Bluetooth USB Dongle
(TPS-BT01)

USER'S GUIDE

Version: Rev 1.2

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Introduction

Thank you for purchasing the Horus Bluetooth Dongle. It is compatible with World-Wide Bluetooth 1.1 standard to communication and transfer date with other Bluetooth device. In order to exchange data, two Bluetooth devices must establish a connection. Before a connection is established, one device must request a connection with another. The second device accepts (or rejects) the connection. The originator of the request is the client. The device that accepts (or rejects) the request is known as the server. Horus Bluetooth Adapter can act as both client and server. A client Bluetooth device runs a software program that requests a connection to another device as part of its normal operation.

For example, the program may request a connection to a remote computer, a cellular phone, or a modem, or a GPS. Becoming a Bluetooth client normally requires an action by the device operator, such as an attempt to browse a remote computer, print a file, or dial out on a modem, or get date from GPS module. Every Bluetooth device that provides a service must be prepared to respond to a connection request. Bluetooth software is always running in the background on the server, ready to respond to connection requests. Before you starting, please read this User Guide carefully to understand how to setup and use this product properly.

Packing List

- ✓ Bluetooth USB Adapter x 1
  - ✧ Bluetooth™ software CD x 1 include
    - ◆ This User's Manual
    - ◆ Bluetooth windows software and driver
    - ◆ Quick Setup Guide x 1
  - ✧ Warranty Card x 1

If any of the above items are missing, please contact your reseller.

Chapter 1: Installation

To prevent potential problem during installing the software, please do not plug in any Bluetooth Device (i.e. USB Bluetooth Adapter) into the computer until the software finish installation. Once you load the Bluetooth Software, the software automatically removes any previous versions of Bluetooth software on your computer. To manually remove any previous Bluetooth software that exists on your system, the remove procedure is as follows:

1. Click **Start**/**Settings**, and then select **Control Panel**.

2. In the Control Panel window, double click **Add / Remove programs** icon.

3. Find out the item **IVT BlueSoleil** and then remove it by clicking the Remove button.

1.1 System Require

- ✓ Processor: Intel Celeron / Pentium III / Pentium 4; AMD Duron / Athlon
- ✓ Operating System: Microsoft Windows 98 SE / ME / 2000 / XP
- ✓ System memory: 32MB at least
- ✓ Hard Drive Free Space: 18MB
- ✓ One Available Standard USB 1.1 Port or higher
- ✓ Install Require: CDROM

1.2 Install Bluetooth software Windows 98/2000

1 Insert the Installation Software CD into CD-ROM drive. If the Auto-Run function of CD-ROM is disabled, you can utilize the Windows Explorer to browse CD content and run **Setup.exe** manually.

If the Auto-Run function of CD-ROM is enabled (Windows default setting of this function is usually enabled), then an installation procedure will appear automatically.

2 Select the Language you want to installation from the combo box, and then press the “OK” button to continue.

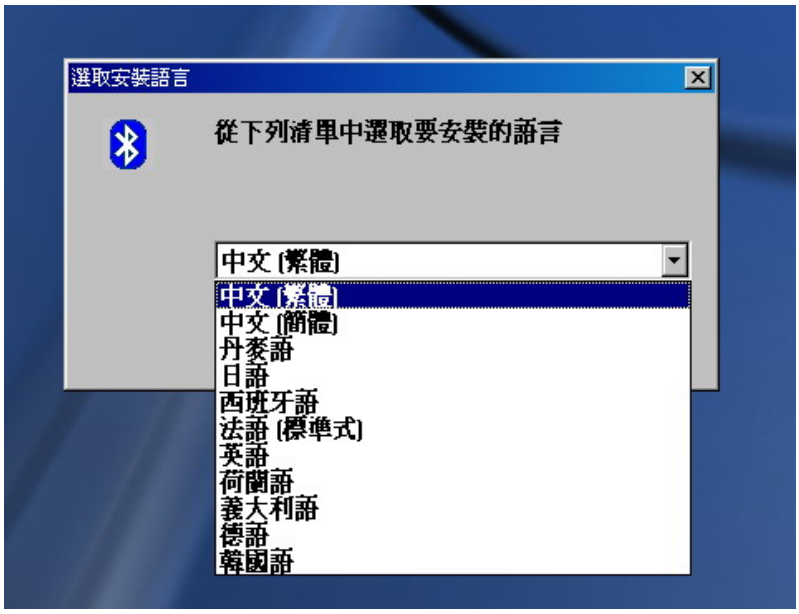

Figure 1-1: Select Install language

3 Please click *Next* button several times to continue the software installation. In the *License Agreement* window, please read license agreement carefully, then click “Yes” button to continue.

Figure 1-2: Installation.

Figure 1-3: License agreement.

4 Indicate the location of where you want Bluetooth Software to be stored; if you do not change the default settings, it will be stored under **C:\Program Files\IVT Corporation\IVT BlueSoleil** (Recommended). Click on *Next* button to continue. Or you can select your prefers location to install.

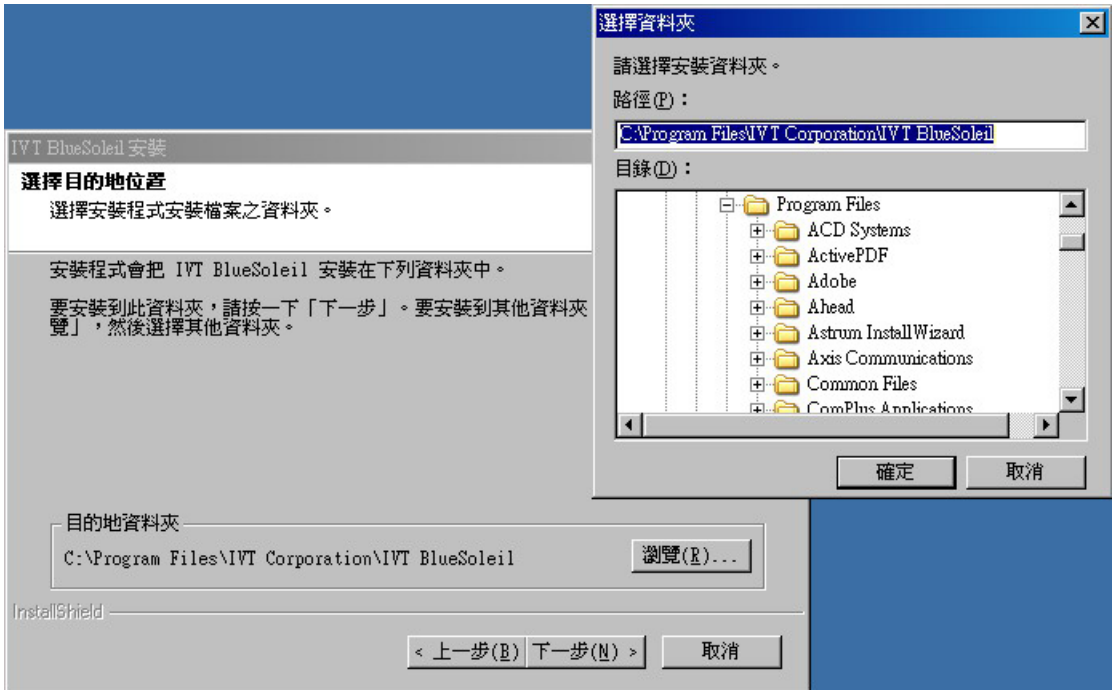

Figure 1-4: select Install path

5 The InstallShield Wizard will begin to install the software and copy files to your hard disk. After copy all the files, the installation will try to install virtual Bluetooth device in your system. It may take a few minutes, please wait it finishes the installation.

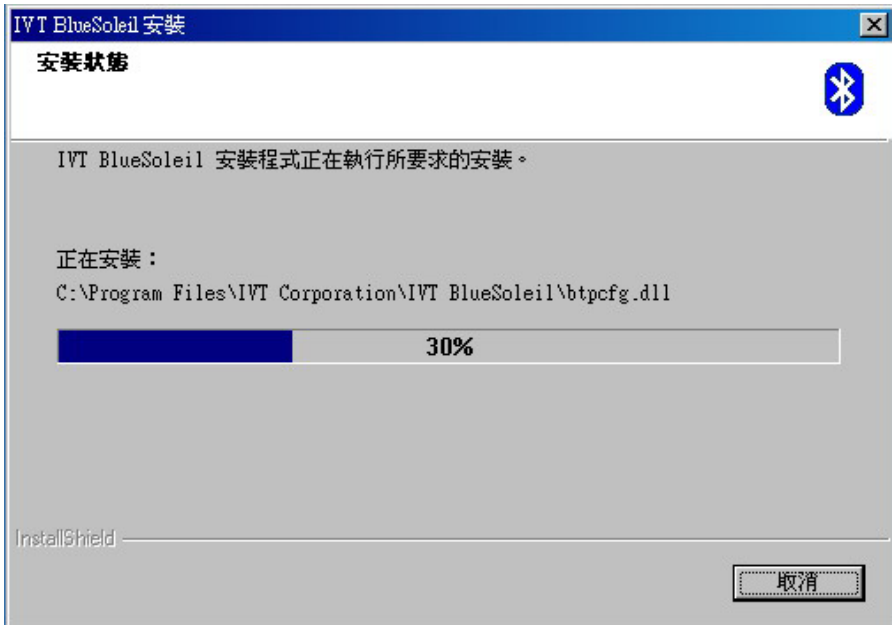

Figure 1-5: Copy files to your hard disk.

Figure 1-6: Install virtual BlueTooth devices in your system.

6 After finish installation, please select reboot your system to finish the installation. Or you can select to reboot later.

Figure 1-7: finish installation

7 There are two new Bluetooth icons appear on the desktop and the windows task

bar respectively when logged in Windows operating system. For more information on the BlueSoleil, please refer to Chapter 2.

Figure 1-8: BlueSoleil on the Desktop and the system tray

8 Now you can plug-in / install your USB Bluetooth Adapter into your computer.

1.3 Install Bluetooth software on Windows XP

1. Insert the Installation Software CD into CD-ROM drive. If the Auto-Run function of CD-ROM is disabled, you can utilize the Windows Explorer to browse CD content and run **Setup.exe** manually.
   If the Auto-Run function of CD-ROM is enabled (in Windows, the default setting of this function is usually enabled), then a CD menu will appear automatically.

2. Select the Language you want to installation from the combo box, and then press the “OK” button to continue.

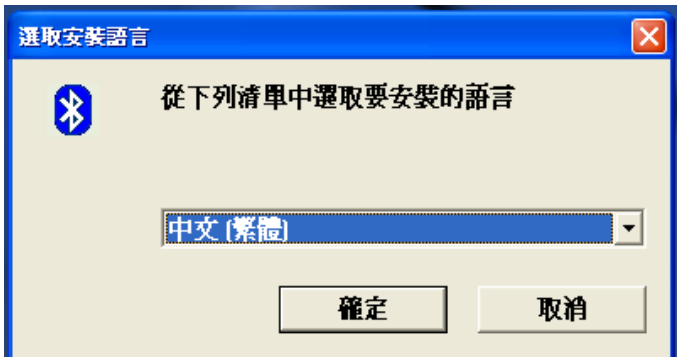

Figure 1-10: Select install language

3. Please click *Next* button several times to continue the software installation. In the *License Agreement* window, please read license agreement carefully, then click "Yes" button to continue.

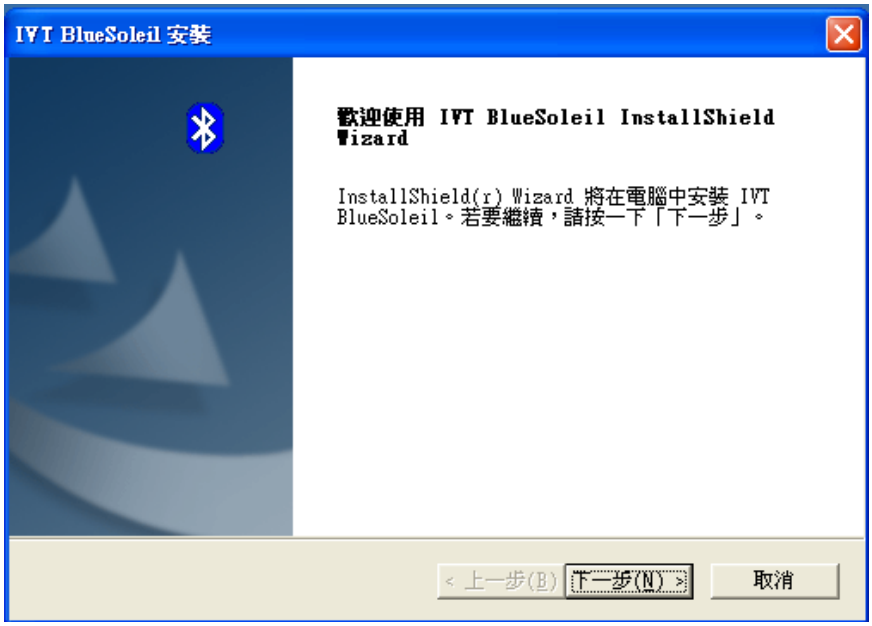

Figure 1-11: Installation Process.

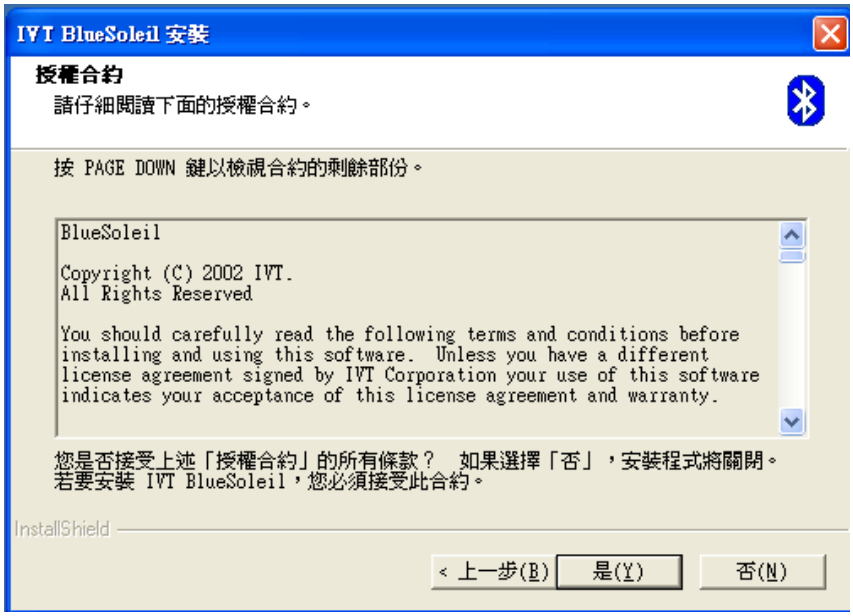

Figure 1-12: License agreement

4. Indicate the location of where you want Bluetooth Software to be stored; if you do not change the default settings, it will be stored under **C:\Program Files\IVT Corporation\IVT BlueSoleil** (Recommended). Click on *Next* button to continue. Or you can select your prefers location to install.

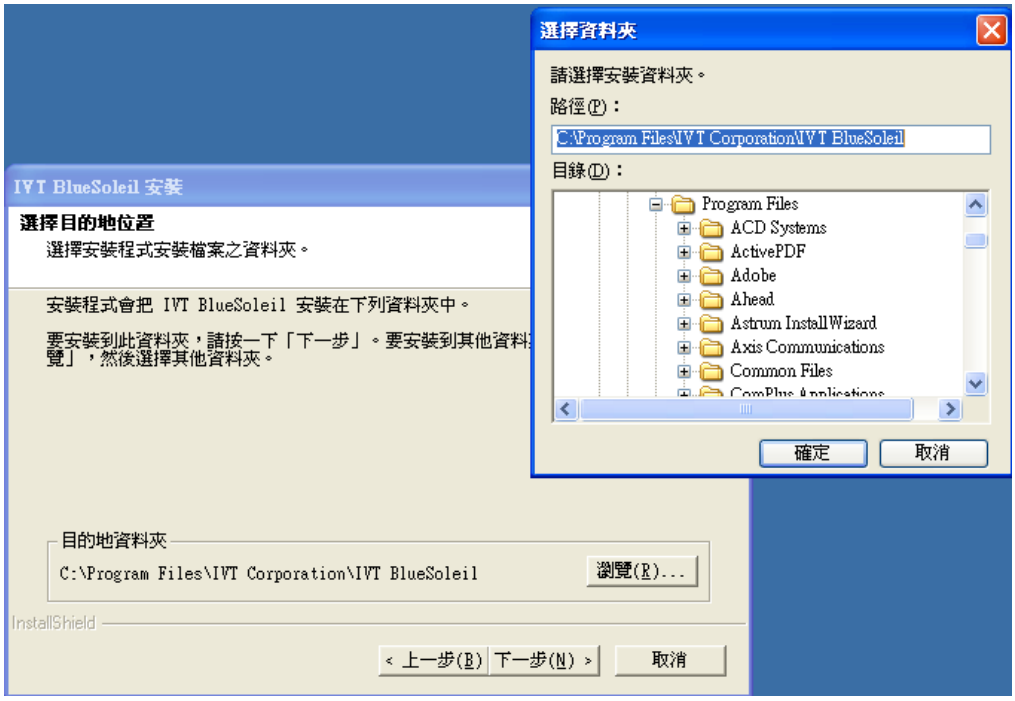

Figure 1-13: Select Bluetooth software install path

5. The InstallShield Wizard will begin to install the software and copy files to your hard disk. After copy all the files, the installation will try to install virtual Bluetooth device in your system. It may take a few minutes, please wait it finishes the installation.

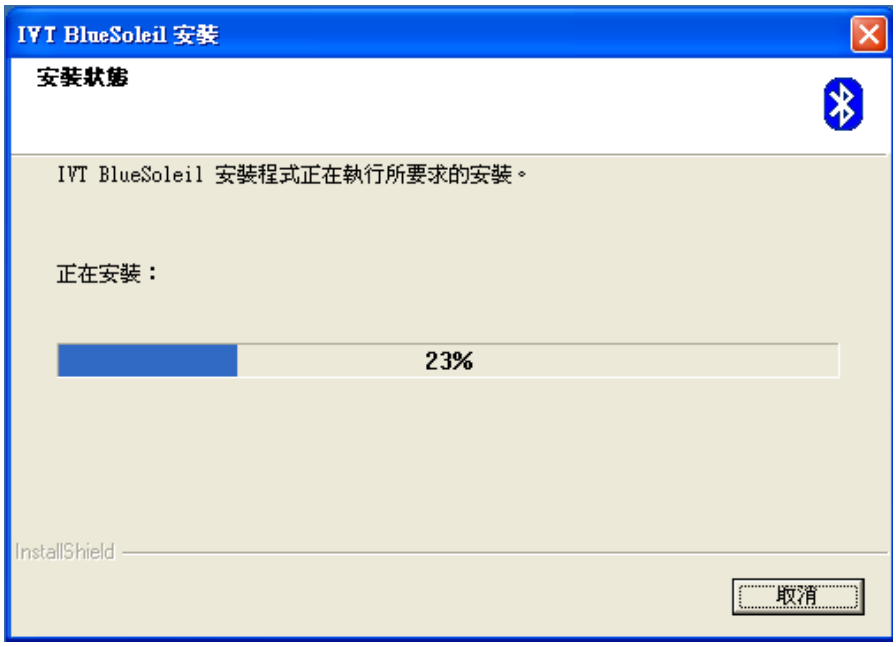

Figure 1-14: Copy files to your hard disk.

Figure 1-15: Install virtual BlueTooth devices in your system.

6. After finish installation, please select reboot your system to finish the installation. Or you can select to reboot later.

Figure 1-16: Finish installation.

7. There are two new Bluetooth icons appear on the desktop and the windows task bar respectively when logged in Windows operating system. For more information on the BlueSoleil, please refer to Chapter 2.

Figure 1-17: BlueSoleil on the Desktop and the system tray.

8. Now you can plug-in / install your USB Bluetooth Adapter into your computer.

9. The Windows will show a prompt “Find new hardware – USB Device” in the system tray Bar. Please wait its finish the installation. When the Bluetooth Icon becomes Blue, then the hardware is installed and ready to use.

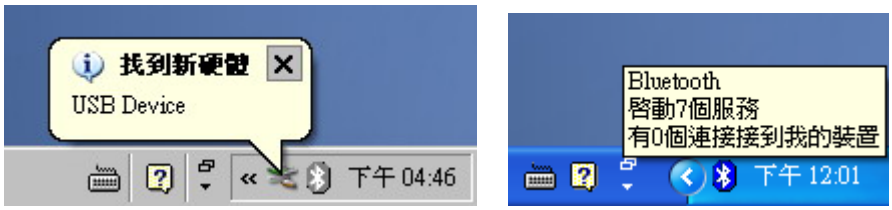

Figure 1-19: Bluetooth Icons in System tray.

10. Please remove the Software CD after the installation is complete.

1.4 Hardware Installation

Plug Bluetooth Adapter into your Desktop / Laptop's USB port.

Or you can use USB extend wire to extend the place you plug the Bluetooth Adapter.

1.5 Start the Bluetooth Device

The Bluetooth Adapter need to plug into the USB port of your computer, and Start the Bluetooth Adapter service for ready to service.

1. If you didn't plug the Bluetooth Adapter, the Start tray will show the Bluetooth is not available logo.

Figure 1-22: Bluetooth system tray shows Bluetooth Adapter is not available

2. After you plug the Bluetooth USB Adapter, the system tray Icon will become available.

Figure 1-23: Bluetooth system tray shows Bluetooth Adapter is working normal

3. Right Click the Bluetooth service tray Icon, press the ***"Display"***.

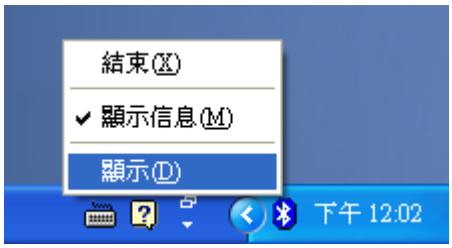

Figure 1-24: Start using Bluetooth from the system tray

4. Give this Bluetooth service computer a name and computer type, let the other Bluetooth identify.

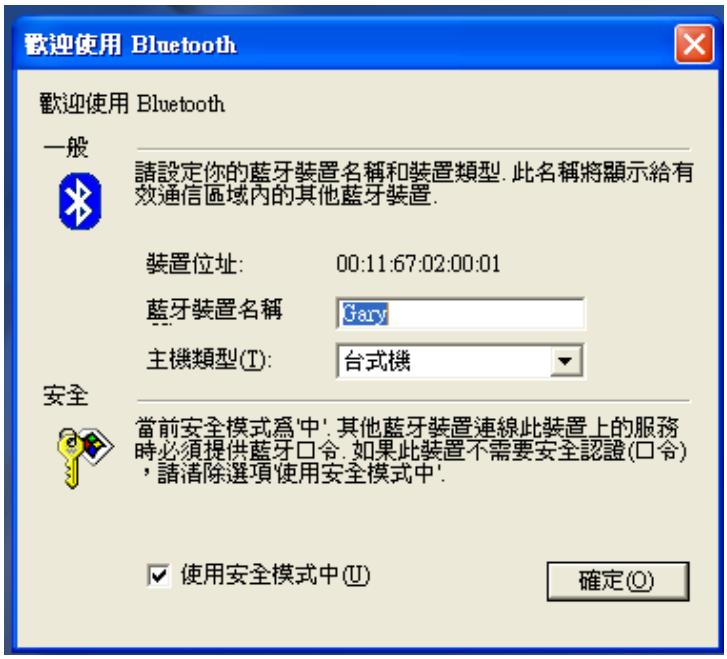

Figure 1-25: Give the Computer name and Computer type

1.6 Stop the Bluetooth Device

Remove the Bluetooth Adapter from the USB port. The tray bar icon will show the BlueSoleil is not available.

Figure 1-26: The Bluetooth Device is not available.

Chapter 2: BlueSoleil

After BlueSoleil software installed in your system, a BlueSoleil service will automatically execute while system starts and show its icon on the Windows system tray. The BlueSoleil provides several practical functions:

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

Figure 2-1: Bluetooth Adapter is ready to work in system tray

The BlueSoleil provides several practical functions:

1. End: Stop the BlueSoleil service.
2. Enable / Disable Display massages: To Enable / Disable show massages on the system tray.
3. Display: Display BlueSoleil Control window.

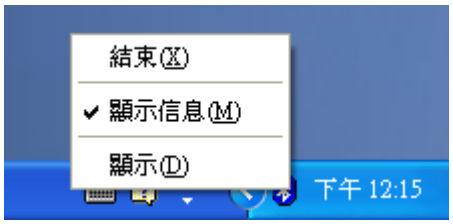

Figure 2-2: Right click the system tray Bluetooth to enter the functions

2.1 About BlueSoleil

BlueSoleil is Windows-based software from IVT that allows your Bluetooth® enabled desktop or notebook computer to wirelessly connect to other Bluetooth enabled

devices. BlueSoleil allows MS Windows users to wirelessly access a wide variety of Bluetooth enabled digital devices, such as cameras, mobile phones, and headsets, printers, and GPS receivers. You can also form networks and exchange data with other Bluetooth enabled computers or PDAs.

In order to connect and share services via Bluetooth wireless technology, two devices must support the same Bluetooth Profile(s) as well as opposite device roles (i.e., one must be the server, and the other must be the client). Bluetooth enabled devices often support multiple profiles, and if involved in multiple connections, can perform different device roles simultaneously.
BlueSoleil supports the following Bluetooth functions (Profiles) in the following device roles:

Bluetooth Functions (Profiles)	Client	Server
AV Headphone*	√	√
Basic Image Profile	√	√
Dial-Up Networking	√	
Fax	√	
File Transfer	√	√
Headset*	√	√
Human Interface Device	√	
LAN access	√	√
Object Push	√	√
Personal Area Networking	√	√
Printer	√	
Serial Port	√	√
Synchronization	√	√

Table 2-1: Bluetooth Profiles support list

Notes:

- Only one Headset or AV Headphone connection can exist at a time, since there is only one virtual Bluetooth audio device.
- The Headset and AV Headphone Profiles do not work on Windows 98SE or Windows Me.

Icons Used for Bluetooth Devices and Services

Bluetooth icons provide at-a-glance feedback about a device or service's status by changing appearance. The Bluetooth icon in the Windows system tray provides feedback about Bluetooth status.

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

Figure 2-3: Bluetooth Icon on BlueSoleil to provide Bluetooth Status

Local Bluetooth Device

The Local Bluetooth enabled device, known as "My Device", represents the user's computer that is running BlueSoleil.

Operations:

- Hover mouse to display the local Bluetooth device's name or address (if without name).
- Click on the red ball to start or stop searching for Bluetooth devices in range.
- Right-click on the red ball to display a pop-up menu of related operations (e.g., General Inquiry, My Services, Security, etc.).

Figure 2-4: Local Bluetooth Device

Remote Bluetooth Devices

Remote devices are other Bluetooth enabled devices that are in the Bluetooth radio range of your local device. BlueSoleil uses different icons to indicated different types of remote devices.

Icon Meanings:

- ✧ Remote devices can be in any of three states, which BlueSoleil indicates with different colors.
- ✧ White- Idle. The normal state of the device.
- ✧ Yellow- Selected. You have selected the device.

- ✧ Green- Connected. The device is connected to your computer.

Operations:

- ✧ Single-click on the icon to select.
- ✧ Double-click on the icon to search for the services supports by the remote Bluetooth device.
- ✧ Right-click on the icon to display a pop-up menu of related operations (e.g. Refresh Services, Pair Devices, Connect, etc.).

Devices	Icon	Devices	Icon
Personal Computer		Laptop	
Modem		Mobile	
PDA		LAN Access Point	
Keyboard		Mouse	
Microphone		HiFi Audio	
Loud Speaker		Headset	
Printer		Scanner	
FAX		Camera	
Game bar		Server	
Unknown device			

Figure 2-5: Remote Bluetooth Device

Bluetooth Service Buttons of Remote Device

Service buttons at the top of the Main Window represent a range of Bluetooth services potentially supported by Remote Devices.

Icon Meanings:

There are 3 states for the service icons, indicated by different colors.

- ✧ White- Idle. The normal state.
- ✧ Yellow- Available. The Bluetooth service is available on the selected remote device.
- ✧ Green- Connected. The Bluetooth service is active in a connection with the remote device.

Operations:

- ✧ Hover your mouse over the service icon to display the name of the service.
- ✧ Single-click on the service icon to connect.
- ✧ Right-click on the service icon to display a pop-up menu of related operations.

Services	Button Image	**Services**	Button Image
PAN		DUN	
SPP		LAP	
FTP		SYNC	
OPP		HCRP	
HID		FAX	
BIP		AV	
Headset			

Figure 2-6: Bluetooth Service Buttons of Remote Device

2.2 Explorer BlueSoleil

Double click the BlueSoleil on the Desktop or right click the BlueSoleil on the system tray. Then open the BlueSoleil service window. You can find correct working Bluetooth device in here. Also you can click the other function list on the left side of the windows.

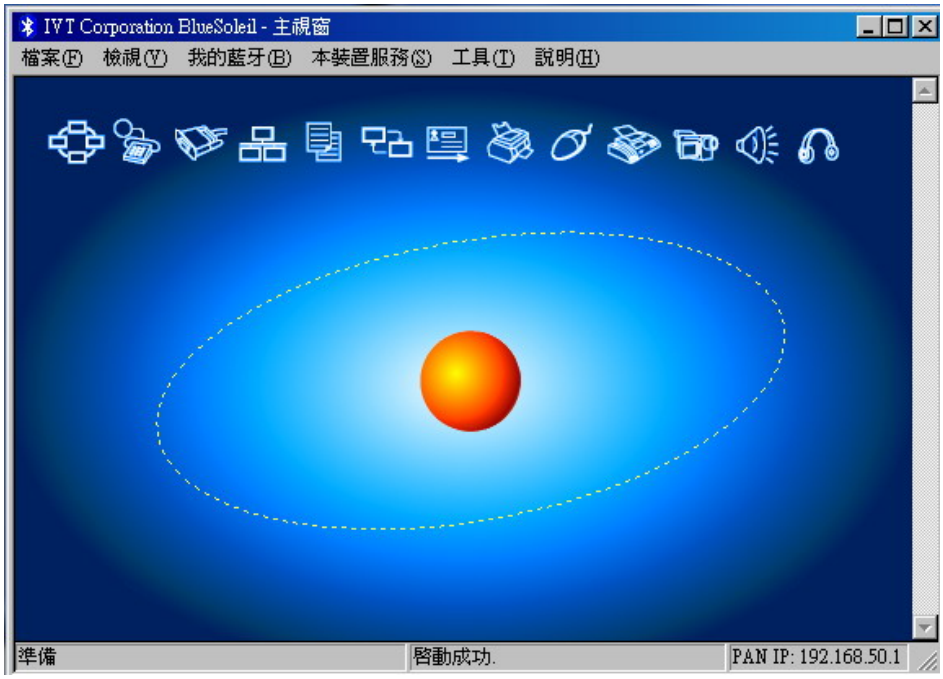

Figure 2-7: BlueSoleil main window

2.3 File

In the file menu, there are three items.

- Hide: Hide the BlueSoleil window. Connections can still run when the window is hidden.
- Always on Top Keep BlueSoleil window always on top.
- Exit: Exit BlueSoleil.

Note: You can also exit BlueSoleil by right-clicking on the task tray icon at the bottom of your screen. In the pop-up menu, click Exit.

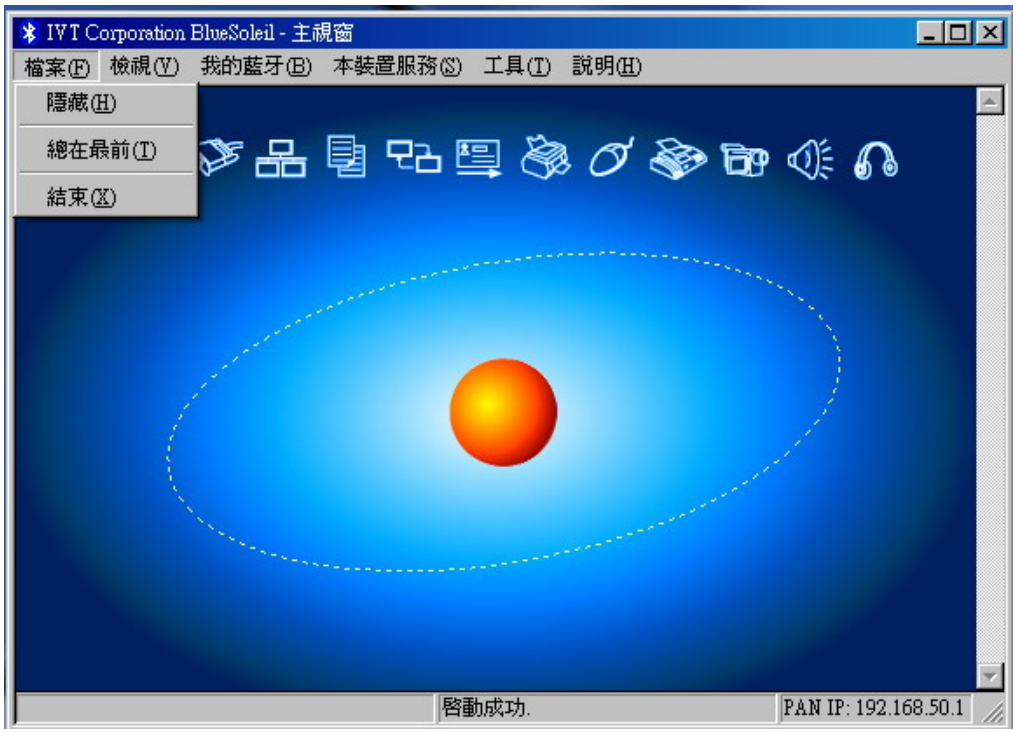

Figure 2-8: BlueSoleil file menu

2.4 View

In the view menu, there are four items.

- Main Window: Show the BlueSoleil Main Window.
- Service Window: Show the BlueSoleil Service Window.
- Arrange Devices: Arrange all remote devices by Device Name, Device Address or Device Type.
- Refresh Devices: Refresh the list of remote devices detected by BlueSoleil.

Note: If you select Refresh Devices, the list of previously detected devices will not be cleared. To initiate a new device search that will first clear the list, press F5.

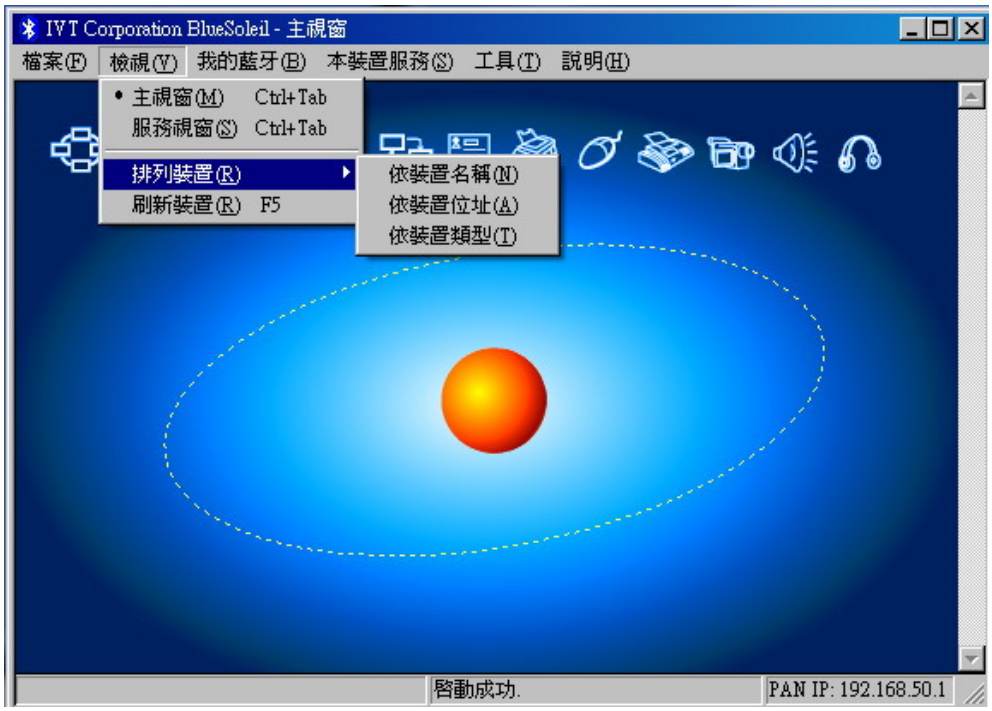

Figure 2-9: View BlueSoleil Main window

Figure 2-10: View BlueSoleil Services window

2.4.1 Local Service Status

The local service status can be viewed from the Local Service Status dialog box.

Right click whichever local service icon in service window and select the Status... on the pop-up menu.

The Local Service Status dialog will be displayed.

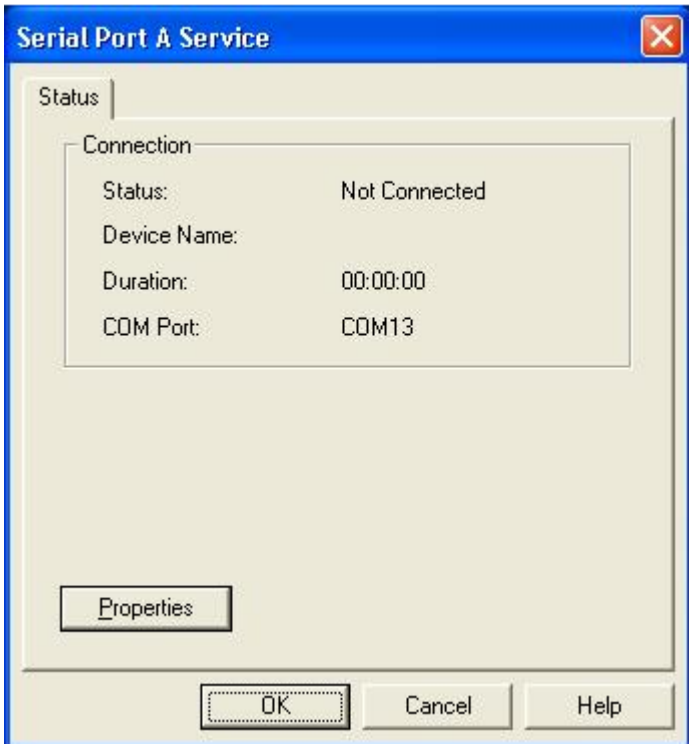

Figure 2-11: Local Service Status (e.g. Serial Port A service)

Connection:

- Status: Whether the local service is connected.
- Device Address: Display the Bluetooth address of remote device which connect to the service.
- Duration: The time elapsed since the connection was set up.
- COM Port: The virtual Bluetooth COM ports connected by remote device.

PAN Service Status dialog is different from others.

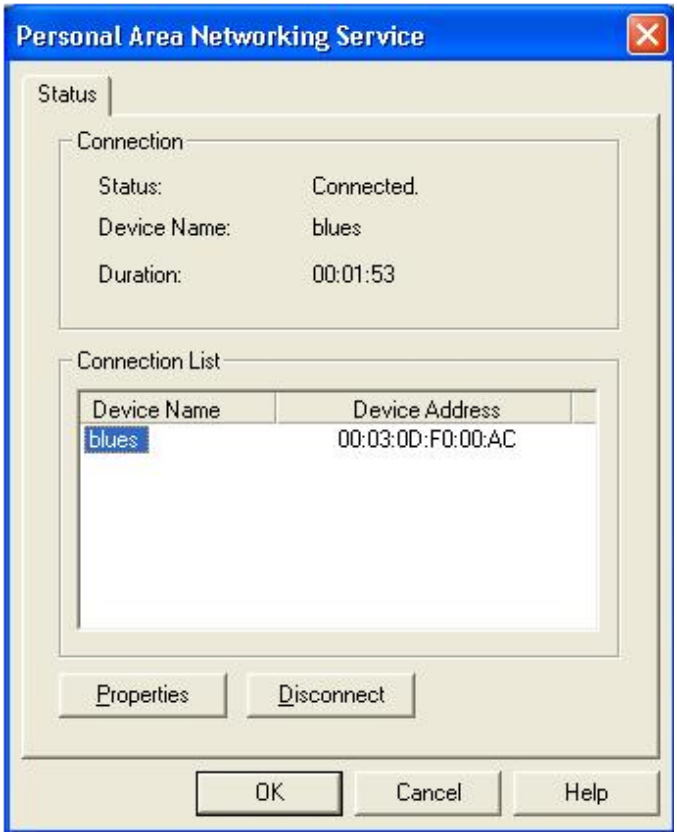

Figure 2-12: Local Service Status (PAN)

Connection:

- Status: Whether the local service is connected.
- Device Name: Display the name of remote device which connects to the service.
- Duration: The time elapsed since the connection was set up.

Connection List:

Display the names and addresses of remote devices which connect to the PAN Service.

2.4.2 Local Service List

The Local Service List displays all the Bluetooth services supported by the local computer. Use this screen to start/stop services.

Services	Icons	Services	Icons
PAN		SPP	
OPP		FTP	
SYNC		LAP	
A2DP		BIP	
Headset AG			

Figure 2-13: Local Service List

Icon Meanings

There are 3 states for the local Bluetooth services, indicated by different icon colors.

- ✓ White- Idle. The service has not been started.
- ✓ Yellow- Started. The local Bluetooth service has been started.
- ✓ Green- Connected. Some remote device has connected to the service.

Operations

- ✓ Single-click on the icon to select the service.
- ✓ Double-click on the icon to Start/Stop a service.
- ✓ Right-click to display a pop-up menu of related operations.

2.5 My Bluetooth

Configuration my Bluetooth device setting, there four items in the menu.

- Bluetooth Device Discovery: Search for other Bluetooth enabled devices in range.
- Bluetooth Service Discovery: Browse for the services of the selected remote device.

- Security: Configure the security setting of the local device (e.g. passkey requirement, data encryption, etc.).
- Properties: Configure the properties of the local device (e.g. device name, accessibility, etc.)

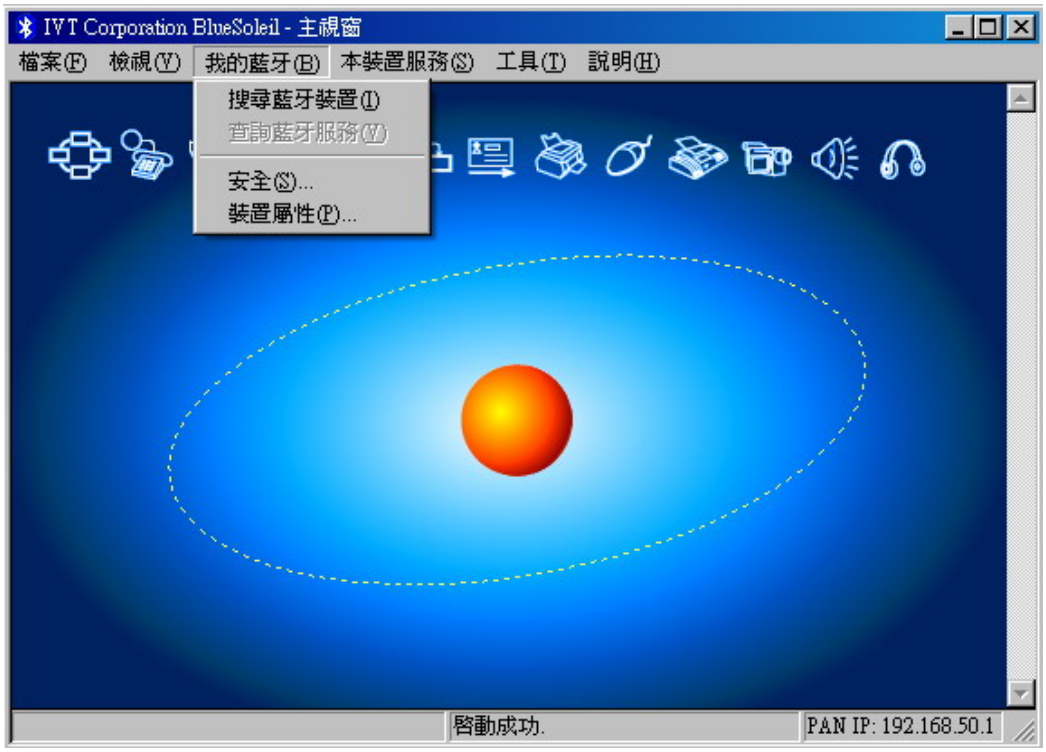

Figure 2-14: My BlueTooth

2.6 My Services Menu

Configuration my Bluetooth service setting, there four items in the menu.

- Start Service: Start the selected local Bluetooth service.
- Stop Service: Stop the selected local Bluetooth service.
- Status: View the status of the selected local Bluetooth service.
- Properties: Configure the properties of the local Bluetooth services (e.g., automatic connections, shared file locations, etc.).

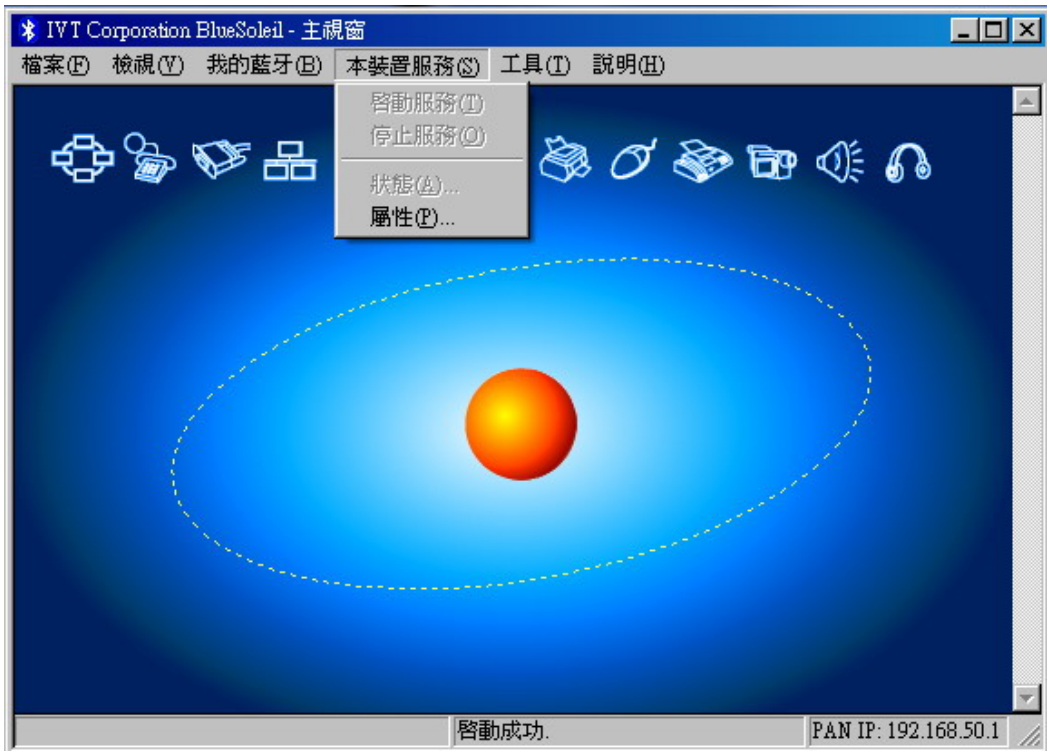

Figure 2-15: My Service Menu

2.7 Tools Menu

- My Bluetooth Shortcuts: Display dialog My Bluetooth Shortcuts. (Figure 2-16)

(1) Connect: Connect the selected shortcut.

(2) Delete: Delete the selected shortcut.

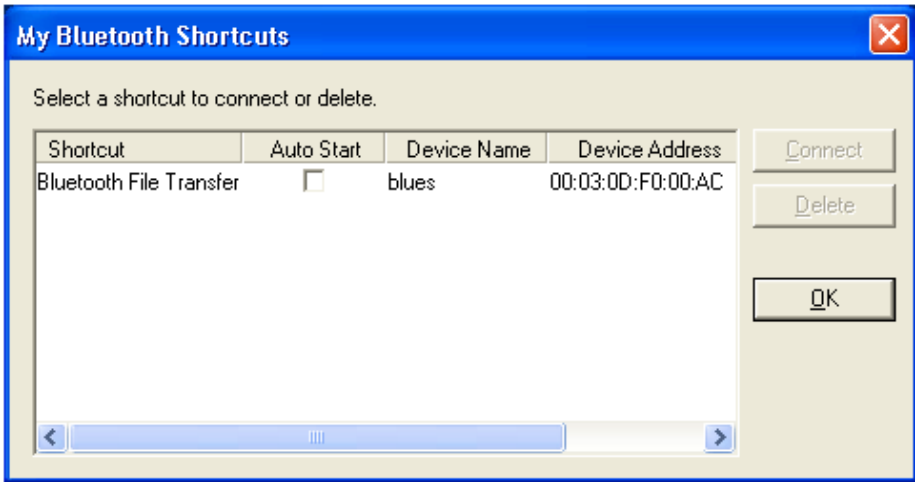

Figure 2-16: My BlueTooth Shortcuts

Figure 2-17: Tools Menu

- Find Device: Click to find a device, by either of two search criteria. (Figure 2-18)
  - ✧ By Bluetooth Device Address: Enter a Bluetooth device address, in standard format: (xx:xx:xx:xx:xx:xx), and click on the Find button. The device with the specified address will appear highlighted in the Main Window.
  - ✧ By Name: Check the By Name checkbox, enter the Name of the device, and click on the Find button. The device with the specified name will appear highlighted in the Main Window.

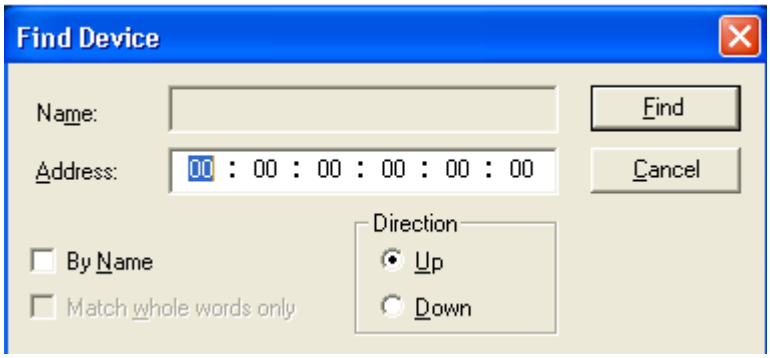

Figure 2-18: Find Device

- Add New Device: Add a remote device by entering its Bluetooth device address. (Figure 2-19)

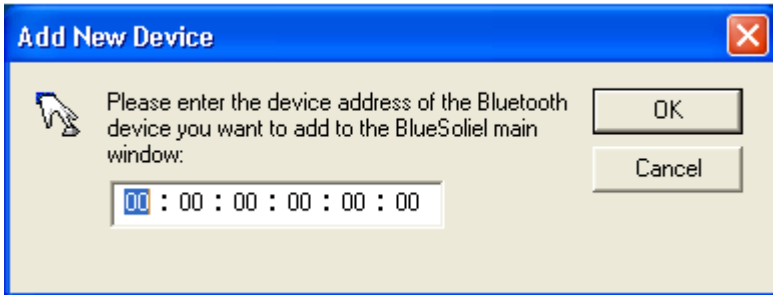

Figure 2-19: Add new Device

- Add Device From History: Add a remote device from history list. (Figure 2-20)

(1) Add: Add the selected device to the Main Window.

(2) Delete: Delete the selected device from the history list.

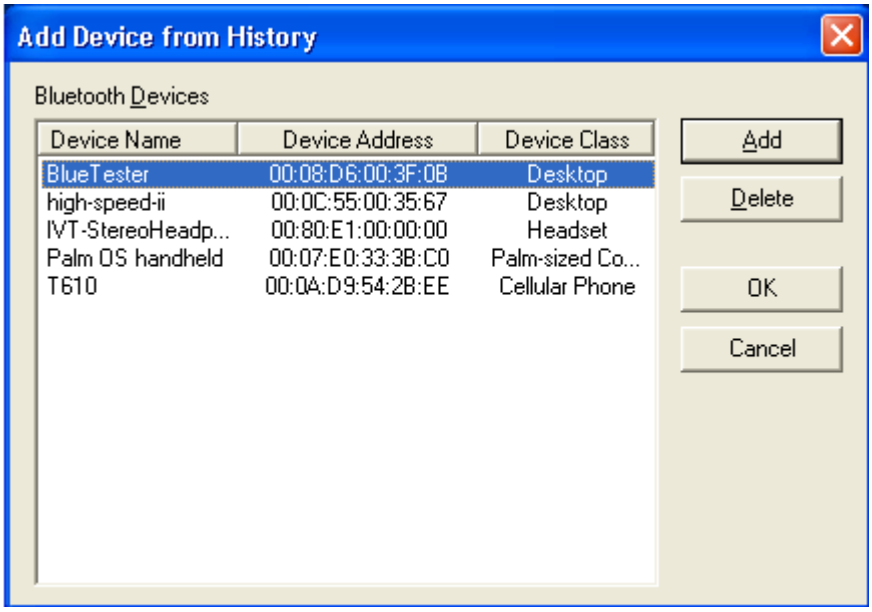

Figure 2-20: Add Device from History

- Configurations-> Quick Connect: If desired, assign a remote device to automatically connect with whenever an application opens a specified Bluetooth serial port.

(1) Assign: Assign a device to the selected port.

(2) Remove: Remove the Auto-Connection device assignment for the selected port.

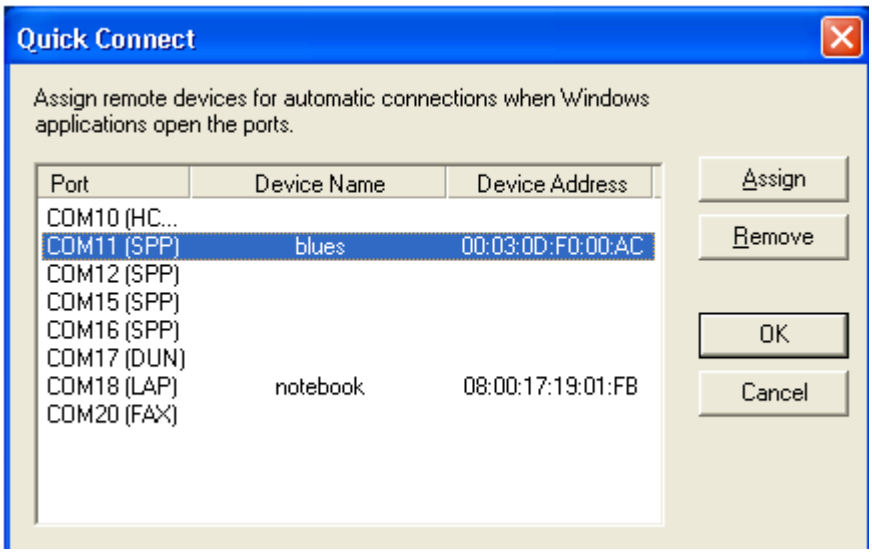

Figure 2-21: Quick Connect

- Configurations->Unplug HID: Remove Human Interface Devices from BlueSoleil. (Figure 2-22)

Unplug: Unplug the selected HID device.

When you first connect the HID device to your computer, BlueSoleil sets up the devices so that they will automatically reconnect in case the connection is ever broken. After you unplug an HID device, it will no longer automatically reconnect to your computer.

Figure 2-22: Unplug HID Device

My Bluetooth Device: Advanced hardware configuration, recommended for advanced users only. Please refer to ***Hardware Configuration*** for more details.

2.8 Help Menu

Contents and Index: Access BlueSoleil Online Help.

About BlueSoleil: Information about your version of BlueSoleil.

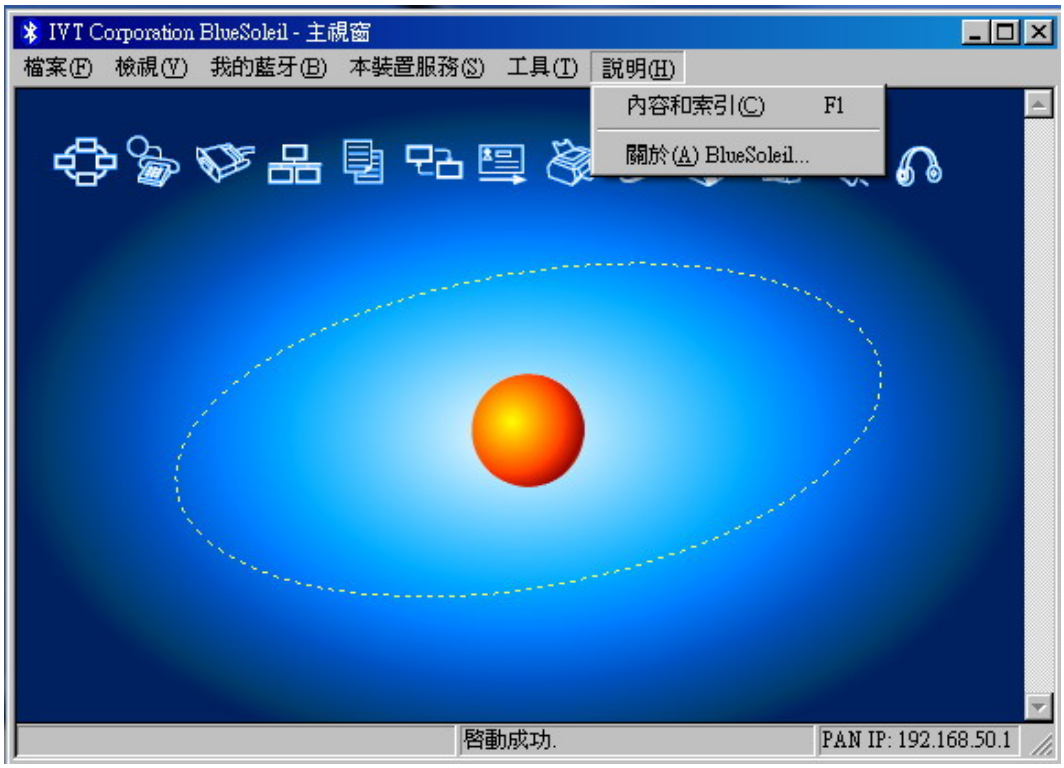

Figure 2-23 Help Menu