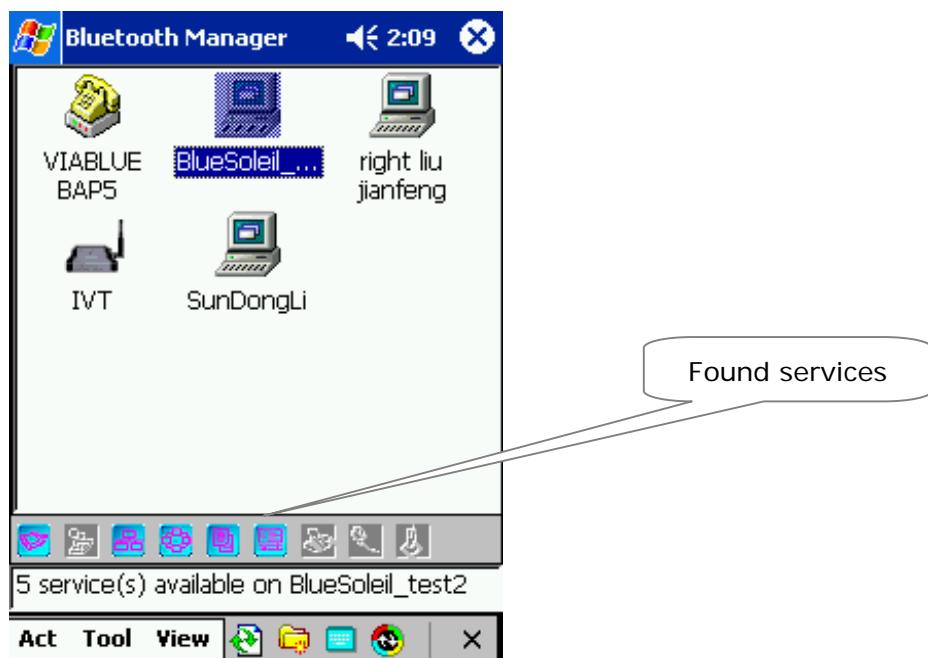


Figure 6.58 Found Services

Step 3: Connect to OPP server.

Click the OPP service icon to connect to the OPP server. (Figure 6.59)

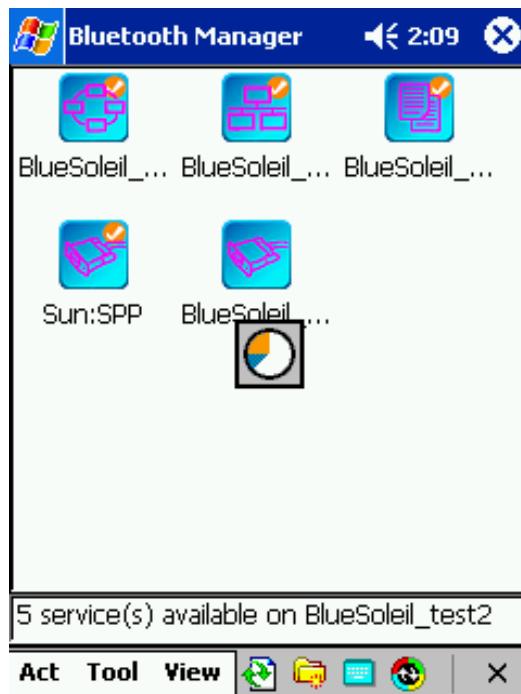


Figure 6.59 Connect to OPP Server

Once the connection is successfully established, an OPP shortcut appears in the Shortcut window and the OPP operation window appears. (Figure 6.60)

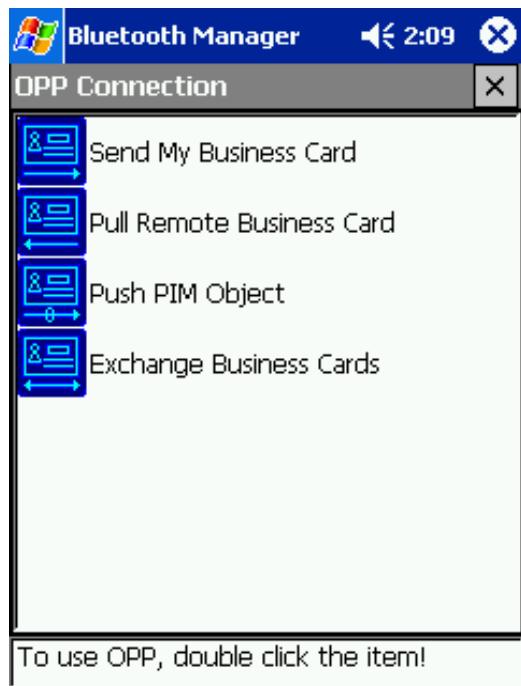


Figure 6.60 OPP Operation Window

Step 4: Application

In the OPP Operation Window,

Double click the **Send My Business Card** item to send the default business card set in the OPP configuration window.

Double click the **Pull Remote Business Card** item to pull the default business card of the remote OPP server. The received business card is stored in Pocket PC Contacts.

Double click the **Push PIM Object** item to send PIM Object. Select a PIM object in the popup dialog to send it to the remote OPP server.

Double click the **Exchange Business Cards** item to exchange the default business cards with the remote OPP server. The received business card is stored in Pocket PC Contacts.

And you also can use Pocket PC Contacts to push contact items to remote server through the OPP connection (Figure 6.61).

In Pocket PC Contacts program, select one or more contact items. Click the **Tools|Send by BlueSoleil** item or click the **Send by BlueSoleil** item in the popup menu to send the selected item via the Bluetooth OPP connection.

Note: In the case of you do a object push action with some certain devices(for example, Nokia mobile phones), the OPP connection is disconnected by Nokia mobile phone, after a object push action has been done successfully. So you should re-establish the OPP connection again, if you still want to do object push action.

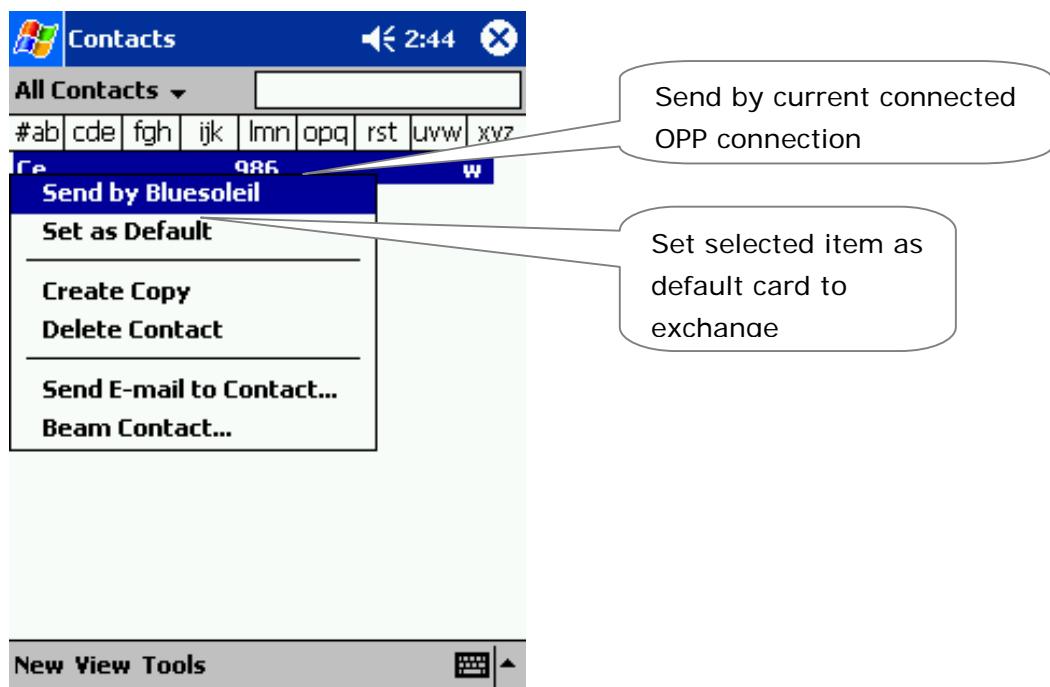


Figure 6.61 Run Pocket PC Contacts with OPP connection

BlueSoleil™ for WinCE as a OPP Server

If you want the Pocket PC to act as an OPP server, you need to make the configuration correctly as Section [5.6](#). The BlueSoleil™ for WinCE starts the OPP

service automatically, then just waiting other Bluetooth devices to connect the Pocket PC with the OPP service.

Note: Before acting as a OPP server, please make sure that you have already set a contact as default in the Pocket PC Contacts program, otherwise the exiting incoming OPP connection will be disconnected automatically when you do setting a contact as default.

6.6.2 Disconnect the OPP Application

You can disconnect the connection by closing the OPP operation Window. (Figure 6.62)

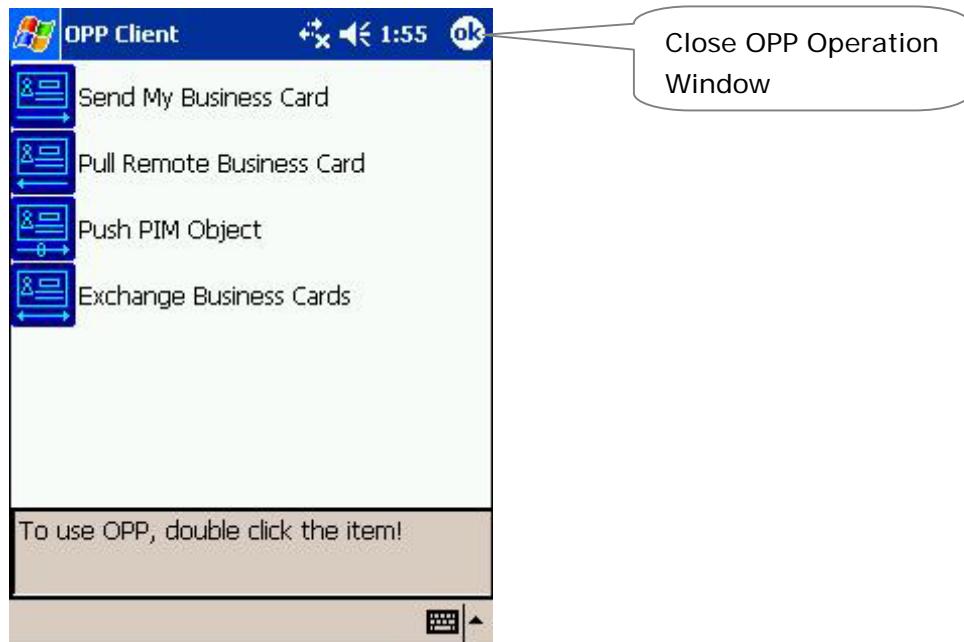


Figure 6.62 Close OPP Operation Window

6.6.3 Use the OPP Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double click the particular shortcut icon (represented by the Connection Name) and click **connect** on the pop-up menu to re-establish the connection.

Recommend: To send Contacts items to the default OPP shortcut server, just select Contacts items in Contacts program and click the **Tools| Send by BlueSoleil** item or click the **Send by BlueSoleil** item in the popup menu.

6.7 Bluetooth Fax Profile

The Fax application model can be seen as a client/ server structure. BlueSoleil™ for WinCE can act as both the FAX client and the FAX server.

6.7.1 Set up a new Fax connection

BlueSoleil™ for WinCE as a Fax Client

Step 1: Browse devices.

Click the **Search Devices** button to search for the device nearby, double click the device with which you want to establish the Fax connection.

Note: In the remote devices list, if the device with which you want to connect is not shown in the remote devices list, please check that whether the device is power on, the distance between your device and remote device is less than 10 meters and the Bluetooth program is running on the device, then click the **Search Devices** button to search for devices nearby again.

If the device still is not shown in the device list, please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. You can manually add the device in the device list, if the device still is not found. The steps of adding device is described in chapter 6.1.

If the device's name is "Unknown", please check that whether the device connect to other devices. If the connection with other device(s) exists, first disconnect the connections with other device(s), then click the **Search Devices** button to search for devices nearby again. Occasionally, you cannot get the remote device's name though you have done searching for the device many times, you can ignore it, and go on the following steps to use Fax service. (Figure 6.63)

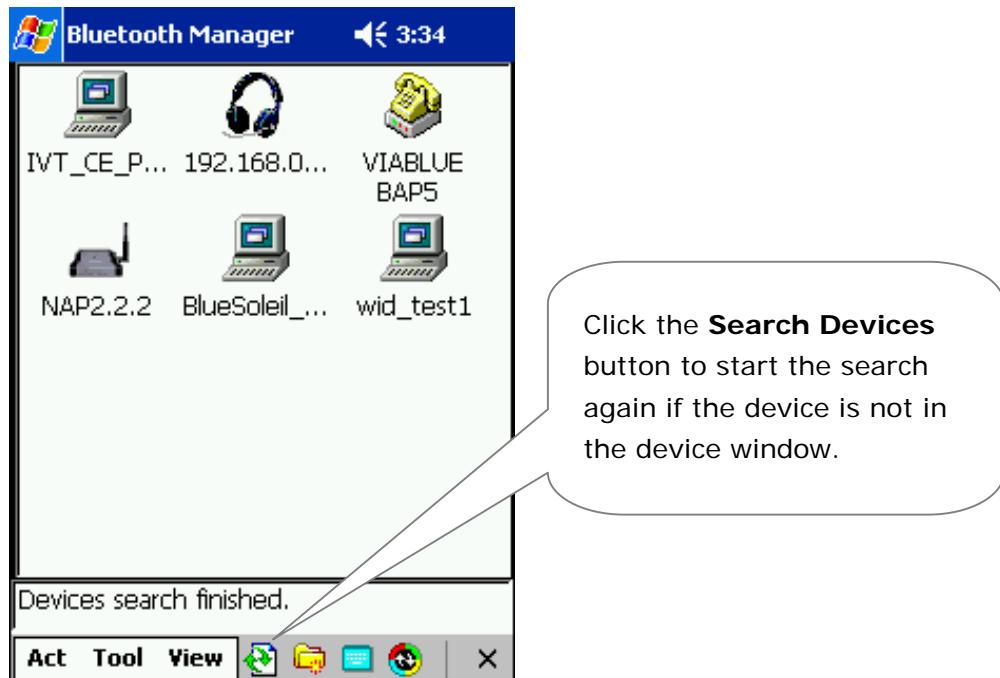


Figure 6.63 Browse Devices

Step 2: Browse Services.

Double click the device with which you want to establish an Fax connection to browse its available services. (Figure 6.64)



Figure 6.64 Browse Services

The application may ask you to exchange a passkey if the devices have not already been paired. Input the correct passkey and press **OK** to continue the connection. (Figure 6.65)

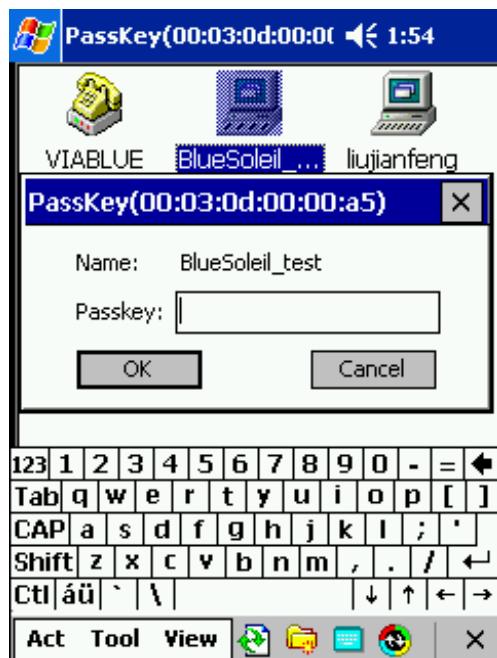


Figure 6.65 Input Passkey

Once the service search is complete, the found service icons are highlighted. (Figure 6.66)

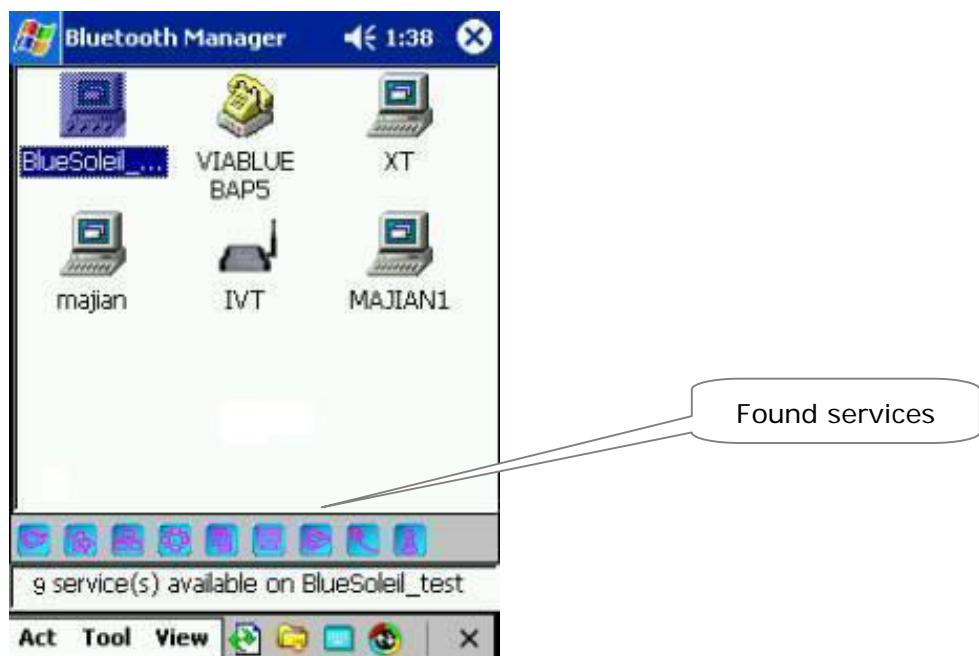


Figure 6.66 Found Services

Step 3: Connect to Fax server.

Click the Fax service icon to connect to the Fax server. (Figure 6.67)



Figure 6.67 Connect to Fax Server

Once the connection is successfully established, a Fax shortcut appears in the Shortcut window. (Figure 6.68)

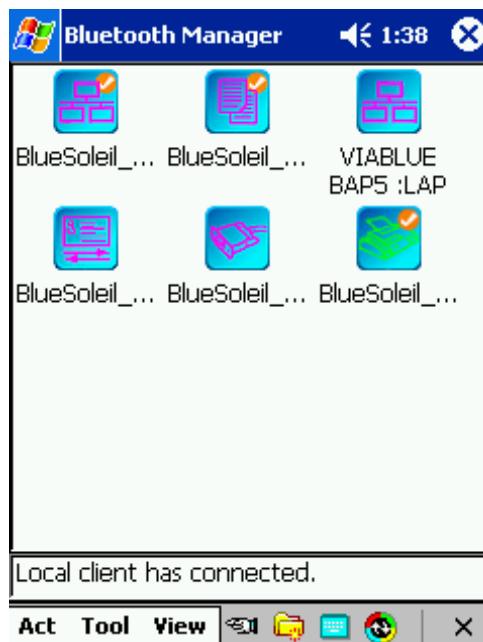


Figure 6.68 Fax Connection

Step 4: Application

Now you can use the FAX service. For example, you can run the software named "KSE Truefax for Windows CE" produced by KSE Software to send fax based on the Bluetooth FAX connection. You can get the software from www.ksesoftware.com.

Note: at present you can only send FAX, but cannot receive the FAX.

BlueSoleil™ for WinCE as a Fax Server

If you want the Pocket PC to act as a Fax server, firstly a modem should be connected to the Pocket PC, then you need to make the configuration correctly as Section [5.4](#). The BlueSoleil™ for WinCE will start the FAX service automatically, then just waiting other Bluetooth devices to connect the Pocket PC with the FAX service.

6.7.2 Disconnect the Fax Connection

You can disconnect the connection in two ways.

Method 1: Double click the Fax shortcut, and click **Disconnect** on the pop-up menu. (Figure 6.69)

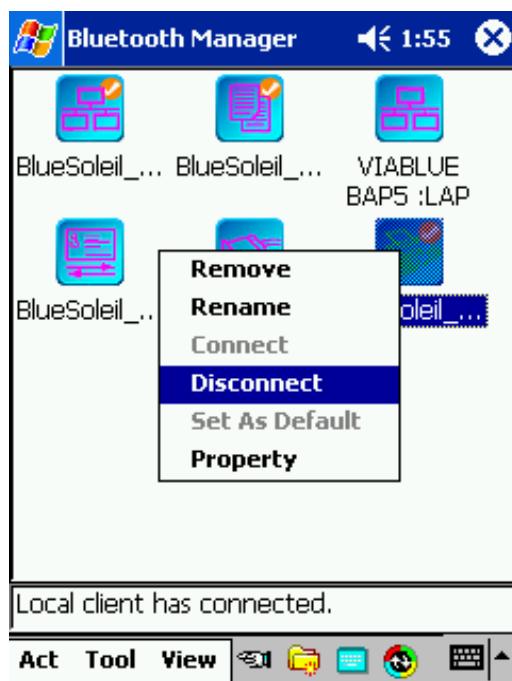


Figure 6.69 Disconnect from the Pop-up Menu

Method 2: In the Status window, select the Fax outgoing connection and click the **Disconnect** button. (Figure 6.70)

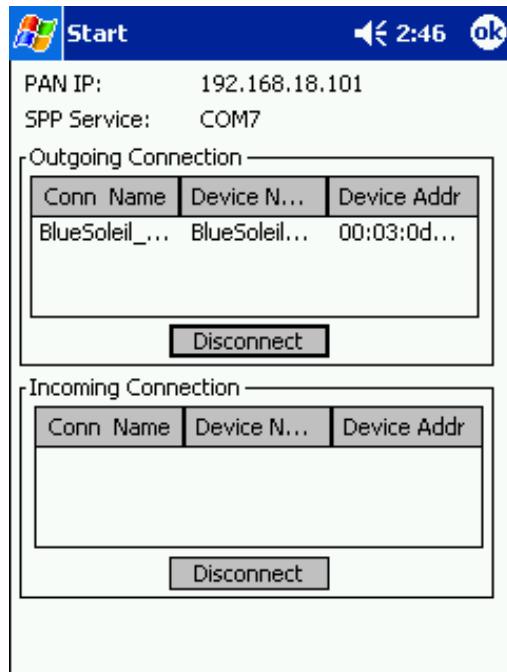


Figure 6.70 Disconnect from the Status Window

6.7.3 Use the Fax Shortcut

Once a new connection is successfully established, a shortcut for the connection is generated. Double click the particular shortcut icon (represented by the Connection Name) and click **connect** on the pop-up menu to re-establish the connection.

7 Appendix

7.1 List of Images

Image	Description
	Start ActiveSync
	Back to Devices Window
	Status Window
	Search Devices
	Service: Connected Bluetooth Serial Port
	Service: Connected Bluetooth Dial-up Networking
	Service: Connected Bluetooth LAN Access
	Service: Connected Personal Area Networking
	Service: Connected File Transfer
	Service: Connected Bluetooth Object Push
	Service: Connected Fax
	Service: Connected Bluetooth Headset
	Service: Connected Bluetooth Audio Gate
	Service: Connected Bluetooth Information Synchronization
	Service: Bluetooth Serial Port
	Service: Bluetooth Dial-up Networking
	Service: Bluetooth LAN Access
	Service: Bluetooth Personal Area Networking
	Service: Bluetooth File Transfer
	Service: Bluetooth Information Synchronization
	Service: Bluetooth Fax
	Service: Bluetooth Headset
	Service: Bluetooth Audio Gate
	Service: Bluetooth Information Synchronization
	Shortcut Window

	Stop Searching devices
	Device: Headset
	Device: Unknown Device
	Device: Modem
	Device: Notebook PC
	Device: PC
	Device: Pocket PC
	Device: Handset
	Device: Network Access Point
	Notify Icon
	Shortcut: Bluetooth Serial Port
	Shortcut: Bluetooth Dial-up Networking
	Shortcut: Bluetooth LAN Access
	Shortcut: Bluetooth Personal Area Networking
	Shortcut: Bluetooth File Transfer
	Shortcut: Bluetooth Object Push
	Shortcut: Bluetooth Fax
	Shortcut: Bluetooth Headset
	Shortcut: Bluetooth Audio Gate
	Shortcut: Bluetooth Information Synchronization
	Shortcut: Connected Bluetooth Serial Port
	Shortcut: Connected Bluetooth Dial-up Networking

	Shortcut: Connected Bluetooth LAN Access
	Shortcut: Connected Bluetooth Personal Area Networking
	Shortcut: Connected Bluetooth File Transfer
	Shortcut: Connected Bluetooth Object Push
	Shortcut: Connected Bluetooth Fax
	Shortcut: Connected Bluetooth Fax
	Shortcut: Connected Bluetooth Fax
	Shortcut: Connected Bluetooth Information Synchronization
	Shortcut: Default Bluetooth Serial Port
	Shortcut: Default Bluetooth Dial-up Networking
	Shortcut: Default Bluetooth LAN Access
	Shortcut: Default Bluetooth Personal Area Networking
	Shortcut: Default Bluetooth File Transfer
	Shortcut: Default Bluetooth Object Push
	Shortcut: Default Bluetooth Fax
	Shortcut: Default Bluetooth Headset
	Shortcut: Default Bluetooth Audio Gate
	Shortcut: Default Bluetooth Information Synchronization
	Shortcut: Default & Connected Bluetooth Serial Port
	Shortcut: Default & Connected Bluetooth Dial-up Networking
	Shortcut: Default & Connected Bluetooth LAN Access
	Shortcut: Default & Connected Bluetooth Personal Area Networking

	Shortcut: Default & Connected Bluetooth File Transfer
	Shortcut: Default & Connected Bluetooth Object Push
	Shortcut: Default & Connected Bluetooth Fax
	Shortcut: Default & Connected Bluetooth Headset
	Shortcut: Default & Connected Bluetooth Audio Gate
	Shortcut: Default & Connected Bluetooth Information Synchronization

7.2 ActiveSync Configuration

It is possible to connect to and automatically update information on a Bluetooth device that has been designated as an ActiveSync partner. To perform an ActiveSync session, set up the host computer, then create the wireless connection.

7.2.1 Configure ActiveSync parameters on the PC side

It is only possible to use a laptop or desktop computer as an ActiveSync partner. Configure as follows:

- ◆ Create an ActiveSync partnership using a serial or USB connection. See the Pocket PC User Manual for directions.
- ◆ The host PC determines which COM port is configured for local serial services.
- ◆ Open ActiveSync on the host computer.
- ◆ Select **File | Connection Settings**
- ◆ Configure the host PC to monitor the COM port identified. Uncheck the statement related to USB and Ethernet connections.

For example, if COM5 is the port used by a Bluetooth software on PC side, select COM5 at **File | Connection Settings** in order to make a connection (Figure 7.1).

If you can't activate ActiveSync, select **File | Connection Setting** and click the **Get Connected** button. Then select the correct COM port.

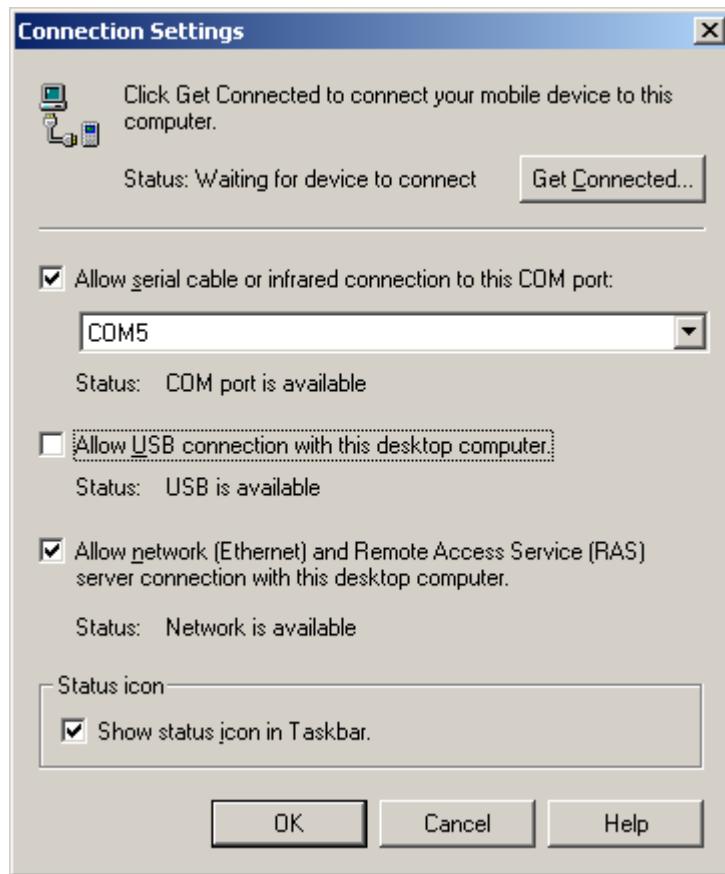


Figure 7.1 Determine the COM Port

7.2.2 Configure ActiveSync parameters on Pocket PC

BlueSoleil™ for WinCE automatically configures the ActiveSync parameters on the Pocket PC.