# BlueSoleil™

# 10.0.492.1
# Release Note

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# 1 Introduction

This document describes IVT BlueSoleil version 10.0.492.1

# 2 Target Platform

- CPU: 600MHz or above
- RAM: 128M or above
- Screen: 800*600 or above
- Display: Adapter True Color 16bits or above
- OS: Windows XP, Windows Vista, Windows 7, Windows 8, Windows 8.1.
- Languages supported: English, Simplified Chinese, Traditional Chinese, German, Polish, Russian, Spanish, Japanese, Korean, Norwegian, Portuguese, Swedish, Italian, French, Danish, Dutch, and Finnish.

# 3 Release Functionality

## 3.1 Bluetooth Functionality

The software was written according to version 2.1+EDR of the Bluetooth Core Specification [1] and Bluetooth Profile Specification [2] and Covered Core Package version:3.0+HS [3] and Covered Core Package version:4.0 [4].

The release provides:

| **Bluetooth Profile** | | **Client / connections** | **Server / connections** |
|---|---|---|---|
| PAN | Personal Area Networking<br>Roles: Group Network/PAN User | √, 1 | √, 1+ |
| SPP | Serial Port:<br>Roles: Device A/Device B | √, 1+ | √, 1 |
| DUN | Dial-Up Networking<br>Roles: Data Terminal | √, 1+ | N/A |
| HID | Human Interface Device<br>Roles: Host | √, 1+ | N/A |
| OPP | Object Push<br>Roles: Client/Server | √, 1 | √, 1 |
| FTP | File Transfer<br>Roles: Client/Server | √, 1 | √, 1 |
| FAX | FAX<br>Roles: Data Terminal | √, 1 | N/A |
| Headset | Headset<br>Roles: Audio Gateway | √, 1 | √, 1 |

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| | | | |
|---|---|---|---|
| Handsfree | Handsfree<br>Roles: Audio Gateway | √, 1 | √, 1 |
| A2DP | Advanced Audio Distribution Profile<br>Roles: Source & Sink | √, 1 | √, 1 |
| AVRCP | Audio/Video Remote Control Profile<br>Roles: Target: | √, 1 | √, 1 |
| HCRP | Hardcopy Cable Replacement<br>Roles: Client | √, 1 | N/A |
| BIP | Basic Imaging Service<br>Roles: Image Push(Imaging Responder) | √, 1 | √, 1 |
| BPP | Basic Printing Profile<br>Roles: Sender Device (SD) | √, 1 | √, 1 |
| PBAP | Phone Book Access Profile<br>Roles: PCE | √, 1 | √, 1 |
| MAP | Message Access Profile | √, 1 | √, 1 |
| GATT | Generic Attribute Profile | √, 1+ | √, 1+ |
| FMP | Find Me Profile | Locator | |
| PXP | Proximity Profile | Monitor | |
| HTP | Health Thermometer Profile | Collector | |
| HRP | Heart Rate profile | Collector | |
| HOGP | HID OVER GATT Profile | Host | |
| DI, DID | Device Identification Profile | √, 1 | |
| ANP | Alert Notification Profile | √, 1 | |
| BLP | Blood Pressure Profile | Collector | |
| GLP | Glucose Profile | Collector | |

Note:
1. “1” means there can be only 1 connection at the same time. “1+” means there can be more than 1 connection at the same time.
2. “N/A” means it is not supported.

And:

- Supports Bluetooth 2.1+EDR.
- Supports Bluetooth 3.0+High Speed.
- Supports Bluetooth 4.0.
- Standard operating modes: page, inquiry, page-scan and inquiry-scan
- Standard USB (v1.1/2.0)
- All standard pairing, authentication, link key and encryption operations
- Master/Slave switch. This allows a device to connect itself to an established piconet

## 3.2 Installation

Preinstallation:

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- The previous version of BlueSoleil which has been installed should be uninstalled: Click Start -> Control Panel, and then choose Uninstall a program. Select BlueSoleil in the program list and uninstall it.
- Bluetooth adapter can be remained plugged or unplugged during installation.
- Users must log on as administrators to install BlueSoleil.
- BlueSoleil can only be removed from Control Panel.

Installation steps:

- Double-click setup.exe to start installation.
- Choose the setup language.
- Follow the instructions on the screen.
- Restart your computer.

Note: With regard to the installation command line, please refer to setup.ini in the installation folder for detailed instructions.

## 3.3 Extra Functionality

The build extends the standard Bluetooth functionality with the following features:

- **Contact Management**
  - Backup/restore phone's contacts on computer.
  - View phone's contacts on computer.
  - Edit/delete/upload contacts.
- **SMS**
  - Type and send SMS from your computer.
  - View/backup/delete SMS on Bluetooth phones.
- **Auto Dial-up Networking**
  - Gets service provider information from phones.
  - Sets the dial-up parameters automatically.
- Serial Number license supported.
- Send contents from web browser to Bluetooth device function supported.
- Open APIs for 3rd part.
- "Send to" function. Right-click a selected file in Explorer, to send the file to other Bluetooth devices via the "Send to" popup menu.
- "Send by Bluetooth" and "set as default" functions in Microsoft Outlook.
- "Create desktop shortcut" function. You can create shortcuts for devices and services on the desktop by right-clicking the device or service icon. The shortcut can also be created by dragging a device or a service icon and dropping to desktop.
- SPP, DUN and FAX auto connection function.
- Connects to an RFCOMM-based service with 128bits-GUID on a remote device.
- Optimized Role switch policy for various Bluetooth devices to maximize the possibility of success in creating connections.
- Dual Graphical User Interfaces for Bluetooth, Classical BlueSoleil GUI and Windows Explorer GUI.

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- Supports UART Devices.

## 3.4 Functional Restrictions

The following major functional restrictions apply to this release:

- For PAN and Headset profile, BlueSoleil cannot act as client and server at the same time.
- Supported media player by default for AVRCP

  (1) Windows Media Player version 6.4, 7, 8, 9, 10, 12.

  (2) WinAmp 2.7, 2.8, 3.0, 5.581.

  (3) Realone 6.0.x and 7.0.x (Fully tested with 6.0.11.864 and 7.0.0.2151)

  (4) ITunes Version 10.0.x and above.

  Further extension to support other media players is possible by implementing BlueSoleil standard AVRCP interfaces. (If you are interested in doing this, please contact IVT.)

## 3.5 Known Issues

| No | |
|---|---|
| 1 | Role switch sometimes would fail. |
| 2 | |
| 3 | |
| | |

## 3.6 History

The following significant changes have been made to BlueSoleil 10.0.492.1 Release since it is BlueSoleil 10.0.489.0Release:

- Remove bsmobile documents
- Add bracelet features, which can display the total number of steps and calories
- Add function :support iPhone MAP
- Add a new HardwareID
- Fixed bug :Can’t connect or pair unknown device at the first time
- Fixed bug : when use the classic interface ,it can appears BLE service.

The following significant changes have been made to BlueSoleil 10.0.489.0 Release since it is BlueSoleil 10.0.485.2 Release:

- Delete the BsMobile related files.
- Fixed bug :Tablet can’t unlock automatically when using the proximity function .
- Fixed bug :Reconnect the HID devices slowly after the computer standby .
- Fixed bug :Two icons appear after locking the computer screen
- Fixed bug :After sudden remove the unlicensed dongle, BlueSoleil will can’t turn on anymore .
- Fixed bug : when open the iTunes ,it can not sync to the AVRCP CT terminal control interface.
- Allow users not to enter the paring code when connect to an gamepad which modeled as a Bluetooth keyboard. Users can modify the configuration by setting the checkbox on the "Audio Properties" tab.

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The following significant changes have been made to BlueSoleil 10.0.485.2 Release since it is BlueSoleil 10.0.484.0 Release:

- Close the wii device switch.

The following significant changes have been made to BlueSoleil 10.0.484.0 Release since it is BlueSoleil 10.0.483.0 Release:

- Increase handling for unusual circumstances, it will Prevent to active BlueSoleil when the network is inaccessible.
- Fixed bug : Fails to set trayicon whether to display or not
- Fixed bug :The Program will crash when Print the Stack logo

The following significant changes have been made to BlueSoleil10.0.483.0 Release since it is BlueSoleil10.0.482.1 Release:

- Add gamii documents
- Using the latest drivers and protocol stacks
- Make "Next" button as default button when choose whether to install cphone during the installation time .

The following significant changes have been made to BlueSoleil10.0.482.1 Release since it is BlueSoleil10.0.479.1 Release:

- Integrate new protocol stack. Support operations for LE whitelist.
- Supports UART transmit SCO.
- Adjust logic, after SCO hang up ,it won't initiative to send play command to the mobile phone .
- Adjust the logic when the two phones connect A2DP and Handsfree.

The following significant changes have been made to BlueSoleil10.0.479.1 Release since it is BlueSoleil10.0.477.0 Release:

- Fixed bug : the noise problems occured when making a call or record .
- Fixed bug : it can't connect back after restart the BLE HID device .
- Support the GATT Server

The following significant changes have been made to BlueSoleil10.0.477.0 Release since it is BlueSoleil10.0.474.2 Release:

- Integrate cPhone to BlueSoleil base version.
- Add GATT server functions to BlueSoleil base version.
- Add "Activate BlueSoleil" tray menu,convenience for the end user.

The following significant changes have been made to BlueSoleil10.0.474.2 Release since it is BlueSoleil10.0.472.2 Release:

- Fixed bug: Can't install BlueSoleil under Windows Vista Enterprise SP2 32 bits and 64 bits.
- Fixed bug: Can't open classical UI of BlueSoleil under Windows XP Professional SP3 64 bits.
- Fixed bug: Connect with PXP Tag. Will repeat to show "Windows Security" dialog for input password under Window 8.1 32/64 bits
- Fixed bug: add a BLE device with the wrong category window, the connected devices may disappear.

The following significant changes have been made to BlueSoleil10.0.472.2 Release since it is BlueSoleil10.0.470.0 Release:

- Add "Rename" option under the Right Click menu for devices.
- Fixed bug: the installation process may stop while deleting the temporary files.
- Fixed bug: remove Bluetooth adapter with A2DP connected, BlueSoleil may crash.

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The following significant changes have been made to BlueSoleil10.0.470.0 Release since it is BlueSoleil10.0.464.0 Release:

- Fixed bug: change the share folder for FTP/OPP, it will change back to default after reboot computer.
- Fixed bug: BlueSoleil only support 512pcs Bluetooth hardware device.

The following significant changes have been made to BlueSoleil10.0.464.0 Release since it is BlueSoleil10.0.457.0 Release:

- Supports Windows 8.1 OS.
- Fixed bug: with Android 4.1.2, the message can send from BlueSoleil application, but not received.

The following significant changes have been made to BlueSoleil10.0.457.0 Release since it is BlueSoleil10.0.453.0 Release:

- Optimize HID re-connect logic.
- Fixed bug: Can't get the contacts that saved in SIM card via PBAP.

The following significant changes have been made to BlueSoleil10.0.453.0 Release since it is BlueSoleil10.0.446.0 Release:

- Fixed bug: Sometimes BlueSoleilCS.exe can't create.

The following significant changes have been made to BlueSoleil10.0.446.0 Release since it is BlueSoleil10.0.417.0 Release:

- Re-design BlueSoleil Low Energy GUI.
- Merge iSend plug-in to BlueSoleil base version, support "capture screen", "send message", "capture picture and text from web page" functions.
- Support BT4.0 "Blood pressure" and "Glucose" profiles
- Fixed bug: Gamii plugin can't run on BlueSoleil 10.0.417.0.
- Fixed bug: Message Access Profile's message editor sometimes can't open.
- Optimize establishing Audio connection logic. Change "connect Bluetooth Advanced Audio" to "license to music"; Change "connect Bluetooth Headset and Microphone" to "make call". Hide "unpair"/"mute on"/"mute off" menus.
- Fixed bug: Bluetooth may automatically turn off while turning on/off Bluetooth for many times.
- Fixed bug: There is no response when click "New Message" to create a new message on BlueSoleil Classic UI.
- Fixed bug: BlueSoleil can't update driver automatically.
- Fixed bug: Can't open PBAP folders when click "View Contacts" menu on remote device.
- Fixed bug: BlueSoleil Classic UI always show "Searching devices…" if no device was found.
- Fixed bug: Connect a printer via HCRP, system dialog will hang after the add BlueSoleil serial port operation.
- Fixed bug: LE search device UI can't be close automatically, when Bluetooth is turned off
- Fixed bug: No sound come out when A2DP and SCO connection exists at the same time.
- Fixed bug: Proximity "Use the device to lock/login to the computer" function doesn't work.

The following significant changes have been made to BlueSoleil10.0.417.0 Release since it is BlueSoleil8.0.395.0 Release:

- The version has been changed from BlueSoleil 8.0 to BlueSoleil 10.0.
- Supports Bluetooth 4.0.
- Improved BLE HID SDK.
- Improved AVRCP functions to support iTunes.
- Add two new items "Bluetooth Message" and "Bluetooth Low Energy" on BlueSoleil Display Classic View.

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- Add three new items “Back up Contacts” “Recover Contacts” and “Start Sync” for Sync profile.
- Fixed bug: BlueSoleil Bttray can’t turn on with LE functions included.
- Fixed bug: The messy code in device property dialog.
- Fixed bug: Can’t see MAP icon on BlueSoleil Classic UI.
- Fixed bug: Can’t connect with HID device.
- Fixed bug: AVRCP control panel will not pop-up with Windows 8 inbox Bluetooth as TG and BlueSoleil as CT.
- Fixed bug: Sometimes can’t unplug HID devices.
- Fixed bug: BlueSoleil will crash while AVRCP dialog box is closed.
- Fixed bug: BlueSoleil will crash after connection with HFP device in Windows 8 OS.
- Fixed bug: Unable to control BT Volume with GUI Bar.
- Fixed bug: FTP windows would be crashed under windows 8 OS.
- Fixed bug: Connect AVRCP 1.4, but the dialog box is AVRCP 1.0.
- Fixed bug: BlueSoleil Explore Bluetooth Places shell can’t show BLE devices.
- Fixed bug: No voice comes out with handsfree devices.
- Fixed bug: The information bubble of FTP folder shows incorrectly.
- Fixed bug: After computer is restarted, explorer.exe error occurs.
- Fixed bug: Click Pause at the volume control panel, then restart at AVRCP CT, the volume bar will go to 0 first.
- Fixed bug: Sometimes, AVRCP volume bar location doesn`t keep previous setting.
- Fixed bug: Connect/disconnect A2DP Sink of remote device, BlueSoleil UI would be hanging.
- Fixed bug: Transferring 0 byte file via FTP/OPP/BIP, it will show 100% even when remote device doesn’t allow transferring.
- Fixed bug: Restart computer with HFP Connected, after several times, Bluetooth SCO Audio can’t set as default audio.
- Fixed bug: Files still can be seen in BT Exchange Folder of remote unit even if they have been deleted completely in local unit.
- Fixed bug: The Bluetooth address will not change even when the Bluetooth dongle has already changed
- Fixed bug: In order to delete one device that has been paired before, un-pairing has to be done first.
- Fixed bug: Can’t show the correct words while listing messages.
- Fixed bug: When the folder window is minimized, it can’t be recovered.
- Fixed bug: Can’t open BLE window in Windows XP.
- Fixed bug: When Bluetooth is turned off with LE HID connected, Bluetooth can’t turn on again.

The following significant changes have been made to BlueSoleil8.0.395.0 Release since it is BlueSoleil8.0.390.0 Release:

- Supports Windows 8.
- Improved VoIP function.
- Supports AVRCP 1.4.
- Supports AVRCP Controller on X64 platform.
- Fixed bug: Cannot push files to a new folder via FTP.
- Fixed bug: OPP/BIP cannot work on Windows 8.
- Fixed bug: Only one contact can be sent to Outlook via PBAP on X64 platform.
- Fixed bug: Upload multiple files via FTP, select reject all at Server side, there is still one file that can be transferred at Client side.
- Fixed bug: AVRCP Target side cannot respond to Pause/Play operation.

The following significant changes have been made to BlueSoleil8.0.390.0 Release since it is BlueSoleil8.0.376.0 Release:

- Supported Sync profile with this new version.
- Improved the sound card switch logic.

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- Improved the command line support from setup.exe.
- Improved the activation process.
- Fixed bug: Cannot register the DLL for Skype on 64bit OS successfully.
- Improved the functions of VoIP to handle some headsets will send pause command to A2dp source if connected HFP.
- Changed the logic of A2dp Sink sound card choice, will use the system default sound card to play sound from A2dp source.
- Added one configuration to control whether showing the tip for the uninstall finish or not.
- Fixed bug: BTAMP data transfer would be delayed 1 minute after connection establishment
- Fixed bug: System requests to reboot if the Wi-Fi device is disabled.
- Fixed bug: Can't make AVRCP TG connection with Moto Bluetooth solution.
- Fixed bug: HID mouse can't move after S3/S4 occasionally.

The following significant changes have been made to BlueSoleil8.0.376.0 Release since it is BlueSoleil8.0.370.0 Release:

- If the device name is more than 20 bytes, then the dial-up interface will not pop-up.
- Use images to beautify the slider control of adjusting volume.
- Improved activation policy.
- No longer limit the speed of transmission for BIP.
- Fixed bug: Close task dialog when the process of the BPP transmission will cause Bttray crash.
- Fixed bug: The service of the OBEX and set up local shared directory is garbled.
- Fixed bug: Under some scene BIP cannot receive files.
- Fixed bug: The dialog box of file properties of FTP files will repeat to pop up.
- Fixed bug: Click bubbles After OPP transmission success will pop up folder.
- Fixed bug: The tip of set FTP transmission properties is garbled.

The following significant changes have been made to BlueSoleil8.0.370.0 Release since it is BlueSoleil8.0.359.0 Release:

- Support to dynamically assign Bluetooth address.
- Optimize OBEX transfer process, if the name of file is too long, it may cause the file a transfer failure.
- Optimize HID connection process, fixed the problem of OS restart dialog box popping up when HID is connecting.
- Optimize DUN connection process.
- Fixed bug: Dialog characters show in garbled way when contacts and SMS list.
- Fixed bug: Cannot support UTF8 format when in sync with Outlook.
- Fixed bug: Connection/broken chains of events tip that do not support multi-languages.
- Fixed bug: Dialog characters show in garbled way when headset re-connects with BlueSoleil.
- Fixed bug: FTP/OPP file transfer refreshes too fast, leading to high CPU utilization.
- Fixed bug: FTP folder attributes and file name are shown in garbled way.
- Fixed bug: Remove Bluetooth hardware in high-speed transmission process, cause BlueSoleil hang-up.
- Fixed bug: BPP cannot support multi-language documents.
- Fixed bug: BPP client print status cannot support multi-language.
- Fixed bug: Sometimes BPP server Preview or Save AS dialog cannot pop up.

The following significant changes have been made to BlueSoleil8.0.359.0 Release since it is BlueSoleil8.0.356.0 Release:

- Fixed bug: Can't open file in remote FTP folder with multi-language name.
- Bluetooth File transfer function improvement and performance optimization.

The following significant changes have been made to BlueSoleil8.0.356.0 Release since it is BlueSoleil8.0.352.0 Release:

- Upgrade driver to support more Bluetooth chips.
- Upgrade PIM library to support new mobile phones.

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- Support A2DP auto-reconnection.
- Fixed bug: plug in the second Bluetooth chip and then plug it out, BlueSoleil will turn off.
- Fixed bug: BlueSoleil shows connection fails with HFP AG, even when the connection is fine.
- Fixed bug: BlueSoleil will turn off when plug in/out a removable disk with BCSP device.

The following significant changes have been made to BlueSoleil8.0.352.0 Release since it is BlueSoleil8.0.350.0 Release:

- Fixed bug: Newly created folder at the server is not getting listed at the client on a FTP reconnection.
- Fixed bug: unable to rename newly folder after creating it on FTP server.
- Fixed bug: unable to set the Bluetooth device name as space character.

The following significant changes have been made to BlueSoleil8.0.350.0 Release since it is BlueSoleil8.0.349.0 Release:

- Upgrade driver to support more Bluetooth chips.
- Fixed bug: disable Bluetooth device in device manager, it will be automatically enabled after a few seconds.
- Fixed bug: can't remove SD card safely.

The following significant changes have been made to BlueSoleil8.0.349.0 Release since it is BlueSoleil8.0.348.1 Release:

- FTP Server supports read-only file and folder.
- Unable to set local device name to null.
- Support OBEX multi-language.

The following significant changes have been made to BlueSoleil8.0.348.1 Release since it is BlueSoleil8.0.342.0 Release:

- Fixed bug: With X170, sometimes Bluetooth icon cannot disappear when Bluetooth is disabled/enabled via hotkey.
- Export an interface for simple pairing.
- Push message has been changed to "outbox" folder for MAP.

The following significant changes have been made to BlueSoleil8.0.342.0 Release since it is BlueSoleil8.0.338.0 Release:

- Fixed bug: sometimes system cannot wake up after s3/s4.

# 4 References

[1]. Specification of the Bluetooth System, Core, V2.0+EDR, November 4, 2004.
[2]. Specification of the Bluetooth System, Profiles, date up to January 30, 2007.
[3]. Specification of the Bluetooth System, Core_V3.0+HS, April 21, 2009.
[4]. Specification of the Bluetooth System, Core_V4.0, 30 June 2010.

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