

# Welcome to BlueSoleil Online Help

## Getting Started with IVT BlueSoleil™

In this online help, the following will help you to learn more about BlueSoleil and to find out the answers for your questions:

- Introduction
- Getting Started
- User Guides

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## About BlueSoleil

BlueSoleil is a 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, 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	√	√

**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.

Platforms supported by BlueSoleil include:

- Windows 98SE/ME
- Windows 2000/XP

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# Getting Started

Basic operations for *Bluetooth*:

- Start *Bluetooth*
- Establish *Bluetooth* connection

BlueSoleil supported *Bluetooth* functions:

- AV Headphone
- Basic Imaging
- Bluetooth Synchronization
- Dial-Up Networking
- FAX
- File Transfer
- Headset
- Human Interface Device
- LAN Access
- Object Push
- Personal Area Network
- Printer
- Serial Port

For *Bluetooth* securities, please see:

- *Bluetooth* Security

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## See Also

*Bluetooth* User Guides

## Start *Bluetooth*

BlueSoleil supports the following kinds of *Bluetooth* radio adapters: USB, CompactFlash card (UART or BCSP).

### With *Bluetooth* USB Dongle:

1. Insert the USB dongle to your computer.
2. Start BlueSoleil.

The plug in and pull out of the USB dongle can be detected by BlueSoleil. You can start BlueSoleil first and then plug in a USB dongle.

Some *Bluetooth* CompactFlash cards cannot be detected when they are plugged in. Please configure the devices' parameters first.

### With **Bluetooth CompactFlash** card:

1. Insert the CompactFlash card to your computer and make sure the driver for the CompactFlash card is installed correctly.
2. Start BlueSoleil.
3. From BlueSoleil menu, select **Tools | Bluetooth Device...** to configure device. Select **BCSP** (or **UART**) in **Bluetooth Device** page and configure the COM port parameters in **Advanced Configuration** page.

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### See Also

[Establish Bluetooth Connection](#) [Terminate Bluetooth Connection](#) [Hardware Configuration](#)

## Establish **Bluetooth** Connection

A connection is normally initiated from the client.

- On the server side, start the service.
- On the client side, initiate the connection.

### Start Service on Server

If BlueSoleil provides service, please start the service:

1. Change to Service Window.
2. Right-click the service icon, select **Start Service** on the pop-up menu.

### Initiate Connection on Client

In Main Window:

1. Single click my device, the center ball, to search the **Bluetooth** devices in range.
2. Search the selected **Bluetooth** device service by double-clicking the device icon. Service button on the top of the BlueSoleil Main Window will be highlighted if the service is supported by the device.  
Enter the same **Bluetooth** passkey on both devices if necessary to pair the two devices.
3. Connect.  
Single-click the highlighted service button to establish the connection.

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## See Also

[Terminate Bluetooth Connection](#) [Connection Management](#)

[Establish Bluetooth Connection](#) [Terminate Bluetooth Connection](#) [Hardware Configuration](#)

# Terminate *Bluetooth Connection*

After a connection is established between client and server, user can terminate it whenever he/she wants. However, if the connection is terminated by force while data are being transmitted, some useful data may be lost. Please pay attention to this case.

## Terminate Connection on Server

The way of terminating the connection on server is to stop the service. This may lead to losing data if there has been a data transmission. Accordingly, it is recommended to terminate the connection on the client side.

There are two ways to stop the service:

1. Select a started service and right click the service icon on the Service Window. On the popup menu, select **Stop Service**. The service icon turns white, and the service is stopped.
2. Select a started service. Select menu **My Services** | **Stop Service**. The service icon turns white, and the service is stopped.

*Note: The status of the active service can also be obtained by selecting the menu item **Status...** from the context menu of the service icon.*

## Terminate Connection on Client

On the Main Window, select the remote device first and right click the service icon. On the popup menu, select **Disconnect**.

*Note: For more details on how to disconnect a connection on the client, please refer to [Connect/Disconnect](#).*

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## See Also

[Establish Bluetooth Connection](#) [Connection Management](#)

# Bluetooth Security

To modify your connection's security settings, click **My Bluetooth | Security**.

BlueSoleil offers three security levels:

- **Low** (Security Mode 1, Non-secure)

No security procedure is needed for connections.

- **Medium** (Security Mode 2, Service level enforced security)

Authentication or Authorization is requested when a specific service is accessed by other *Bluetooth* enabled devices. If two devices are connecting for the first time, or if two devices do not have a trusted relationship, then the same passkey must be provided on both sides to complete the Authentication. This mode allows you to assign different access rights for each service supported by the server device.

- **High** (Security Mode 3, Link level enforced security)

If either of two devices is in Mode 3, Authentication is requested whenever a link connection is initiated between two *Bluetooth* enabled devices. The passkey must be provided on both sides to complete Authentication.

**Note:** In Security Mode 2, the user can add each authenticated device into a trusted device list to expedite future connections.

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## See Also

[Bluetooth Security Configuration](#)

# AV Headphone

The AV Headphone Profile enables users to use a *Bluetooth* enabled headphone to listen high-quality stereo music played in a computer.

## Typical Usage

- Listen to music using a *Bluetooth* enabled AV Headphone.

Steps:

1. Connect to AV Headphone.
2. Play music using media player software on your computer. Music will be transmit wirelessly to the headphone.

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## See Also

[Start Bluetooth](#) [Establish Bluetooth Connection](#) [Terminate Bluetooth Connection](#)

# Basic Imaging

The Basic Imaging Profile (BIP) enables users to receive pictures from a *Bluetooth* device such as digital camera, mobile phone, or other compatible device. It also enables remote control of shooting, display, and other imaging functions.

## Typical Usage

- Control Camera to take pictures
- Receive pictures sent from BIP-enabled digital devices

### Control Camera to Take Pictures

Steps:

1. Connect to the camera. A *Bluetooth* Camera Controller will appear, Figure 1.
2. Click the button to capture the image. The captured image will be transmitted to your computer and displayed.

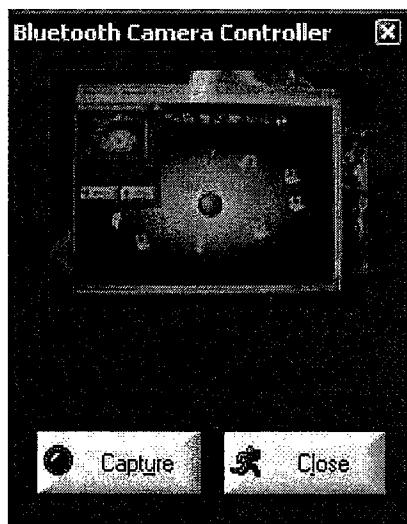


Figure 1 *Bluetooth* Camera Controller

### Receive Pictures

1. Assign the directory where you would like to save image files pushed from the client device. Click My Services | Properties. Click on the Basic Image Push tab. In the Set the image directory field, browse to select the file location. Click OK.
2. Start the BIP service.
3. Send pictures from the remote device. For instructions, refer to the user documentation for the remote device.

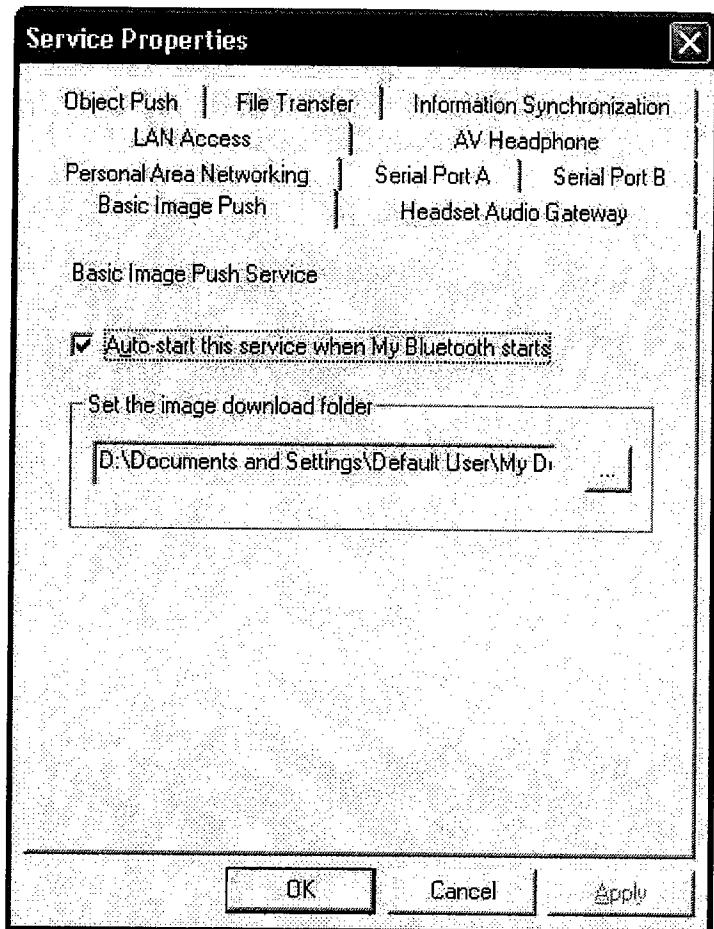


Figure 2 Service Configuration

## See Also

[Start Bluetooth](#) [Establish Bluetooth Connection](#)

## Dial-up Networking

The *Bluetooth* Dial-up Networking (DUN) Profile enables users to wirelessly dial-up to Internet through a *Bluetooth* modem or a mobile phone that supported the DUN Profile.

## Typical Usage

- Dial-up to Internet via a *Bluetooth* enabled mobile phone.
- Dial-up to Internet via a *Bluetooth* enabled modem.

### Dial-up to Internet via a *Bluetooth* mobile phone

1. Connect to the phone's Dial-Up Networking Service.
2. The **Dial-Up Dialog** will appear. Enter the dial-up number, User name, and Password. Make sure the correct dial-up number is entered, then click on the Dial button.

**Note:** The default dial-up number \*99\*\*\*1# only works with certain GPRS phones and service providers in the United States. If necessary, enter the correct dial-up number for your Internet Service Provider (ISP).

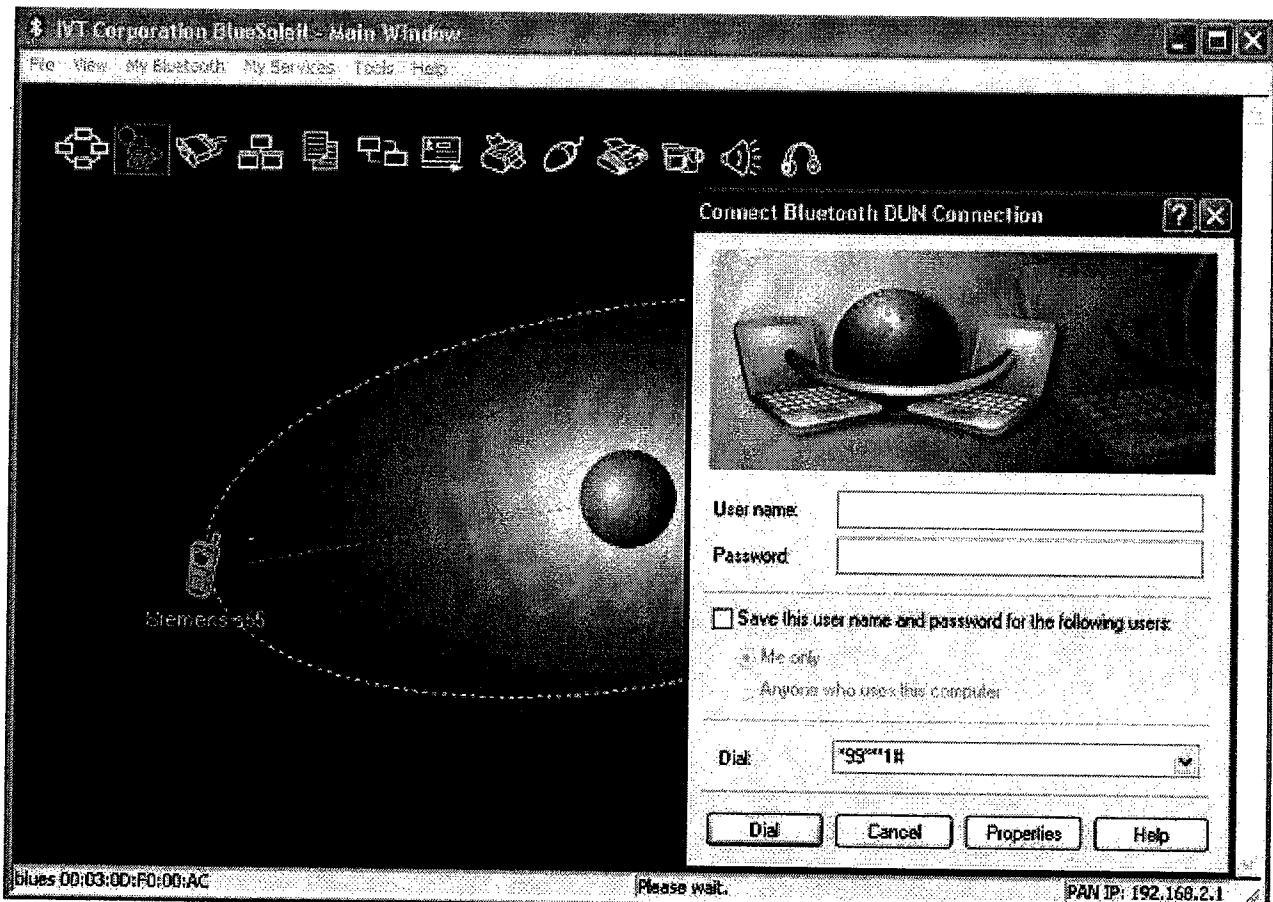


Figure 1 Dial-Up Dialog

**Note:** After you successfully connect, a screen will ask if you would like to create a dial-up shortcut on your desktop. This would allow you to conveniently dial up and connect by simply clicking on the shortcut, without having to manually start BlueSoleil. Alternatively, after starting BlueSoleil, you can start the shortcut by clicking Tools | My Shortcuts.

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## See Also

[Start Bluetooth](#)   [Establish Bluetooth Connection](#)

## FAX

The *Bluetooth FAX* profile enables users to send fax from a computer via a *Bluetooth* enabled mobile phone or modem.

## Typical Usage

- Send fax via a *Bluetooth* enabled mobile phone.
- Send fax via a *Bluetooth* enabled modem.

### Send Fax via *Bluetooth* enabled mobile phone

1. Connect to the mobile phone's FAX service.
2. Use your fax software to send the message.

### Send Fax via *Bluetooth* enabled modem

1. Connect to the modem's fax service.
2. Start your fax software. Configure your fax software for the Bluelet Fax Modem (NOT the Bluelet Modem). Refer to your fax software's user documentation for instructions.
3. Use your fax software to send the message.

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### See Also

[Start \*Bluetooth\*](#)   [Establish \*Bluetooth\* Connection](#)

## File Transfer

The File Transfer Profile (FTP) enables users to transfer files and/or folders between *Bluetooth* enabled laptops, desktops, PDAs, mobile phones, etc.

## Typical Usage

- Connect to a *Bluetooth* enabled mobile phone and transfer files or folders to/from the phone.
- Share a folder on your computer with other *Bluetooth* enabled devices.
- Access a shared folder on another *Bluetooth* enabled device.

### Connect to a Phone

Steps:

1. Connect to the phone's FTP service.
2. The phone's folders are shown in a window. Users can copy/paste/delete files or folders.

### Share a Folder on Your Computer with other *Bluetooth* Enabled Devices

Steps:

1. Select the folder you would like to use for file sharing and define the remote user privileges.

**Click My Services | Properties.** Click on the File Transfer tab.

**Share this folder:** Browse to select the folder you would like to share.

**Share Permissions:** Select Read and Write to allow others to copy, paste or delete files/folders in this folder. Select Read Only to allow others to only browse and copy files/folders from this folder.

2. Start the FTP service in BlueSoleil. Do not initiate the connection in BlueSoleil.
3. Browse your computer from the remote device. For instructions, refer to the user documentation for the remote device. When the remote device attempts to connect to your computer, the Bluetooth Service Authorization screen may appear. Click Yes.
4. After successfully connecting, the remote device can browse, copy, paste, and/or delete files on your computer, depending on the remote folder privileges you allowed. For instructions, refer to the user documentation for the remote device.

### Access a Shared Folder on Another *Bluetooth* Enabled Device

1. On the remote device, designate the folder/files to share. Enable file sharing on the remote device. For instructions, refer to the user documentation for the remote device.  
*Note: If you do not enable file sharing on the remote device, BlueSoleil will not be able to discover the device's file sharing service.*
2. Start the FTP service and initiate the connection in BlueSoleil.
3. A Remote Shared Folder screen will appear, displaying shared files/folders on the remote device. Use the screen to browse, copy, paste, and/or delete files, depending on your folder privileges.

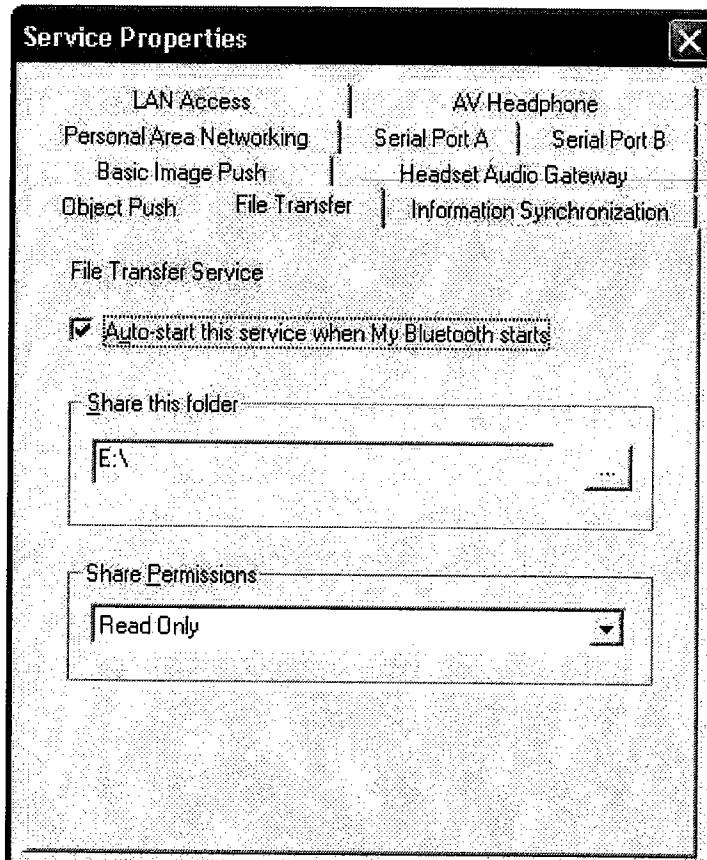




Figure 1: Service Configuration

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#### See Also

[Start Bluetooth](#)   [Establish Bluetooth Connection](#)

## Headset

The Headset Profile enables users to use a *Bluetooth* headset as wireless earplug or microphone.

### Typical Usage

- Use Headset as a device for audio input/output.

#### Use Headset as Sound Input/Output Device

Steps:

1. Connect to the *Bluetooth* enabled headset.
2. Play music on your computer or chat using network meeting tools. You may need to press a multifunction button on your headset to transmit audio between the computer and the headset.

**Note:** For most *Bluetooth* enabled headsets, after you have successfully connected for the first time, you can quickly reconnect to BlueSoleil by simply pressing a multifunction button on the headset.

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#### See Also

[Start Bluetooth](#)   [Establish Bluetooth Connection](#)

## LAN Access

The *Bluetooth* LAN Access Profile (LAP) allows users to access a Local Area Network (LAN) via a *Bluetooth* enabled LAN access point.

### Typical Usage

- Accesses a Local Area Networking via a *Bluetooth* enabled LAN access point.
- Use your computer as a LAN Access Point.

#### Access a LAN via a *Bluetooth* enabled Access Point (AP)

1. Connect to the LAN AP's LAP service.
2. In the **Connect Bluetooth LAP Connection** dialog, enter the user name and password if necessary. Click **Connect**.

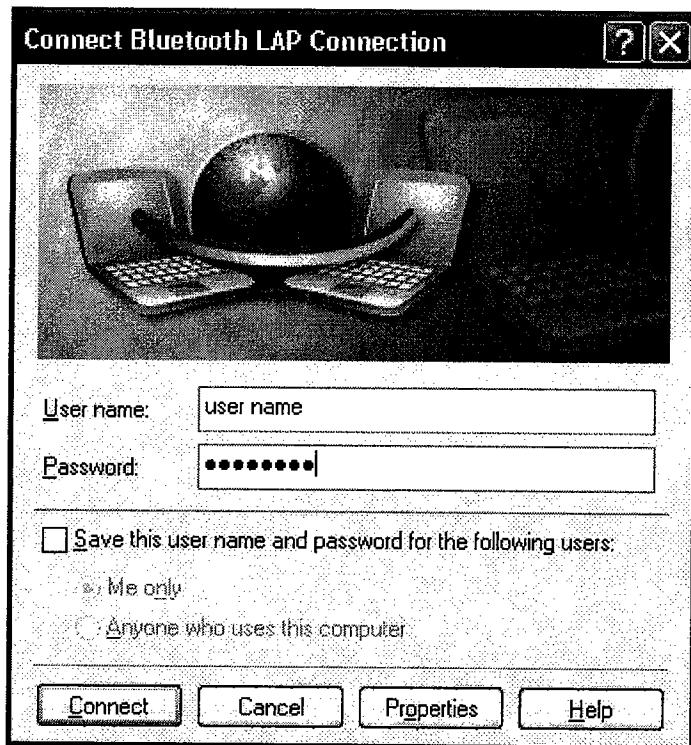


Figure 1 Connect *Bluetooth LAP Connection*

## Use your computer as a LAN Access Point (Advanced Users Only)

1. Start the *Bluetooth LAP Access* service on BlueSoleil.
2. Specify any static IP addresses for LAP clients (Alternatively, you can use DHCP to have the system dynamically assign IP addresses).
  - (1) In the **Network Connections** window, right click **Incoming Connection**, then select **Properties** (Figure 2).

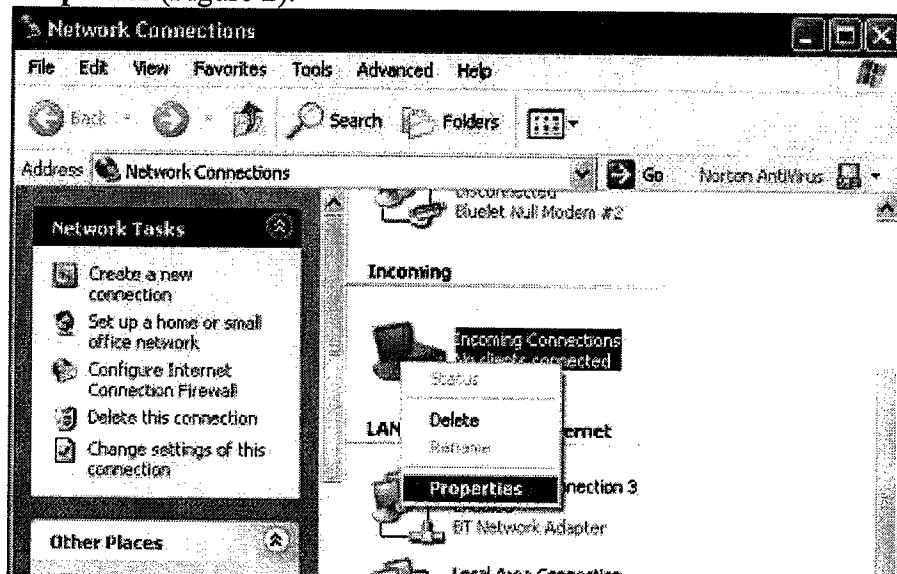




Figure 2 : Select Properties On the Pop-up Menu

(2) Select **Incoming Connections Properties** | **Networking** -> **Internet Protocol (TCP/IP)**, and click on the **Properties** button. (Figure 3)

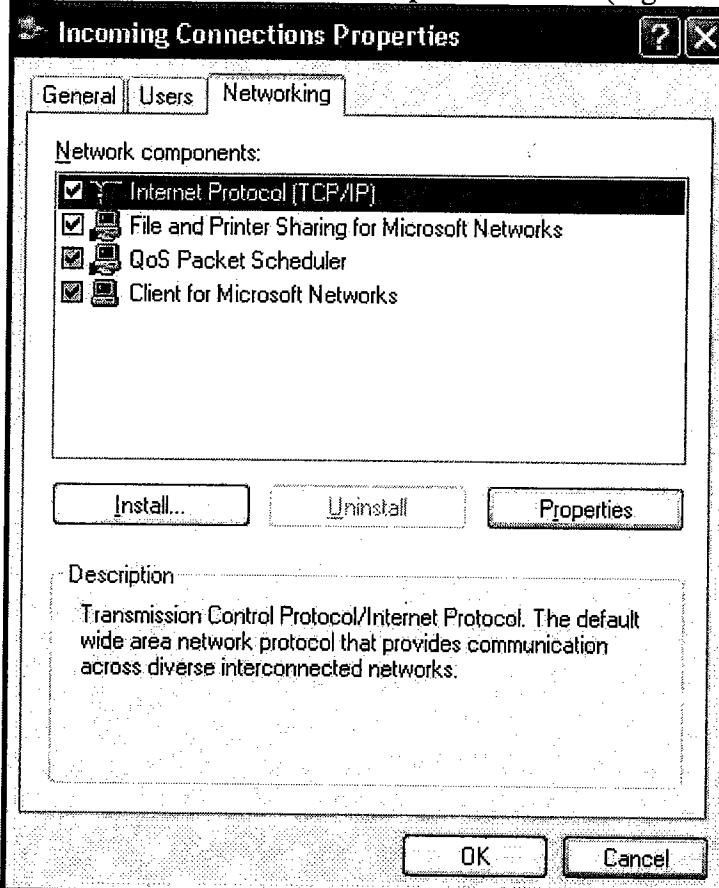
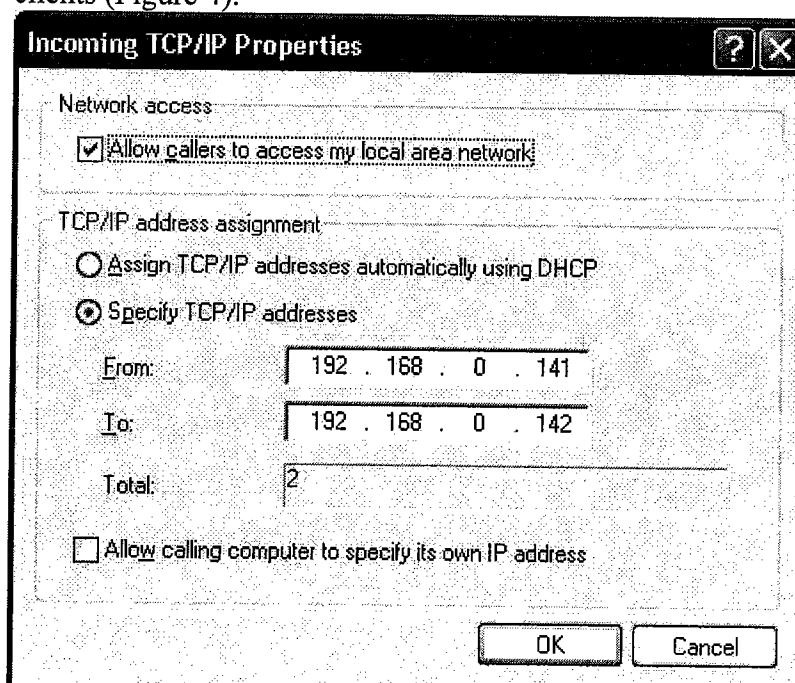


Figure 3 : Internet Protocol (TCP/IP) Network Component

(3) Select **Specify TCP/IP addresses** and enter the range of IP addresses assigned to LAP clients (Figure 4).



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#### Figure 4 : Enter the IP Addresses

**Note:** *In order to use a Windows 98SE/Me system as an access point, you must have already installed a Dial-up Adapter and the Windows Direct Cable Connection component on the system.*

#### See Also

[Start Bluetooth](#)   [Establish Bluetooth Connection](#)

## Object Push

The *Bluetooth* Object Push profile (OPP) enables users to send and receive Personal Information Management (PIM) data objects (Including messages, notes, calendars items, and Business cards) to and from a *Bluetooth* enabled PDA or mobile phone.

The objects supported:

- Contacts (\*.vcf)
- Calendars (\*.vcs)
- Notes (\*.vnt)
- Messages (\*.vmg)

## Typical Usage

- Push objects to a *Bluetooth* enabled mobile phone or PDA
- Receive objects from a *Bluetooth* enabled mobile phone or PDA

**Note:** *If you would like to push PIM objects to a PDA, make sure that the PDA is ready to receive a PIM object before you start. If necessary, enable Object Push on the PDA. For instructions, refer the PDA's user documentation.*

## Push Objects to a *Bluetooth* Mobile Phone

There are two ways to push objects:

1. From BlueSoleil **Main Window**:

Double-click on the mobile phone or PDA icon to browse for service information. The Object Push Service icon should be highlighted at the top of the screen. Right click the Object Push Service icon, and in the pop-up menu click Send My Card. (Figure 1)

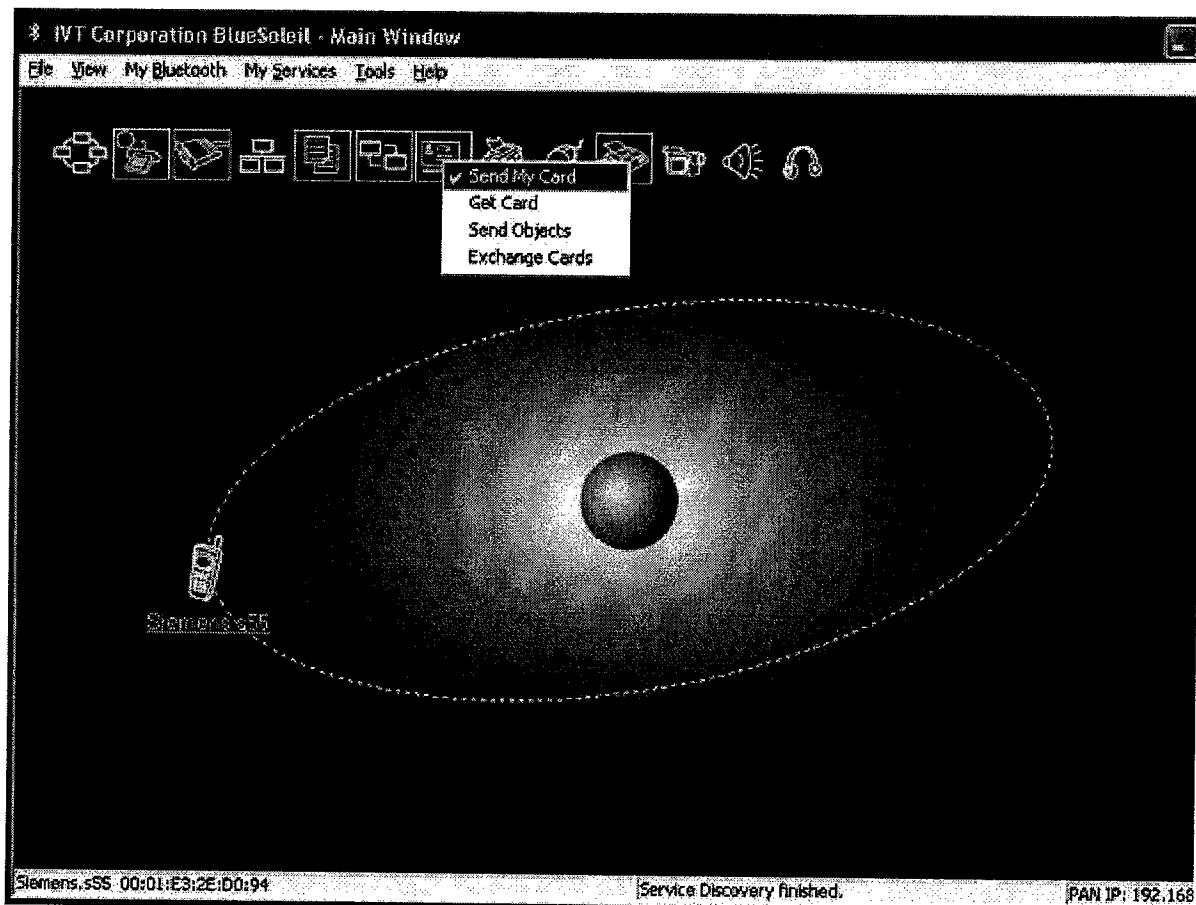


Figure 1: Send Object

- **Send My Card:**

Send your default business card.

- **Get Card:**

Get the default business card of the phone.

- **Send Objects:**

Select some objects (PIM files in \*.vcf, \*.vcs, \*.vnt, \*.vmg) and send to phone.

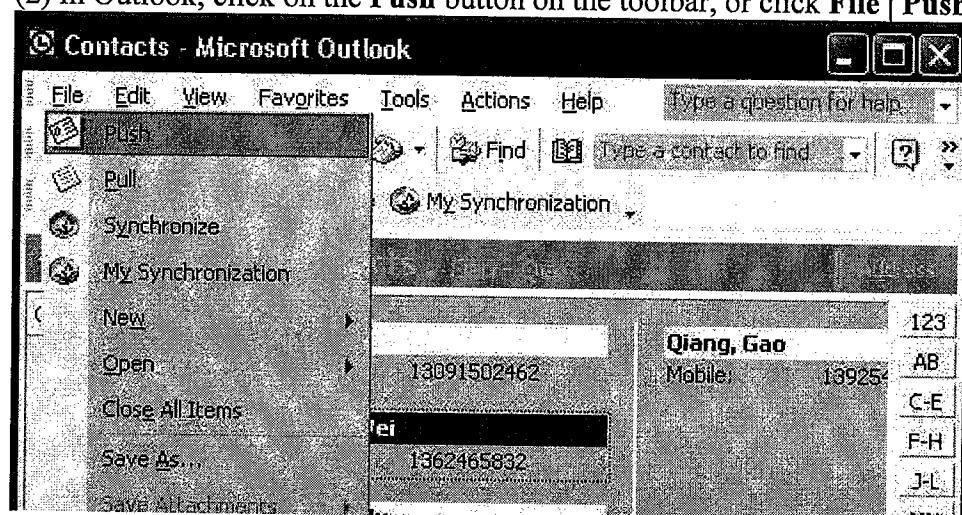
- **Exchange cards:**

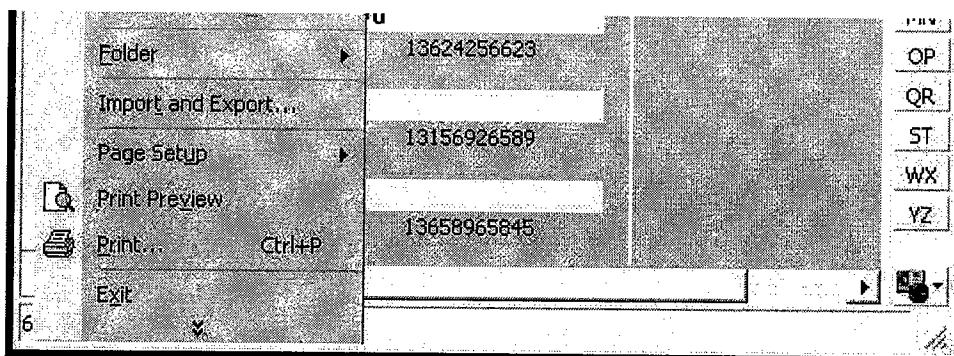
Have your computer and the phone to exchange their default business cards.

2. From MS Outlook:

(1) Select the contact that you would like to send.

(2) In Outlook, click on the **Push** button on the toolbar, or click **File | Push**.



Figure 2 Outlook *Bluetooth* Add-in

(3) The *Bluetooth Neighbors* screen will appear. In the device list, select the phone or PDA that you wish to push the contact to. Click on the Push button.

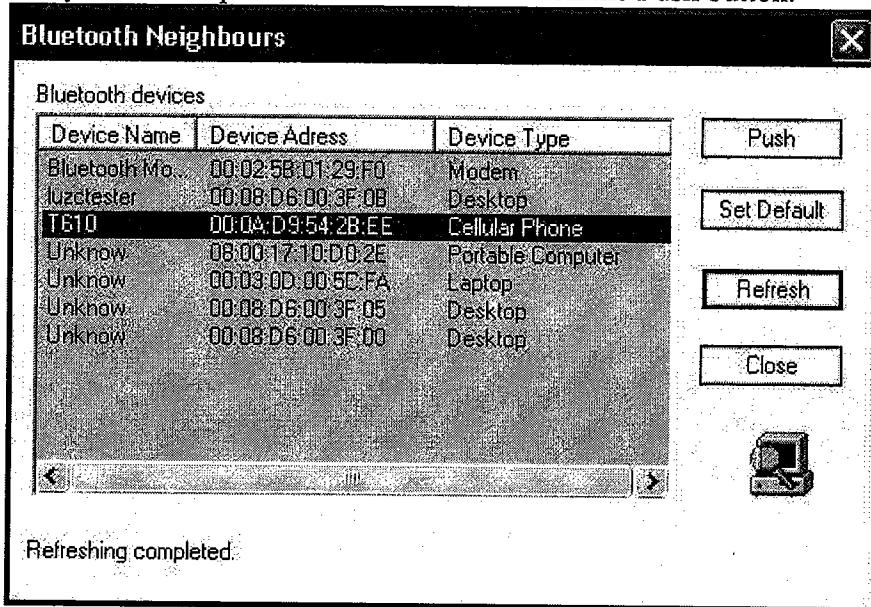
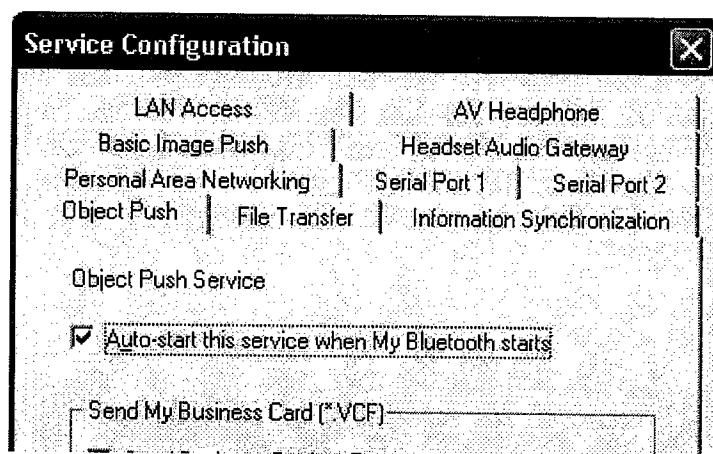


Figure 3 Select the Remote Device

## Receive Objects from a *Bluetooth* Phone

Steps:

1. Configure the parameters for the object push. From the Main Window, click **My Service | Properties**. Click on the **Object Push** tab.



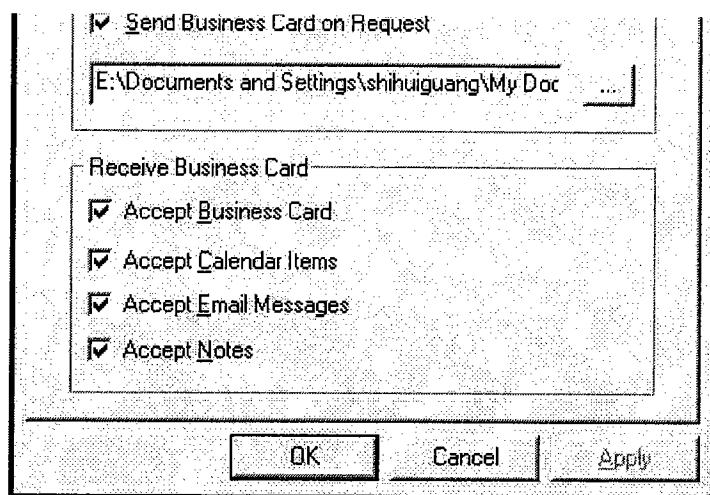
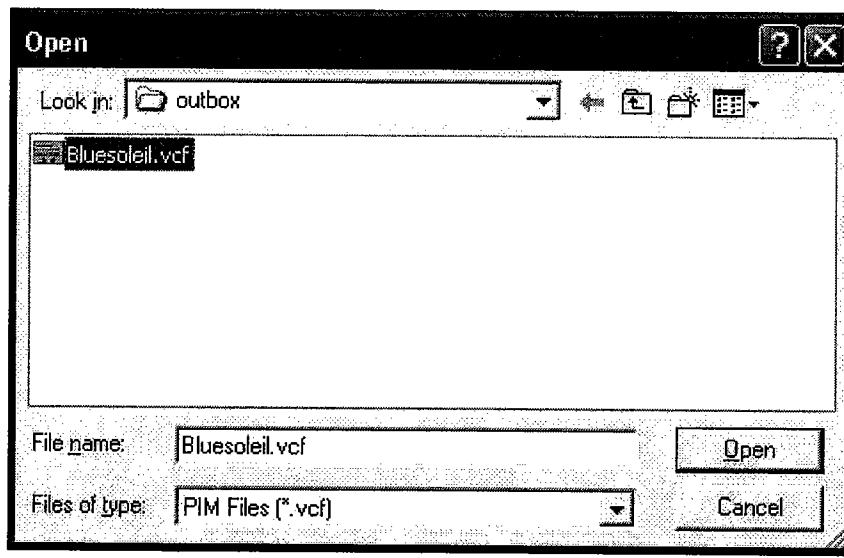


Figure 1: Object Push Service Configuration

2. Start Object Push service. Do not initiate a connection, only start the service so that your computer will be ready to receive objects.
3. Send objects from the phone. For instructions, refer to your phone's user documentation.

**Notes:**

- *BlueSoleil creates a Bluetooth folder (with Inbox and Outbox subfolders) in your My Documents folder for use with Object Push. The Inbox is used to save objects received from other devices. The Outbox is used to save objects sent out from your computer.*
- *Your can set your default business card by clicking My Services | Object Push. In the Send My Business Card field, browse to select a contact as your default business card.*



**See Also**

[Start Bluetooth](#)   [Establish Bluetooth Connection](#)

# Personal Area Networking

The *Bluetooth* Personal Area Networking (PAN) Profile enables PCs, laptops, PDAs, and other *Bluetooth* enabled devices to form either of two kinds of PAN networks. In a Group ad-hoc Network (GN), which functions as an isolated network, multiple PAN Users (PANUs) are linked together via a GN controller. Alternatively, a PAN can consist of multiple PANUs linked to a Network Access Point (NAP), which provides access to external Local Area Network (LAN) infrastructure. BlueSoleil supports all three of these device roles — GN (controller), PANU, and NAP.

## Typical Usage

- Group Ad-hoc Network (Peer-to-peer networking)  
One device acts as the GN, and others function as PANU devices. These computers can visit each other or use an application based on TCP/IP.

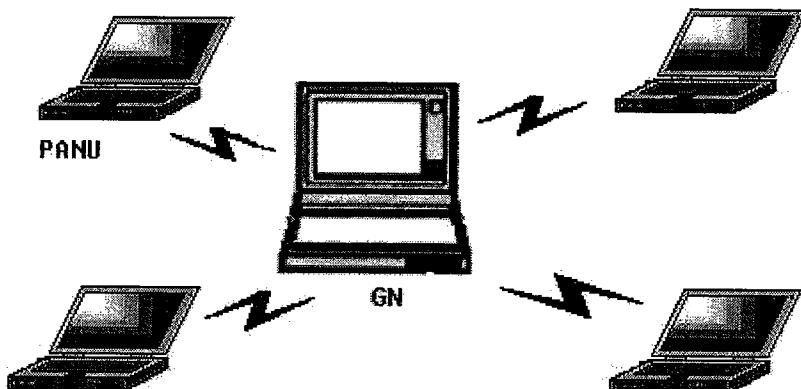


Figure 1: Group Ad-hoc Network

- Access a LAN via a Network Access Point (or a Computer Acting as a NAP)  
After the computers connect to the NAP, they become members of the LAN and can directly communicate with other computers in the LAN.

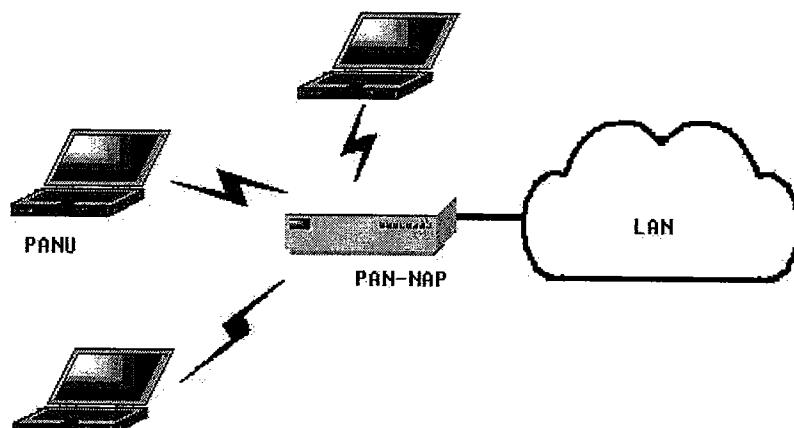


Figure 2: Access LAN Via PAN-NAP

### Connecting the PAN User (PANU)

1. Connect to the server's Personal Area Network service .

2. Wait for a few seconds for BlueSoleil to obtain and display your computer's IP address.

## Configuring the NAP/GN

Click **Bluetooth Service | Properties** and click on the **Personal Area Network** tab.

- Scenario 1: Group Ad-hoc Network

Select **Set up Bluetooth Personal Area Network** and **Enable DHCP Server** (Figure 3). A DHCP server will be started on the GN . The PANU can obtain an IP address automatically from this DHCP server if the PANU does not set static IP address for the **BT Network Adapter**.

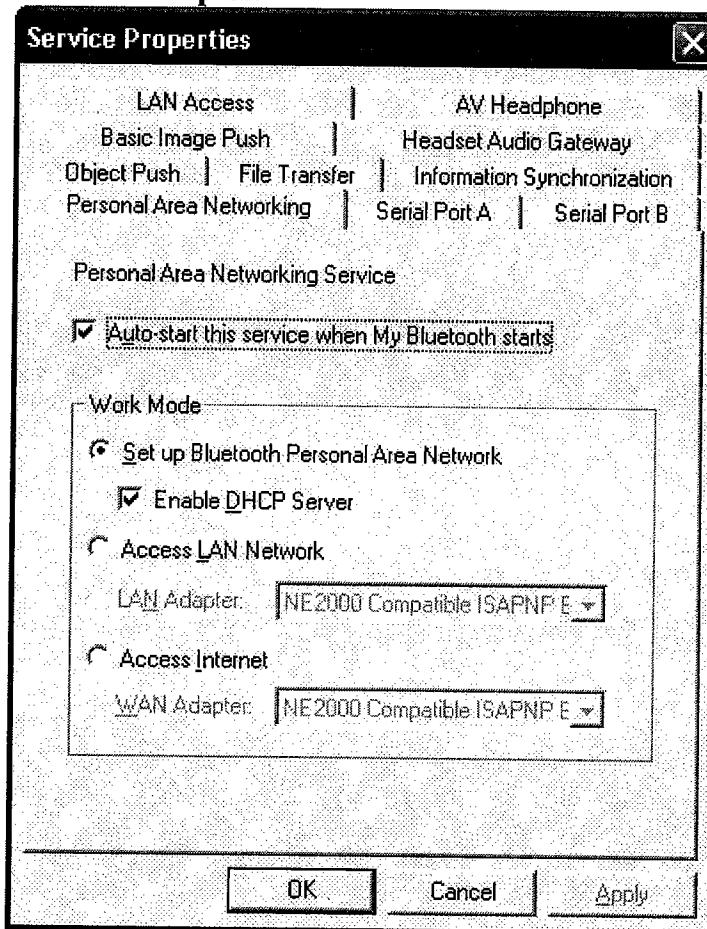
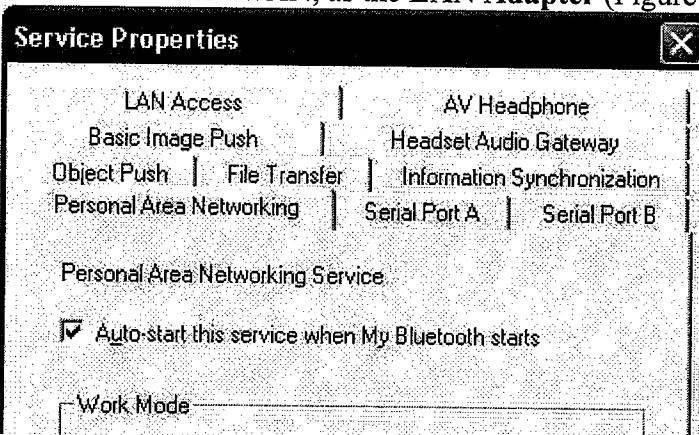


Figure 3: Set Up *Bluetooth Personal Area Network*

- Scenario 2 : Access LAN via PAN-NAP

Select **Access LAN Network** and select a physical network adapter, through which the NAP connects to a LAN, as the **LAN Adapter** (Figure 4).



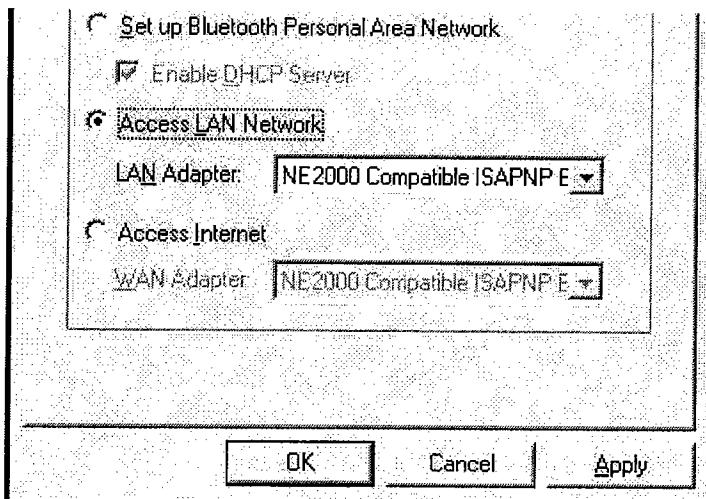


Figure 4: Access LAN Network

- **Scenario 3 : Access Internet via NAP**

Select **Access Internet** and select a physical network adapter, through which the NAP connects to Internet, as the **WAN Adapter** (Figure 5). It will automatically enables NAT (Network Address Translation, please refer to Windows Help Topic) function and a DHCP server.

*Note: The **BT Network Adapter** on the PANU side must be set to obtain an IP address automatically. The IP address is in the form of 192.168.2.xxx, such as 192.168.2.1.*

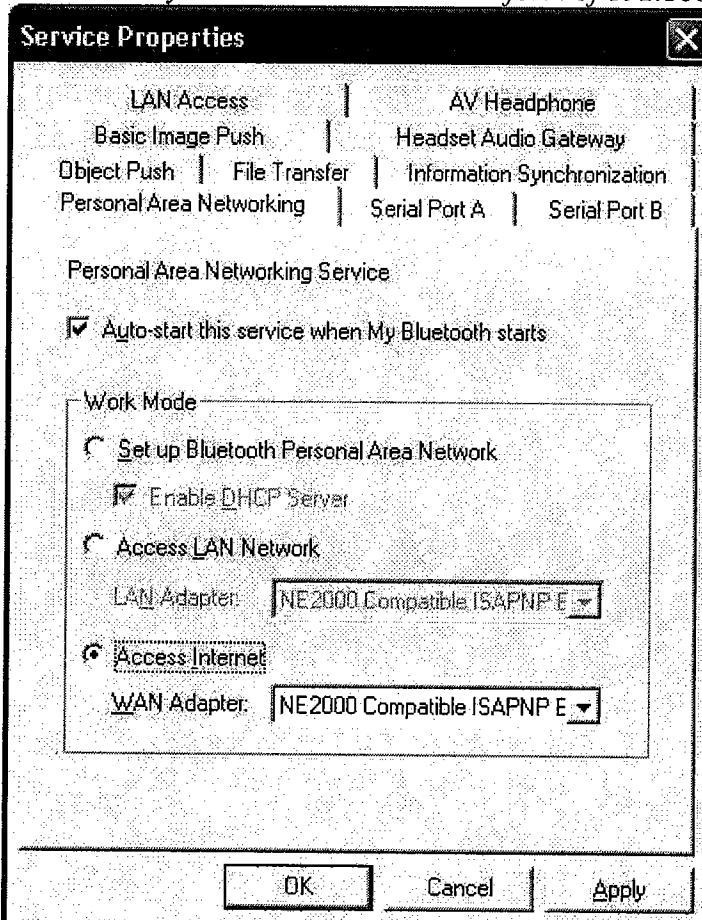


Figure 5: Access Internet

## See Also

[Start Bluetooth](#) [Establish Bluetooth Connection](#)

# Printer

The *Bluetooth* Printer Profile (HCRP) enables your computer to connect to a *Bluetooth* enabled printer.

## Typical Usage

- Print documents to a *Bluetooth* enabled Printer.

### Print Documents to a *Bluetooth* Printer

1. Connect to the printer's printer service.
2. (a) If your computer does not have the correct printer drivers installed, BlueSoleil will prompt you to do so (Figure 1).

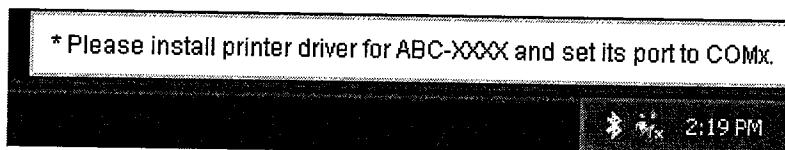


Figure 1 *Bluetooth* Printer Driver Is Not Installed

Install the driver for the printer, and remember to set the printer port to the correct COM port number. To determine the correct COM port number, in the Main Window, right-click on the device icon. In the pop-up menu, select Status.

(b) If the printer driver has been installed, a message indicates the *Bluetooth* printer is ready (Figure 2).



Figure 2 Printer Driver Is Ready

3. Print documents using the *Bluetooth* enabled printer. In the application, be sure to select the correct printer and printer port.

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## See Also

[Start Bluetooth](#) [Establish Bluetooth Connection](#)

# Serial Port

The *Bluetooth* Serial Port Profile (SPP) provides PCs, laptops, PDAs, GPS receivers, cordless serial adapters, and other *Bluetooth* enabled devices with a virtual serial port, enabling them to connect with each other wirelessly via *Bluetooth* instead of a serial cable.

BlueSoleil supports four *Bluetooth* Serial Ports for out-going connections and two *Bluetooth* Serial Ports for incoming connections.

## Typical Usage

- Connect to other *Bluetooth* enabled devices via the Serial Port.

### Connect to a PDA

Steps:

1. Connect the PDA's Serial Port service.
2. Use ActiveSync or any software that uses a serial connection.

**Note:**

- *Serial Port Auto-Connection function*

*Once a target device is assigned to a specific serial port, (e.g., COM5), whenever an application opens that serial port number, BlueSoleil will automatically connect to the target device. Similarly, whenever an application closes the Bluetooth serial port, BlueSoleil will stop the connection. To check which devices are assigned to which COM ports, click Tools | Configurations | Quick Connect.*

- *Some applications only allow you to use a limited range of COM port numbers. If the application does not allow you to use a COM port number assigned by BlueSoleil, you will not be able to use BlueSoleil with your application.*

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### See Also

[Start \*Bluetooth\*](#)   [Establish \*Bluetooth\* Connection](#)

# ***Bluetooth* Synchronization**

The *Bluetooth* Synchronization (SYNC) Profile enables users to synchronize PIM objects on their computer with that of other *Bluetooth* enabled computers as well as *Bluetooth* enabled mobile phones, PDAs, and other devices.

Four kinds of objects are supported:

- Contacts (\*.vcf)
- Calendars (\*.vcs)

- Notes (\*.vnt)
- Messages (\*.vmg)

Supported Outlook versions: MS Outlook 2000, Outlook 2002 (xp), Outlook 2003.

## Typical Usage

- Synchronize your computer with a *Bluetooth* enabled mobile phone

### Synchronize with a *Bluetooth* enabled Mobile Phone

Steps:

1. Connect to the mobile phone's Synchronization service.
2. A synchronization dialog will appear (refer to Figure 1). Click on the Start button to synchronize. Contacts, calendars, notes and emails in MS Outlook will be synchronized with those on the phone.

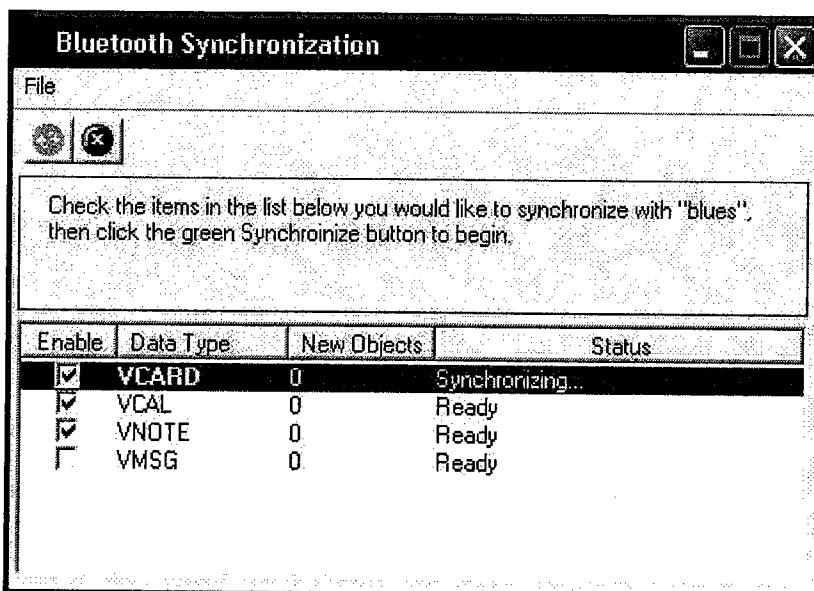
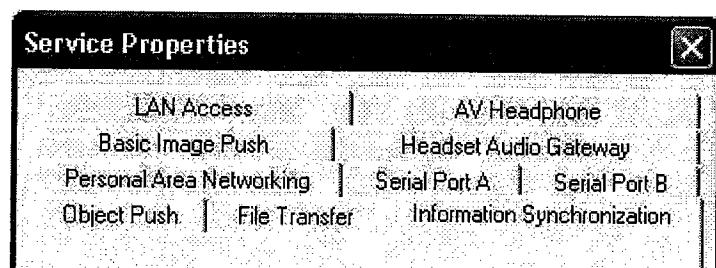


Figure 1: Start To Synchronize Information

#### Note:

- Users can start synchronization from MS Outlook using the *Bluetooth* Add-In menus and buttons installed with BlueSoleil.
- BlueSoleil can act as synchronization server. Click **My Services | Properties**. Click on the **Information Synchronization** tab (Figure 2), and select the type of PIM objects that you would like to synchronize.



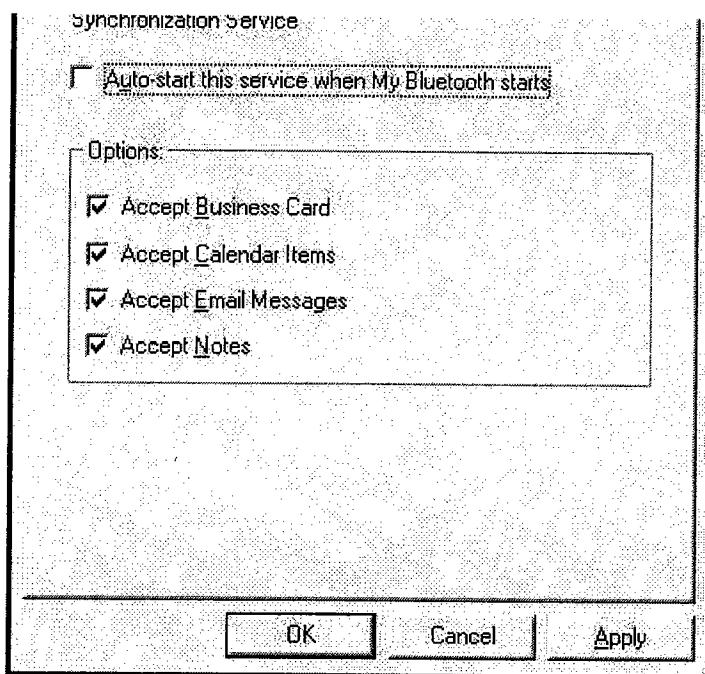


Figure 2: Service Configuration

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### See Also

[Start Bluetooth](#)   [Establish Bluetooth Connection](#)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

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## Bluetooth USB Dongle

Simple, Convenient, Stylish

Following the fashion design of Blueman's style, this Bluetooth USB dongle not only can connect through an available USB port to seamless connectivity with other Bluetooth devices but also can be hanged as a fashion adornment to show your personal style.

Based on Bluetooth 1.2 specification, supports Windows XP/2000/Me/98SE and enhances the PCs and laptops compatible with other Bluetooth enabled devices, such as PDAs, printers, cellular phones, computers, and other emerging electronic devices.

Enjoy the convenience of a wireless connectivity in 30 meters range by using this stylish Bluetooth Dongle.

### Features :

Thin, Minimal weight and compact design.

Full speed Class 2 Bluetooth operation in 30 meters

Support Audio Gateway

Support 128 bit data Encryption

Providing Data Access Via USB Interface

WIN98SE/ME/2000/XP OS support

File Transfer Support and LAN Access profile

Easily create a small network with up to 7 Bluetooth products

### Specifications:

General	Supports up to 7 slave devices
BT Version	Bluetooth cordless technology v1.2
USB Interface	USB 1.0
Dimension L x W x H	
Weight	7-8 g
Range	30 meters
Frequency	2.4GHz~2.4835GHz ISM Band
Connection	Point to point
Audio Codec	15 bits resolution, SNR: 60dB
Security	128 bits encryption
Power Consumption	<ul style="list-style-type: none"><li>Max 33mA in transmit mode</li><li>Max 38mA in receive mode</li><li>Max 259mA in sleep mode</li></ul>
Operating Voltage	5VDC +/- 10%
Transfer Rates (Max)	<ul style="list-style-type: none"><li>723Kbps Asymmetrical</li><li>433.9Kbps Symmetrical</li></ul>
Antenna	0dBi On-Board
Operating Temperature	(-10 ~ 55 C)
Storage Temperature	(-20~ 60 C)
Humidity	10% ~ 90%
System Requirements	<p>For Windows Computers</p> <ul style="list-style-type: none"><li>Windows XP/2000/Me/98se with USB Support</li><li>One Available USB Port</li><li>CD-ROM Drive</li></ul>