C&G BlueSoleil™
User's Guide

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1 Introduction to BlueSoleil™

BlueSoleil™ is a Windows-based software created by IVT Corporation that allows your *Bluetooth*® enabled desktop or notebook computer to wirelessly connect to other *Bluetooth* enabled devices. BlueSoleil allows Microsoft 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. Platforms supported by BlueSoleil include: Windows 2000 and XP.

1.1 *Bluetooth* Functions

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	√	√
* Only one Headset or AV Headphone connection can exist at a time since there is only one virtual *Bluetooth* audio device.		

1.2 Main Window

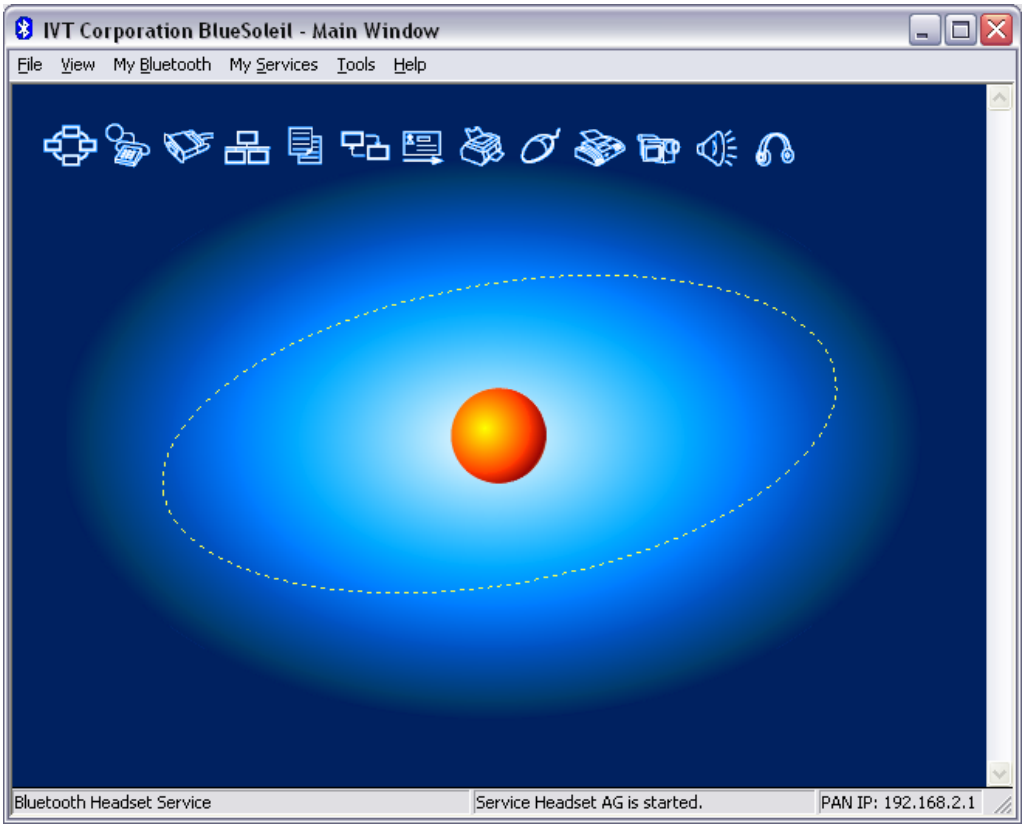


Figure 1: BlueSoleil Main Window

Note: For more complete information about the Main Window (including icon definitions) as well as information about the Service Window and BlueSoleil menus, please refer to *Chapter 4, BlueSoleil User Guides*.

By default, BlueSoleil starts with the Main Window open. Use the Main Window to perform your primary connection operations. The Main Window displays the local device (red ball) as well as the remote devices detected in range. Different icons distinguish different types of remote devices.

At the top of the Main Window are Service Buttons. Double-clicking on a remote device icon will begin a search and its supported services will show as highlighted Service Buttons.

1.2.1 Local Device — Basic Operations

- Hover your mouse over the red ball to display the local device's *Bluetooth* name and address.
- 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.).

1.2.2 Remote Devices — Icon Meanings

- White — Idle. The normal state of the device.
- Yellow—Selected. You have selected the device.
- Green — Connected. The device is connected to your local device.

1.2.3 Remote Devices — Operations

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

1.2.4 Services — Icon Meanings

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

1.2.5 Services — 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.

2 Basic Operations

2.1 BlueSoleil Installation

IMPORTANT! If you have any Windows 2000 or XP *Bluetooth* software previously installed on your computer, you must completely remove it before installing BlueSoleil.

If DigiAnswer is installed on your computer, run the Scrubber.exe located on the CD. It will remove all DigiAnswer artifacts which would interfere with BlueSoleil functionality.

2.1.1 Socket *Bluetooth* USB Adapter

IMPORTANT! Install the BlueSoleil software BEFORE you plug the Socket *Bluetooth* USB Adapter in your system's USB port!

1) Insert the BlueSoleil software installation disc into the CD drive of your computer.
2) Use My Computer or Windows Explorer to access the CD contents. Double-click on SETUP.EXE.
3) The Choose Setup Language screen will appear (*Figure 2*). Choose the default language, English, by clicking the OK button.

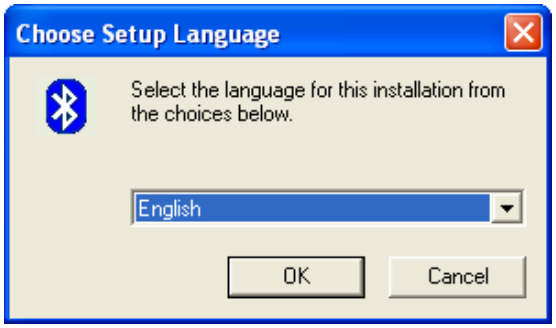


Figure 2: Choose Setup Language

NOTE: only the English version of BlueSoleil software is supported.

4) Follow the directions on your screen to install the software.
5) As prompted when software installation is complete, restart your computer.
6) Insert the USB adapter into the USB port of your computer. The Found New Hardware Wizard will automatically launch:

Figure 3: Found New Hardware Wizard

7) Make sure the installation CD is still in your computer and follow the wizard to install the USB adapter drivers.

2.1.2 Socket CF *Bluetooth* Card

IMPORTANT! Plug the CF *Bluetooth* card into your system BEFORE you install the BlueSoleil software!

1) Insert the BlueSoleil software installation disc into the CD drive of your computer. Plug the CF card into the CF or PC Card slot of your computer.

2) If the CF card has not been previously installed, the New Found Hardware Wizard will launch; follow the wizard to install the CF card.

3) With the CF *Bluetooth* Card plugged in and the hardware recognized by your system, use My Computer or Windows Explorer to access the CD contents. Double-click on SETUP.EXE.

4) The Choose Setup Language screen will appear (*Figure 4*). Choose the default language, English, by clicking the OK button.

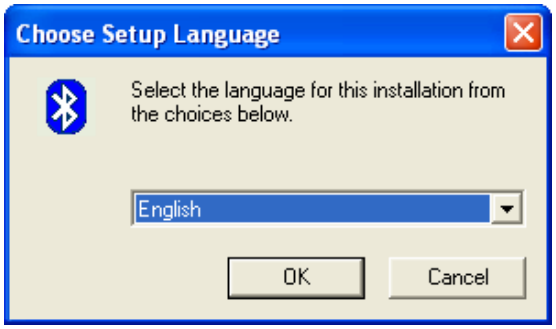


Figure 4: Choose Setup Language

NOTE: only the English version of BlueSoleil software is supported.

5) Follow the directions on your screen to install the software.

6) As prompted when software installation is complete, restart your computer.

You can also plug in the CF *Bluetooth* Card into your system AFTER BlueSoleil has been installed. If the CF card has not been previously installed on your system, the Found New Hardware Wizard will automatically launch.

1) Make sure the installation CD is still in your computer and follow the wizard to install the CF card drivers.

2) After the Found New Hardware Wizard has successfully completed, you must pull the CF card out of the slot and re-insert it in order for it to be recognized by your system.

2.2 Start BlueSoleil

1) To start BlueSoleil, click on the BlueSoleil icon on your desktop or go to Start | Programs | IVT BlueSoleil | BlueSoleil.

NOTE: BlueSoleil will detect each insertion or removal of the USB adapter or CF card. Alternatively, you can start BlueSoleil before plugging in the USB adapter or CF card.

2) The first time you use BlueSoleil, the Welcome to Bluetooth screen will appear. Assign your Windows system a name and device type which will be visible to other *Bluetooth* enabled devices. In most cases, you should leave the security setting checked. Click OK.

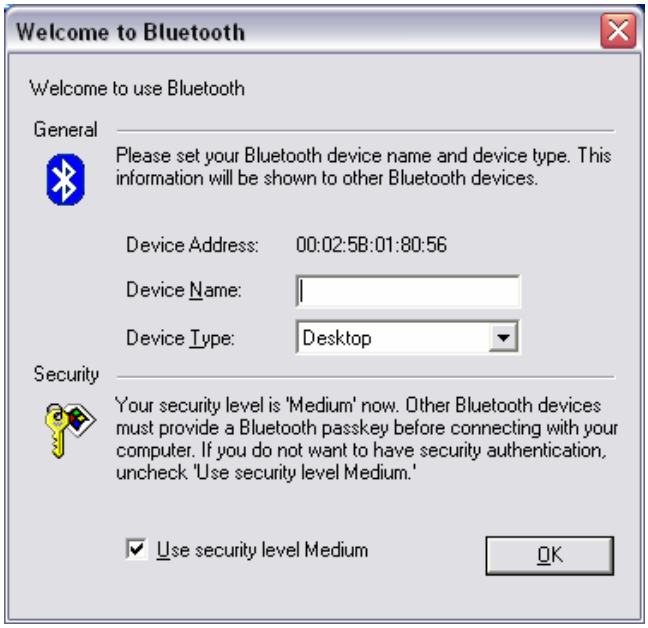


Figure 5: Welcome to Bluetooth

2.3 Search for Other *Bluetooth* Enabled Devices

Before it can connect, your computer must first detect other *Bluetooth* enabled devices in range.

Initiate a Device Search

1) Make sure that the *Bluetooth* enabled device you wish to connect to is turned on, has sufficient battery power, and is set in discoverable mode. Have device passkeys ready. If necessary, you may also need to enable the service you want to use on the remote device. Refer to the remote device's user documentation for instructions.

If you haven't done so already, you may also want to assign the device a *Bluetooth* name. Refer to the device's user documentation for instructions.

2) In the Main Window, click on the red ball to start the device search. Alternatively, you can click My Bluetooth | My Device Inquiry or View | Refresh Devices or press F5.

3) After a few seconds, an icon will appear around the center ball for each *Bluetooth* enabled device detected within the radio range.

NOTE:

- The Main Window can display only eight discovered devices at a time. If BlueSoleil discovers more than eight devices, use the mouse scroll button or scroll bar on the right side of the Main Window to view the remaining devices discovered by BlueSoleil.

- To sort the devices by device name, device address, or device type, click View | Arrange Devices.

4) Wait several seconds until BlueSoleil reports the name of each device.

5) If the device you want is not listed, make sure that the device is turned on and discoverable and try searching again. You have multiple options for starting another search:

- If you start another search by double-clicking on the red ball or clicking My Bluetooth | My Device Inquiry or View | Refresh Devices, then the list of previously detected devices will not be cleared.
- If you start a new search by pressing F5, then the list of previously detected devices will be cleared.

2.4 Establish Connection

NOTE: These are generic instructions for any type of *Bluetooth* enabled device. Refer to the instructions in *Chapter 3, Bluetooth Profiles* for specific details for the type of service you plan to use.

Normally, a connection is initiated from the client. On the server side, start the service; on the client side, initiate the connection.

2.4.1 Start the Service

If you would like to use your computer as a server in a *Bluetooth* connection, you must first start (enable) the appropriate service(s) on your system.

1) Access the Service Window. Click View | Service Window.

2) If the icon for a service is highlighted (yellow), the service has already been started. If the icon is white, then you need to start the service in order to use it; right-click the icon. In the pop-up menu, select Start Service. The icon should now be highlighted (yellow). Serial Port icons will also report which COM port is assigned to them.

NOTE: Icons will appear only for *Bluetooth* functions (profiles) which BlueSoleil supports in the Server device role. See the chart in *Chapter 1.1, Bluetooth Functions*. Depending on your system, multiple icons for Serial COM ports may appear.

After you have started the service in BlueSoleil, now you are ready to initiate the connection from the remote device. For instructions, refer to the user documentation for the remote device.

2.4.2 Initiate the Connection

If you would like to use your computer as a client in a *Bluetooth* connection, make sure that you have started (enabled) the service on the remote device. Otherwise, BlueSoleil will not be able to discover the service and connect to it. For instructions, refer to the device's user documentation.

1) Return to the Main Window. Click View | Main Window.

2) Double-click on the icon for the device you wish to connect to. BlueSoleil will begin to search for information about which services the device supports.

3) After the search, icons will be highlighted (yellow) at the top of the BlueSoleil Main Window for services that are supported by the device. Verify that the service you want to use is supported.

4) Right-click on the device icon. In the pop-up menu, click Connect, then select the service. BlueSoleil will start the connection. Depending on the security settings of each device, you may need to enter the same passkey on each device in order to bond the two devices.

5) A screen may appear asking if you want to set up automatic connections. Click Yes or No.

6) If you are connecting to a phone, your phone may ask if you want to ask the BlueSoleil computer to your device list. Enter Yes and enter a passkey.

7) When the devices have successfully connected, the device icon in the Main Window will turn green, and a green line will appear between the red ball and the device icon. A red dot will travel along the green line from the client to the server. A signal strength icon will also appear next to the device icon.

   The BlueSoleil icon in the task tray will also turn green to indicate an active connection.

   NOTE: A red check mark will appear next to the name of any device that you have previously paired with your computer.

8) Depending on which services you are using, additional screens may appear, and/or you may need to configure additional connection settings (e.g., user name, password, COM port number, etc.). Refer to the instructions in *Chapter 3, Bluetooth Profiles* for your specific service. After configuring the appropriate connection settings, you should be ready to use your application.

9) To end a connection in the Main Window, right-click on the icon for a connected device. In the pop-up menu, click Disconnect.

   NOTE: You can only disconnect this way if your computer is acting as a client device. If your computer is acting as a server device, then you can disconnect in BlueSoleil by clicking View | Service Window, then right-clicking on the service icon. In the pop-up menu, click Stop Service. Alternatively, you can disconnect from the remote device.

2.5 *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.

3 *Bluetooth* Profiles

3.1 Basic Imaging

Device Roles: Client, Server

The Basic Imaging Profile (BIP) enables users to receive pictures from a *Bluetooth* enabled 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 -

Step 1: Connect to the camera following the directions in *Chapter 2.4, Establish Connection*. A *Bluetooth* Camera Controller will appear (*Figure 6*).

Figure 6: BIP - *Bluetooth* Camera Controller

Step 2: Click the button to capture the image. The captured image will be transmitted to your computer and displayed.

Receive Pictures -

Step 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.

Step 2: Start the BIP service following the directions in *Chapter 2.4, Establish Connection*.

Step 3: Send pictures from the remote device. For instructions, refer to the user documentation for the remote device.

3.2 Dial-up Networking

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

Typical Usage

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

Figure 7: Dial-up Networking

Dial-up to the Internet via a Bluetooth enabled mobile phone -

Step 1: Connect to the phone's Dial-Up Networking Service following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: The Dial-Up Dialog will appear (*Figure 7*). 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).

NOTE: After you successfully connect, you can also select Save Connection As Shortcuts to create a desktop dial-up shortcut. This would allow you to conveniently dial up and connect by simply clicking on the shortcut, without having to manually start BlueSoleil.

Dial-up to the Internet via a Bluetooth enabled modem -

Step 1: Connect to the modem's Dial-Up Networking Service following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: The Dial-Up Dialog will appear. Enter the dial-up number, User name, and Password. Enter the correct dial-up number, then click on the Dial button.

NOTE: The default dial-up number *99***1# does NOT work with modems. You need to enter the correct dial-up number for your Internet Service Provider (ISP).

Step 3: Use your email, Internet browsing or other application that utilizes a dial-up connection.

3.3 FAX

Device Role: Client

The *Bluetooth* Fax Profile enables users to send faxes 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 a Bluetooth enabled mobile phone -

Step 1: Connect to the mobile phone's fax service following the directions in *Chapter 2.4, Establish Connection*.

Step 2: Use your fax software to send the message.

Send fax via a Bluetooth enabled modem -

Step 1: Connect to the modem's fax service as described in *Chapter 2.4, Establish Connection*.

Step 2: Start your fax software. Configure your fax software for the *Bluetooth* Fax Modem (NOT the *Bluetooth* Modem). Refer to your fax software's user documentation for instructions.

Step 3: Use your fax software to send the message.

3.4 File Transfer

Device Roles: Client, Server

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 Mobile Phone -

Step 1: Connect to the mobile phone's FTP service following the instructions in *Chapter 2.4, Establish Connection*.

Step 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 -

Step 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.

Step 2: Start the FTP service in BlueSoleil following the instructions in *Chapter 2.4, Establish Connection*. Do not initiate the connection in BlueSoleil.

Step 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.

Step 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 -

Step 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.

Step 2: Start the FTP service and initiate the connection in BlueSoleil following the instructions in *Chapter 2.4, Establish Connection*.

Step 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.

3.5 Headset

Device Roles: Client, Server

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

Typical Usage

Use Headset as a device for audio input/output:

Step 1: Connect to the *Bluetooth* enabled headset following the directions in *Chapter 2.4, Establish Connection*.

Step 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.

3.6 Human Interface Device

Device Role: Server

The *Bluetooth* Human Interface Device (HID) Profile enables users to use *Bluetooth* enabled HID Devices such as keyboards, mice or joysticks to control your computer.

Typical Usage

Connect a *Bluetooth* enabled Mouse and a Keyboard to Your Computer

Step 1: Connect the *Bluetooth* enabled mouse to your computer following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: Connect the *Bluetooth* enabled keyboard to your computer following the instructions in *Chapter 2.4, Establish Connection*. Before you can use BlueSoleil to connect, you may need to press a button on the keyboard to make it discoverable.

NOTE: The first time you connect the mouse or keyboard to your computer, the Found New Hardware Wizard will automatically launch. In the first screen of the wizard, DO NOT INSERT ANY CD and click Next. Follow the next screens until you complete the wizard. If the wizard reappears, cancel the wizard. You should be able to use the mouse or keyboard with your computer. The *Bluetooth* enabled mouse/keyboard can automatically re-connect to your computer after you successfully establish the initial connection.

3.7 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

- Access a Local Area Network 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) -

Step 1: Connect to the LAN AP's LAP service following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: In the Connect Bluetooth LAP Connection dialog, enter the user name and password if necessary. Click Connect.

Use your computer as a LAN Access Point (ADVANCED USERS ONLY) -

Step 1: Start the *Bluetooth* LAN Access service on BlueSoleil following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: Specify any static IP addresses necessary for LAP clients (alternatively, you can use DHCP to have the system dynamically assign IP addresses).

In the Network Connections window, right-click Incoming Connection, then select Properties (*Figure 8*).

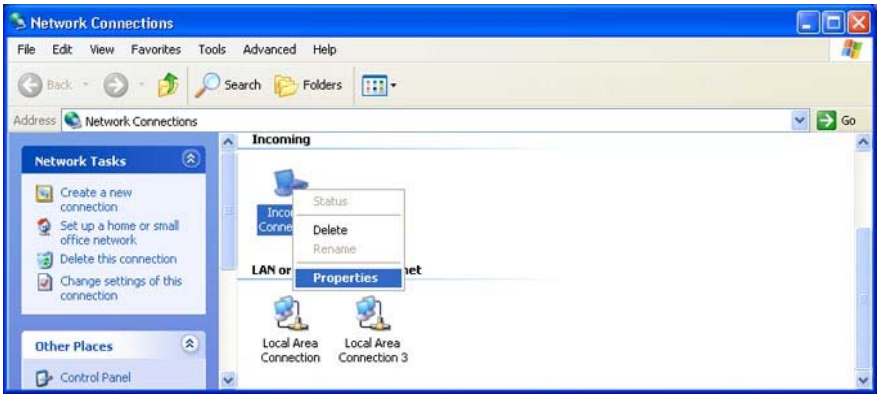


Figure 8: Network Connections

Select Incoming Connections Properties | Networking -> Internet Protocol (TCP/IP), and click on the Properties button. (*Figure 9*)

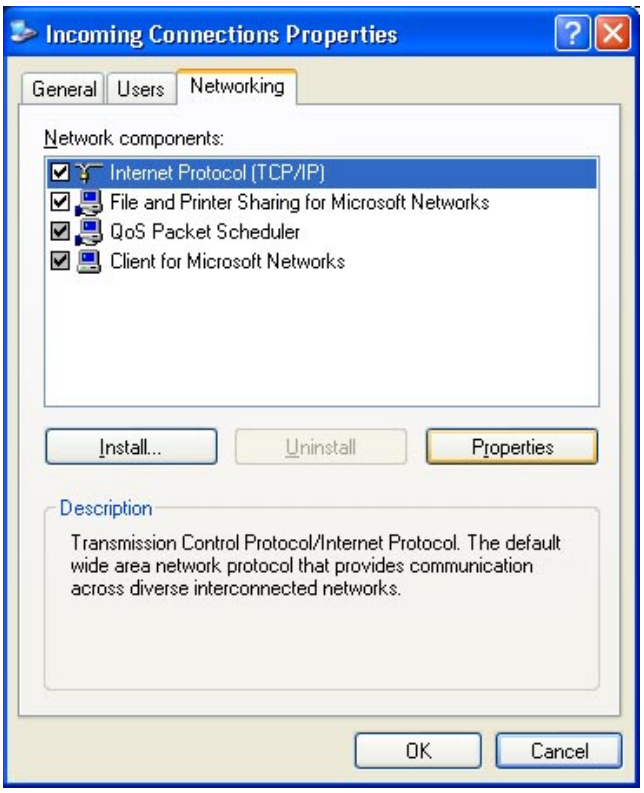


Figure 9: Incoming Connections Properties

Select Specify TCP/IP addresses and enter the range of IP addresses assigned to LAP clients (*Figure 10*).

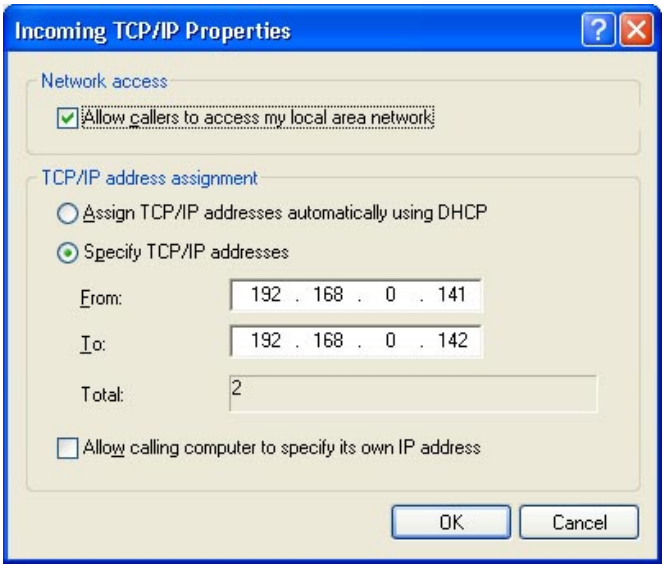


Figure 10: Incoming TCP/IP Properties

3.8 Object Push

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

The objects supported include:

- Contacts (*.vcf)
- Calendar items (*.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* Enabled Mobile Phone -

There are two methods to push objects:

Method 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 11*)

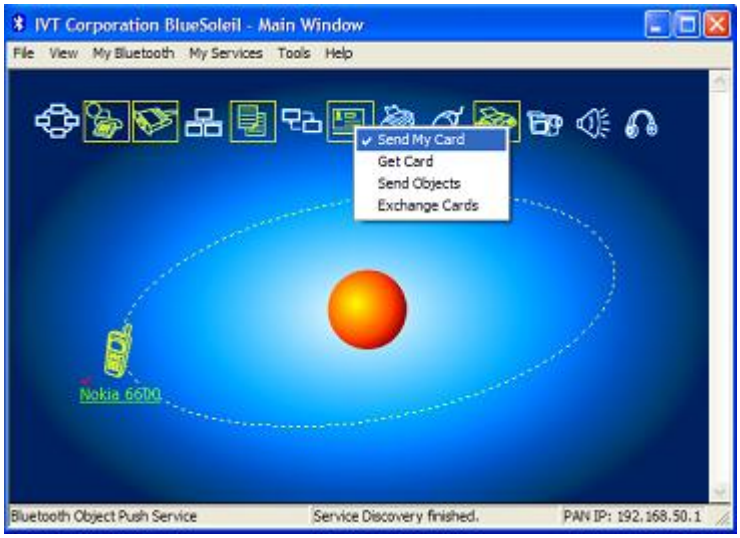


Figure 11: Object Push – Send Object

Send My Card: send your default business card.

Get Card: get the phone's default business card.

Send Objects: select objects (PIM files ending in .vcf, .vcs, .vnt, or .vmg) and send them to the phone.

Exchange cards: have your computer and the phone to exchange their default business cards.

Method 2: From Microsoft Outlook:

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

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

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

Receive Objects from a *Bluetooth* Enabled Mobile Phone -

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

Step 2: Start the Object Push service following the instructions in *Chapter 2.4, Establish Connection*. Do not initiate a connection, only start the service so

that your computer will be ready to receive objects.

Step 3: Send objects from the phone. For instructions, refer to your phone's user documentation.

NOTE:

- 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.

3.9 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.

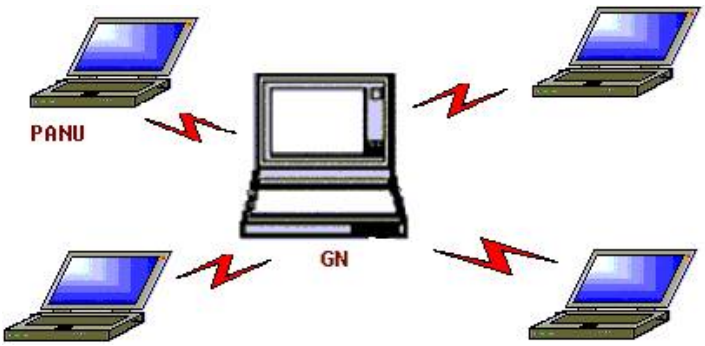


Figure 12: Group Ad-hoc Network

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.

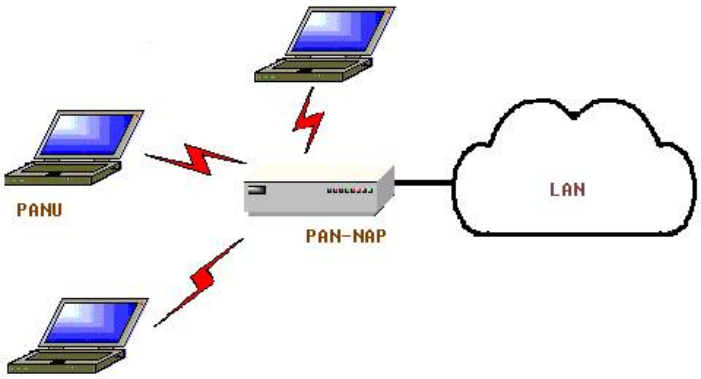


Figure 13: Access a LAN via PAN-NAP

Access a LAN via PAN-NAP -

Connecting the PAN User (PANU)

Step 1: Connect to the server's Personal Area Network service following the instructions in *Chapter 2.4, Establish Connection*.

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

Configuring the NAP/GN -

Click My 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 14*).

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 *Bluetooth* Network Adapter.

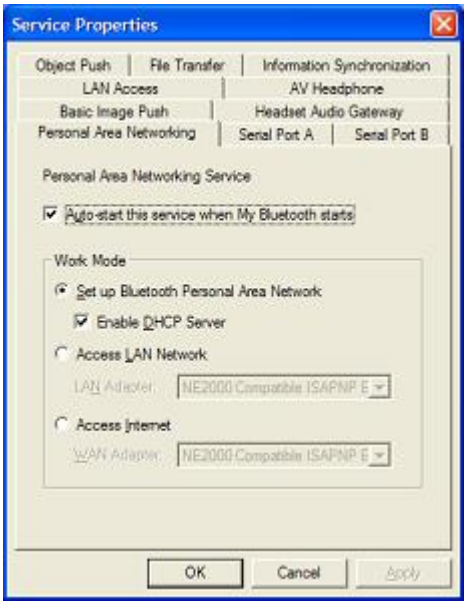


Figure 14: Setting up a Bluetooth Enabled PAN

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 15*).

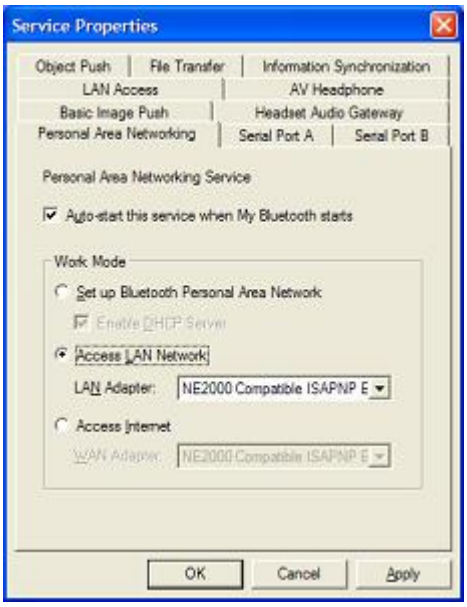


Figure 15: Accessing a LAN Network via a PAN-NAP

Scenario 3 Access the Internet via NAP:

Select Access Internet and select a physical network adapter, through which the NAP connects to Internet, as the WAN Adapter (*Figure 16*). 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 192.168.50.xxx, such as 192.168.50.1.

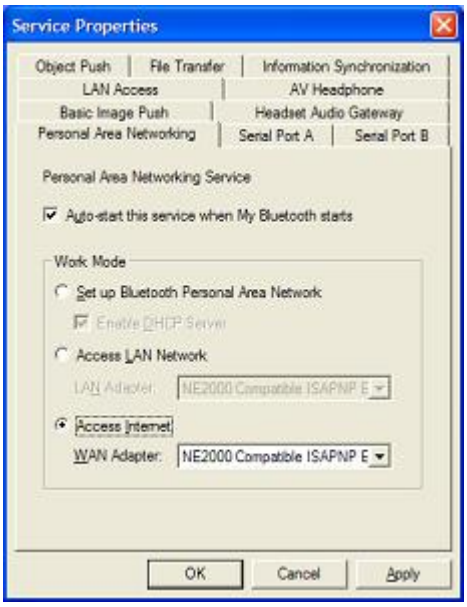


Figure 16: Accessing the Internet via a NAP

3.10 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 with a serial cable.

BlueSoleil supports four *Bluetooth* Serial Ports for outgoing 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 -

Step 1: Connect to the PDA's Serial Port service, following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: Use ActiveSync or any other application 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), BlueSoleil will automatically connect to the target device whenever an application opens that serial port number. 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.

3.11 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 MS Outlook versions: Outlook 2000, Outlook 2002 (XP) and Outlook 2003.

Typical Usage

Synchronize your computer with a *Bluetooth* enabled mobile phone

Step 1: Connect to the mobile phone's Synchronization service, following the instructions in *Chapter 2.4, Establish Connection*.

Step 2: A synchronization dialog will appear (*Figure 17*). Click on the Start button to synchronize. Contacts, calendars, notes and emails in MS Outlook will be synchronized with those on the phone.

Figure 17: Bluetooth Synchronization

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, and select the type of PIM objects that you would like to synchronize.

4 BlueSoleil User Guides

4.1 BlueSoleil Environment

4.1.1 Main Window

The Main Window displays the local device (red ball) and the remote devices detected in range. Connecting and disconnecting operations are conducted here. Connections are indicated by green dashed lines between the local device and connected remote devices.

By default BlueSoleil starts with the Main Window open. To return to the Main Windows after switching views, click View | Main Window.

Figure 18: Local Bluetooth Device - My Device

Local *Bluetooth* Device

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

Operations

1) Hover your mouse over the red ball to display the local device's *Bluetooth* name and address.
2) Click on the red ball to start or stop searching for *Bluetooth* devices in range.
3) Right-click on the red ball to display a pop-up menu of related operations (e.g., General Inquiry, My Services, Security, etc.).

Remote *Bluetooth* Devices

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

Personal Computer		Laptop	
Modem		Mobile Phone	
PDA		LAN Access Point	
Keyboard		Mouse	
Microphone		HiFi Audio	
Loud Speaker		Headset	

Printer		Scanner	
Fax		Camera	
Game controller		Server	
Unknown device			

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 supported by the remote device.
- Right-click on the icon to display a pop-up menu of related operations (e.g., Refresh Devices, Pair Devices, Connect, etc.).

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.

PAN		DUN	
SPP		LAP	
FTP		SYNC	
OPP		HCRP	
HID		FAX	
BIP		AV	
Headset			

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

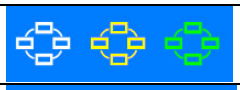
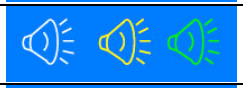
- Hover your mouse over the service icon to display the name of the service.
- Single-click on the service icon to connect.
- Right-click on the service icon to display a pop-up menu of related operations.

4.1.2 Service Window

The Service Window displays the local *Bluetooth* services, (i.e., the *Bluetooth* services supported by BlueSoleil). Use the Service Window to start and stop services, as well as to configure service properties. To access the Service Window, click View | Service Window.

Local Service List

The Local Service List displays all of 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	
AV		BIP	
Headset AG			

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.

4.1.3 Menus

BlueSoleil contains the following six menus:

- File Menu
- View Menu
- My *Bluetooth* Menu
- My Services Menu
- Tools Menu
- Help Menu

4.1.3.1 File Menu

Hide: hide the BlueSoleil window. Connections can still run when the window is hidden.

Always on Top: keep the BlueSoleil window always on top.

Exit: exit BlueSoleil. 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.

4.1.3.2 View Menu

Main Window: show the BlueSoleil Main Window.

Service Window: show the BlueSoleil Service Window.

Arrange Devices: arrange 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.

4.1.3.3 My Bluetooth Menu

***Bluetooth* Device Inquiry**: search for other *Bluetooth* enabled devices in range.

***Bluetooth* Service Browsing**: browse for the services of the selected remote device.

Security: configure the security settings of the local device (e.g., passkey requirements, data encryption, etc.).

Device Properties: configure the properties of the local device (e.g., device name, accessibility, etc.).

4.1.3.4 My Services 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.).

4.1.3.5 Tools Menu

My *Bluetooth* Shortcuts: display dialog My Bluetooth Shortcuts.

1) Connect: connect the selected shortcut.
2) Delete: delete the selected shortcut.

Find Device: click to find a device, by either of two search criteria:

1) 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.
2) By Name: Check the By Name box, 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.

Add New Device: add a remote device by entering its *Bluetooth* device address.

Add Device From History: add a remote device from the history list.

1) Add: add the selected device.
2) Delete: clear the selected device from the history list.

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

1) Assign: assign a device to the selected port.
2) Remove: remove the Auto-Connection device assignment for the selected port.

Configurations-> Unplug HID: remove Human Interface Devices from BlueSoleil.

1) 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.

My *Bluetooth* Device: advanced hardware configuration, recommended for advanced users only. Please refer to 4.2 Hardware Configuration for more details.

4.1.3.6 Help Menu

Contents and Index: access BlueSoleil Online Help.

About BlueSoleil: information about your version of BlueSoleil.

4.2 Device Configurations

4.2.1 Hardware Configuration

BlueSoleil supports the following kinds of *Bluetooth* radio adapters: USB and CF card.

To access the hardware configuration screens, click Tools | My Bluetooth Device...,

***Bluetooth* Device**: select the type of *Bluetooth* enabled device you plan to use, either a USB adapter or a CompactFlash (CF) card.

Advanced Configuration: the Advanced Configuration page will be enabled only if you selected CF in the *Bluetooth* Device screen. Use the Advanced Configuration screen to configure detailed parameters including COM Port, Baud Rate, Byte Size, Parity, Stop Bits, and Flow Control.

4.2.2 Properties Configuration

To configure the properties of your local device, click My Bluetooth | Device Properties...,

4.2.2.1 General

Device Name: the local device's name, which will be shown to other *Bluetooth* enabled devices.

Device Type: the device type of your local computer, (i.e., Desktop, Laptop or Server).

Device Address: the address of the local device. Every *Bluetooth* enabled device has a unique device.

4.2.2.2 Accessibility

Connecting Mode

1) Connectable: Permits other *Bluetooth* enabled devices to connect with your computer.
2) Non-Connectable: Prohibits other *Bluetooth* enabled devices from connecting with your computer.

Discovery Mode

1) General Discoverable: permits other *Bluetooth* enabled devices to detect your computer.
2) Limited Discoverable: permits other *Bluetooth* enabled devices to detect your computer with Limited Inquiry.
3) Non-Discoverable: prohibits other *Bluetooth* enabled devices from detecting your computer.

Bonding Mode (Pairing Mode)

1) Accepts Bonding: allow other *Bluetooth* enabled devices to pair with your computer. If the other device initiates a pairing procedure with your computer, each device must enter the same passkey before they will be paired.
2) Does Not Accept Bonding: rejects pairing attempts initiated by other *Bluetooth* enabled devices.

Hardware

View information about your *Bluetooth* hardware.

1) Manufacturer: The manufacturer of the local *Bluetooth* device.
2) HCI Version: The HCI version of the local *Bluetooth* device.
3) HCI Edition: The HCI edition of the local *Bluetooth* device.
4) LMP Version: The LMP version of the local *Bluetooth* device.
5) LMP Subversion: The LMP subversion of the local *Bluetooth* device.

4.3 Security Configuration

Use the Security Configuration screens to specify the security settings of your local device.

4.3.1 Pair / Unpair Devices

Once a remote device has paired with your computer by exchanging passkeys, passkeys will no longer be required for further connections between your computer and the device.

4.3.1.1 How to Pair with Another Device

Automatically: If a passkey is required for connection, the devices will be paired automatically the first time they successfully exchange passkeys and connect. After a device has successfully paired with your computer, the remote device icon in the Main Window will have a red checkmark next to it.

Manually: In the Main Window, right click on the device icon, and in the pop-up menu, select Pair Device. In the Enter *Bluetooth* Passkey screen, enter the same passkey that you enter on the remote device. After a device has successfully paired with your computer, the remote device icon will have a red checkmark next to it.

4.3.1.2 How to Unpair with Another Device

In the Main Window, right-click on the device icon and in the pop-up menu, select Unpair. The red checkmark next to the device icon will disappear.

4.3.2 General Security

To access the security configuration screen, click My Bluetooth | Security...

Security Level

Low: if checked, other devices will be able to access your device freely without entering a passkey. However, if the remote device requires a passkey to connect, then both devices need to exchange passkeys.

Medium: the medium level provides service level security. You can assign the appropriate level of access for each specific service. For more details, see *Chapter 4.3.4, Local Services Security*.

High: if checked, passkeys must be exchanged for every incoming and outgoing connection, unless the two devices have already paired in the past.

Bluetooth Passkey

Set Default Passkey: use this setting to create a default passkey for all connections. This saves you the effort of manually creating a passkey whenever one is required.

Data Encryption

Enable Data Encryption: if checked, the data transmitted will be encrypted.

4.3.3 Managing Device Pairings

To access the device security configuration screen, click My Bluetooth | Security and click on the Devices tab.

Paired Devices: this screen lists devices which have already paired with the local device.

Remove Pairing: click to remove the pairing relationship between the selected device and the local device.

Authorization: click to select the local *Bluetooth* services that you wish to allow the selected paired device to use. A list of local services will appear. Select the services and then click OK.

NOTE: The screen will only list the local services that require authentication. The local services that do not require authentication can be accessed freely. The Authorization button is enabled only when the Security Level is set to Medium.

4.3.4 Local Services Security

To access the local services security configuration screen, click My Bluetooth | Security and click on the Services tab. You can only configure security for local services when the Security Level is set to Medium. (set the Security Level in the General Security screen.)

<u>Local Services</u>

Authentication: if checked, a passkey is required whenever a remote device attempts to connect with this service.

Encryption: if checked, data transmitted between devices for this service will be encrypted.

Authorization: click to select the devices you wish to allow to use the selected service.

Service Authorization

In the Service Authorization screen, enter the following settings:

Trusted Devices: select to trust devices listed in this screen to use the selected service on your device. A device can freely access the service from your local device when trusted. Click Add/Remove to edit the device list.

Trust all devices: connection requests will be accepted from every device.

Prompt user if the device is not trusted for this service: if a non-trusted device attempts to access the service, a dialog will appear to allow you to accept or reject the connection.

Reject devices from using the service if not trusted for the service: if a non-trusted device attempts to access the service, the connection will be rejected automatically without informing the user.

NOTE: if a device is trusted for a service, it may connect to this service on your local device without informing you.

5 Safety and Usage Tips

About *Bluetooth* and Health

Bluetooth wireless technology allows you to use short-range radio signals to connect a variety of devices, such as mobile phones, Pocket PCs, notebook computers, printers, LAN access points, and many other devices at home or work. These radio signals replace the cables that have traditionally connected these devices.

Bluetooth enabled products have small radio transmitters and receivers. Output power is normally very low, only 1 mW (1/1000 of a watt). This gives a working range of approximately 10 meters.

The maximum exposure levels from *Bluetooth* enabled products are far below recommended safety guidelines. At most, typical *Bluetooth* enabled devices (1 mW) reach only one percent of the prescribed safety levels.

Product Care

- Do not expose your product to liquid, moisture or extreme humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not expose your product to lit candles, cigarettes, cigars, open flames, etc.
- Do not drop, throw or try to bend the product, as rough treatment could damage it.
- Do not paint your product, as the paint could obstruct parts and prevent normal use.
- Do not attempt to disassemble your product: a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Should your USB Adapter or CompactFlash card need service, please contact Socket technical support at: support@socketcom.com.
- Treat your product with care. Keep in a clean and dust-free place.
- Changes or modifications of this product, not expressly approved by Socket, may void the user's authority to operate the equipment.

Antenna Care

Do not place a metallic shield around your adapter or card since it will reduce the radio transmission efficiency.

Efficient Use

For optimum performance, please make sure that there is no metal surrounding your adapter or card.

Driving

RF energy may affect some electronic systems in motor vehicles, such as car stereo, safety equipment, etc. Check with your vehicle manufacturer's representative to be sure that your adapter or card will not affect the electronic system in your vehicle.

5 – Safety and Usage Tips

Aircraft

- Turn off your card antenna before boarding any aircraft.
- To prevent interference with communications systems, you must not use your adapter or card while the plane is in the air.
- Do not use it on the ground without permission from the crew.

Radio Frequency Exposure

Your USB Adapter/CompactFlash card is a radio transmitter and receiver. When in operation, it communicates with a *Bluetooth* enabled mobile phone, mobile computer or other device by receiving and transmitting radio frequency (RF) magnetic fields in the frequency range 2400 to 2500 MHz. The output power of the radio transmitter is 0.001 Watt.

The USB Adapter/CompactFlash card unit is designed to be in compliance with the RF exposure limits set by national authorities and international health agencies[1] when installed or used separately from other antennas or radio transmitters.

[1] Examples of RF exposure standards and guidelines:

ICNIRP, "Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)", International Commission on Non-Ionizing Radiation Protection (ICNIRP), Health Physics, vol. 74, pp 494-533, April 1998.

99/519/EC, EU Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz – 300 GHz, Official Journal of the European Communities, July 12, 1999.

ANSI/IEEE C95.1-1992, "Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz", The Institute of Electrical and Electronics Engineers, Inc., New York, 1991.

FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), August 1996.

Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), May 1999.

6 Technical Support

If you have trouble installing or using the USB Adapter or Connection Kit with *Bluetooth* Wireless Technology, Socket has two technical support resources you can use:

6.1 Socket On-Demand Support (SOS)

Socket On-Demand Support provides the quickest turnaround time and is the best place to start for technical support. Because it's interactive, this virtual technical support assistant focuses in on your specific problem to provide the specific answers you need. To access Socket On-Demand Support, please visit: www.socketcom.com/support and click on the SOS icon.

If SOS cannot answer your inquiry, you will have the opportunity to submit your question(s) to a technical support engineer after the session. Your interactive session will be saved for reference.

Note: To help expedite live tech support, you will be asked to register your product and provide some system configuration/environment information.

6.2 Live Technical Support

IMPORTANT! To obtain technical support for your product, you must first register your product online at www.socketcom.com/prodreg!

Once you have registered your product, you can contact Socket's technical support department by submitting an email inquiry through the online support system. After product registration, you will be presented with an option to 'submit a problem'. Click on this option to follow the online process to submit an email request for technical support. If we are unable to resolve your support inquiry via email, we can arrange for a technical support representative to call you at a specific time.

Please refrain from disassembling the USB Adapter or CompactFlash card. Disassembly of these devices will void the product warranty

7 Limited Warranty

Socket Communications Incorporated (Socket) warrants the product against defects in material and workmanship, under normal use and service, for the following periods from the date of purchase: Three years

Incompatibility is not a defect covered by Socket's warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by Socket's Authorized Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes Socket's property. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the duration of the original warranty period, whichever is greater.

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket.

SOCKET IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so that the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may contain fully tested, recycled parts, warranted as if new.

For warranty information, phone (510) 744-2700.

8 Limited Software Warranty

LIMITED WARRANTY. SOCKET warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

CUSTOMER REMEDIES. SOCKET'S entire liability and your exclusive remedy shall be, at SOCKET'S option, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet SOCKET'S Limited Warranty and which is returned to SOCKET with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

NO OTHER WARRANTIES. SOCKET disclaims all other warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the SOFTWARE and the accompanying written materials. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES. In no event shall SOCKET or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the SOFTWARE, even if SOCKET has been advised of the possibility of such damages. Because some states do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

EXPORT LAW ASSURANCES. You may not use or otherwise export or re-export the SOFTWARE except as authorized by United States law and laws of the jurisdiction in which the SOFTWARE was obtained. In particular, but without limitation, none of the SOFTWARE may be used or otherwise exported or re-exported (a) into (or to a national or resident of) a United States embargoed country or (b) to anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of Commerce's Table of Denial Orders. By using the SOFTWARE, you represent and warrant that you are not located in, under control of, or a national or resident of any such country or on any such list.

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9 Copyright Notice

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Feel free to contact SOCKET COMMUNICATIONS at:

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37400 Central Court
Newark, CA 94560
Phone: (510) 744-2700
Fax: (510) 744-2727

Other than the above, Socket Communications can assume no responsibility for anything resulting from the application of information contained in this manual.

Socket Communications requests that you refrain from any applications of the USB Adapter or Connection Kit with *Bluetooth* Wireless Technology that are not described in this manual. Socket Communications also requests that you refrain from disassembling the product. Disassembly of the device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting Socket's web page at: www.socketcom.com.

10 Regulatory Compliance

The Socket *Bluetooth* USB Adapter and Socket Connection Kit with *Bluetooth* Wireless Technology are designed to be compliant with the rules and regulations in locations where they are sold and will be labeled as required. These products are type approved — users are not required to obtain license or authorization before using.

The products have been certified as conforming to technological standards. Therefore, the following actions are punishable by law:

- Disassembly or modification of this product
- Removal of identification labels on the back of the product

The frequency used by these products is also used by industrial, scientific and medical devices, such as microwave ovens, as well as wireless detectors for motion detectors, such as those requiring licenses used on manufacturing lines or similar radio transmitters (all of these wireless devices will be called “other wireless transmitters” below). Most modern electronic equipment (e.g., in hospitals and cars), is shielded from RF energy. However, certain electronic equipment is not.

1) Please ensure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.

2) In the unlikely event that there is electronic interference between this system and other wireless transmitters, quickly change the location of operation or stop operating the unit (cease signal transmission).

3) If other electrical interference or related problems occur, contact Socket technical support at +1-510-744-2720.

Radio Frequency Interference Requirements

This device complies with part 15 of the FCC rules and Industry Canada RSS 210. Operation is subject to the following 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.

This equipment is also ETS EN300 328-2, ETS EN301 489-1 and ETS EN301 489-17 compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

10 – Regulatory Compliance

This equipment generates and radiates radio-frequency energy. To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: (1) Users are not permitted to make changes or modify the system in any way, and (2) connecting external antennas to the card is prohibited. This device and its antenna must not be co-located or operated with any other antenna or transmitter.

To comply with Industry Canada RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: "The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca/ehp/ehd/catalogue/rpb.htm"

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful: *How to Identify and Resolve Radio-TV Interference Problems.* This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Canada Certification

The marking of "IC: 2529A-USB1" on the CompactFlash card means: "2529A-USB1" is the certification number, and the term "IC' before the equipment certification number only signifies that Industry Canada technical specifications were met.

Radio Frequency Interference Requirements - Canada

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe B respecte toutes les exigencies du Reglement sur le Matériel Brouilleur du Canada.

NOTE: To comply with FCC and Industry Canada exposure requirements, this device is approved for operations in a user's hand when there is a distance of 20 cm or more between the device antenna and the user's body.

CE Marking & European Union Compliance

Products intended for sale within the European Union are marked with a CEMark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included: Normes (EN), as follows:

Applicable Directives:

- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC
- Low Voltage Directive 73/23/EEC

10 – Regulatory Compliance

Applicable Standards

- EN 55 022 – Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment.
- EN 50 082-1 – Electromagnetic Compatibility – General Immunity Standard, Part 1: Residential, Commercial, Light Industry.
- IEC 801.2 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 2: Electrostatic Discharge Requirements.
- IEC 801.3 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 3: Radiated Electromagnetic Field Requirements.
- IEC 801.4 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 4: Electrical Fast Transients Requirements.
- EN 60 950 + Amd 1 + Amd 2 – Safety of Information Technology Equipment Including Business Equipment.

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.

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.