BlueSoleil™

7.0.395.0
Release Note

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1 Introduction

This document describes IVT BlueSoleil version 7.0.395.0.

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

- 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 against version 2.0+EDR of the Bluetooth Core Specification [1] and Bluetooth Profile Specification [2] and Covered Core Package version:3.0+HS [3].

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

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 will not be supported.

And:

- Supports Bluetooth 2.1+EDR.

- Supports Bluetooth 3.0+High Speed.

- 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

Before installation:
- Uninstall the earlier version of BlueSoleil you installed on your computer: Click Start -> Control Panel to open 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 when 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 service 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 doing this, please contact IVT.)

3.5 Known Issues

No	
1	The speed of transferring files via PAN profile in Windows Vista is slow sometimes. If users cancel the file transfer procedure, the Windows Explorer restarts occasionally.
2	When connecting to some cellular phone, BlueSoleil could not set up connection successfully sometimes. For example，some model of Motorola V3 and L7. In this condition, you need to pair with the phone first, and then connect with it.
3	

3.6 History

The following significant changes have been made to BlueSoleil7.0.395.0 Release since it is BlueSoleil7.0.390.0 Release:
- Supports Windows 8.

- Improved VoIP function.
- Supports AVRCP 1.4.
- Supports AVRCP Controller on X64 platform.
- Fixed bug: AVRCP Target side cannot response 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: Upload multiple files via FTP, select reject all at Server side, there still one file 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.
- Improve 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 disabling the Wi-Fi device.
- 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 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 dynamic assign Bluetooth address.
- Optimize OBEX transfer process, if the name of file is too long that may cause the file cannot transfer.
- Optimize HID connection process, fixed the problem that connecting HID pop-up the dialog box of restarting OS.
- Optimize DUN connection process.
- Fixed bug: Cannot support UTF8 format when sync with Outlook.
- Fixed bug: Connection/broken chains of events tip that do not support multi-languages.
- Fixed bug: Dialog characters show in garbled when headset re-connect with BlueSoleil. .
- Fixed bug: FTP/OPP transfer file refresh too fast, leading to high CPU utilization.
- Fixed bug: FTP folder attributes and file name is show in garbled.
- 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 that named in multi-language.

- Bluetooth File transfer function improve and performance optimization.

The following significant changes have been made to BlueSoleil7.0.356.0 Release since it is BlueSolei7.0.353.4 Release:

- Upgrade driver to support more Bluetooth chips.
- Support A2DP auto-reconnect.
- Fixed bug: Plug in the second Bluetooth chip and then plug it out, BlueSoleil will turn off.
- Fixed bug: BlueSoleil show connection fail with HFP AG, even 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 disable/Enable Bluetooth via hotkey.
- Export a interface for simple pair.

4 References

[1]. Specification of the Bluetooth System, Core, V2.0+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.

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