



BlueSoleil™

**9.2.498.0
Release Note**

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1 Introduction

The document describes IVT BlueSoleil version 9.2.498.0.

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, Windows 10
- 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 Roles: Group Network/PAN User | √, 1 | √, 1+ |
| SPP | Serial Port: Roles: Device A/Device B | √, 1+ | √, 1+ |
| DUN | Dial-Up Networking Roles: Data Terminal | √, 1+ | N/A |
| HID | Human Interface Device Roles: Host | √, 1+ | N/A |
| OPP | Object Push Roles: Client/Server | √, 1 | √, 1 |
| FTP | File Transfer Roles: Client/Server | √, 1 | √, 1 |
| FAX | FAX Roles: Data Terminal | √, 1 | N/A |
| Headset | Headset Roles: Audio Gateway | √, 1 | √, 1 |

| | | | |
|-----------|---|-----------|-------|
| Handsfree | Handsfree Roles: Audio Gateway | √, 1 | √, 1 |
| A2DP | Advanced Audio Distribution Profile Roles: Source & Sink | √, 1 | √, 1 |
| AVRCP | Audio/Video Remote Control Profile Roles: Target | √, 1 | √, 1 |
| HCRP | Hardcopy Cable Replacement Roles: Client | √, 1 | N/A |
| BIP | Basic Imaging Service Roles: Image Push(Imaging Responder) | √, 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 only 1 connection once. "1+" means more than 1 connection once.
2. "N/A" means 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:

- 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:

- Open APIs for 3rd party.
- “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.
- Supports UART Devices.

3.4 Functional Restrictions

The following major functional restrictions apply to this release:

- To make BlueSoleil work normally, the max number of local SPP services is limited to 5.
- 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 it, 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 9.2.498.0 Release since it is BlueSoleil 9.2.497.0 Release:

- Fixed bug: Serial number cannot activate BlueSoleil (Manual activation error code 0x212)

The following significant changes have been made to BlueSoleil 9.2.497.0 Release since it is BlueSoleil 9.2.496.1 Release:

- Update the driver
- Add new HardwareID

The following significant changes have been made to BlueSoleil 9.2.496.1 Release since it is BlueSoleil 9.2.494.0 Release:

- Fix Bug: Failed to connect with HID equipment;
- Fix Bug: Connect with Omron blood glucose meter, no data displayed.

The following significant changes have been made to BlueSoleil 9.2.494.0 Release since it is BlueSoleil 9.2.493.2 Release:

- Fix Bug: failed to connect Bluetooth4.0 Keyboard

The following significant changes have been made to BlueSoleil 9.2.493.2 Release since it is BlueSoleil 9.2.492.1 Release:

- Update the driver
- Add new HardwareID

The following significant changes have been made to BlueSoleil 9.2.492.1 Release since it is BlueSoleil 9.2.489.0 Release:

- Add function: Once having a new version, prompt to update.
- 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 9.2.489.0 Release since it is BlueSoleil 9.2.485.2 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 pairing 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.

The following significant changes have been made to BlueSoleil 9.2.485.2 Release since it is BlueSoleil 9.2.484.0 Release:

- Close the wii device switch.

The following significant changes have been made to BlueSoleil 9.2.484.0 Release since it is BlueSoleil 9.2.483.0 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 BlueSoleil 9.2.483.0 Release since it is BlueSoleil 9.2.482.1 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 BlueSoleil 9.2.482.1 Release since it is BlueSoleil 9.2.479.1 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 BlueSoleil 9.2.479.1 Release since it is BlueSoleil 9.2.477.0 Release:

- Fixed bug : the noise problems ocured 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 BlueSoleil 9.2.477.0 Release since it is BlueSoleil 9.2.474.2 Release:

- 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 BlueSoleil9.2.474.2 Release since it is BlueSoleil9.2.472.2 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 BlueSoleil9.2.472.2 Release since it is BlueSoleil9.2.470.0 Release:

- Fixed bug: the installation process may stop while deleting the temporary files.
- Fixed bug: remove Bluetooth adapter when A2DP connection exist, BlueSoleil may crash.
- Fixed bug: Bluetooth cannot be started in XP amd64 system.
- Fixed bug: Delete the link key in remote Bluetooth 4.0 device, BlueSoleil cannot pair with the device anymore.
- Add rename Bluetooth device function.
- Modify the Bluetooth virtual sound plug-in strategy, Plug-in the device by default, when Bluetooth function in on.

The following significant changes have been made to BlueSoleil9.2.470.0 Release since it is BlueSoleil9.2.464.0 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 BlueSoleil9.2.464.0 Release since it is BlueSoleil9.2.457.0 Release:

- Supports Windows 8.1 OS.

The following significant changes have been made to BlueSoleil9.2.457.0 Release since it is BlueSoleil9.2.453.0 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 BlueSoleil9.2.453.0 Release since it is BlueSoleil9.2.446.0 Release:

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

The following significant changes have been made to BlueSoleil9.2.446.0 Release since it is BlueSoleil9.2.417.0 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
- 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: BlueSoleil can't update driver automatically.
- 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 BlueSoleil 9.2.417.0 Release since it is BlueSoleil 7.0.395.0 Release:

- The version has been changed from BlueSoleil 7.0 to BlueSoleil 9.2.
- Supports Bluetooth 4.0.
- Improved BLE HID SDK.
- Improved AVRCP functions to support iTunes.
- Fixed bug: The messy code in device property dialog.
- Fixed bug: BlueSoleil Bttray can't turn on with LE functions included.
- 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 BlueSoleil 7.0.395.0 Release since it is BlueSoleil 7.0.390.0 Release:

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

The following significant changes have been made to BlueSoleil7.0.390.0 Release since it is BlueSoleil7.0.376.0 Release:

- Supported Sync and PBAP profile with this new version.
- Improved the sound card switch logic.
- 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 HFP is connected.
- 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 BlueSoleil7.0.376.0 Release since it is BlueSoleil7.0.370.0 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.
- Improve the activation policy.
- No longer limit the speed of transmission for BIP.
- 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 BlueSoleil7.0.370.0 Release since it is BlueSoleil7.0.359.0 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: 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.

The following significant changes have been made to BlueSoleil7.0.359.0 Release since it is BlueSoleil7.0.356.0 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 BlueSoleil7.0.356.0 Release since it is BlueSoleil7.0.353.4 Release:

- Upgrade driver to support more Bluetooth chips.
- 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 BlueSoleil 7.0.353.4 Release since it is BlueSoleil7.0.350.0 Release:

- Fixed bug: Set FTP server folder to read-only, the folder still can be deleted in FTP client.
- Fixed bug: Bluetooth passkey window gets displayed again; even if the device gets paired on selecting the 'pair' option.

The following significant changes have been made to BlueSoleil 7.0.350.0 Release since it is BlueSoleil7.0.348.4 Release:

- Fixed bug: can't disable Bluetooth dongle in Device Manager.
- Fixed bug: can't remove SD card.

The following significant changes have been made to BlueSoleil 7.0.349.0 Release since it is BlueSoleil7.0.348.4 Release:

- Support OBEX multi languages.
- Can't set local device name to null.

The following significant changes have been made to BlueSoleil 7.0.348.4 Release since it is BlueSoleil7.0.338.1 Release:

- Fixed bug: can't switch to high speed mode with Moto driver.

The following significant changes have been made to BlueSoleil 7.0.348.1 Release since it is BlueSoleil7.0.338.0 Release:

- Fixed bug: sometimes system cannot wake up after s3/s4.
- Fixed bug: sometimes Bluetooth icon cannot disappear when Bluetooth is disabled/enabled via hotkey.
- Export an interface for simple pairing.

4 References

- [1]. Specification of the Bluetooth System, Core, V2.1+EDR, November 4th, 2004.
- [2]. Specification of the Bluetooth System, Profiles, date up to January 30th, 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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