MSP430 MFi Release Notes
Release Notes
Release 1.9

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Revision History

Rev	Updated Areas	Date	Author
1.0	First Release	02/27/12	T. Cook
1.1	Updated to CCS5	03/28/12	T. Cook
1.2	Added LE Support.	04/20/12	T. Cook
1.3	Added LE sample applications	06/04/12	D. Lange
1.4	Added SPP+LE Combined Application	07/06/12	T. Cook
1.5	Bug fixes + Patch Update	07/24/12	T. Cook
1.6	Bug fixes + SPPDemo added	07/30/12	T. Cook
1.7	Comprehensive Release Update	10/10/12	T. Cook
1.8	Comprehensive Release Update	07/08/13	T. Cook
1.9	Audio update.	07/25/13	T. Cook

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1.   Changed in Release 1.9

This release adds iAP2 support.

2.   Files Included in this Release

2.1   Documentation

Various Standard Documents are provided in PDF form. These documents include developers guide and API documents for the core Bluetooth Stack.

This information is provided in the Documentation folder.

2.2   Source and Libraries

All end user source and libraries are provided in a Zip file format. The archive name is 'TI_Bluetopia_4_0_1_8_MSP430_MFi.zip'. This overlay is intended to be overlayed with the Bluetopia SDK version 1.4 obtained through TI.

3.   Release Notes

3.1 Build Notes

This release covers a Bluetopia Release that supports Bluetooth 4.0. This release is intended to be built with either Code Composer Studios for MSP430 or IAR's Embedded Workbench for MSP430. Projects for both are included with the correct include path and other settings to be built out of the box with little effort.

3.1.1 Overlay Format

This release is an overlay format. Only the files necessary to add MFi support to the generic TI MSP430 release are included. All other files must be obtained through TI as described in the Readme. In order to merge this overlay onto of the generic TI MSP430 Bluetopia SDK the "MSP430_Experimentor\" folder must be copied on top of the folder of the same name in the SDK provided by TI (the version of the SDK that must be used is described in Section 2.2).

3.2 O/S Abstraction Notes

The O/S abstraction layer is specified in the BTPSKRNL.c/h file.

3.3 Transport Notes

The HCI Transport abstraction layer is specified in the HCITRANS.c and HCITRANS.h files.

EHCILL.c/.h, as well as HCITRANS.c, supports the TI specific EHCILL protocol for power management. In order to enable this protocol the HCILL_Configure (defined in EHCILL.c/.h) function should be called with the desired protocol parameters.

A vendor specific file, BTPSVEND.c, is included that downloads the Patch RAM to the CC2564.

This version supports the UART transport protocol. The protocol is selected by correctly populating the correct protocol in the HCI_DriverInformation_t structure. The following code snippit selects the HCILL low power protocol:

```
HCI_DriverInformation_t DriverInformation;

HCI_DRIVER_SET_COMM_INFORMATION(&DriverInformation, 1, 115200,
cpHCILL_RTS_CTS);

BSC_Initialize(&DriverInformation, 0);
```

Note that in both cases, the driver information is passed to the HCITR_COMOpen() function so that the driver can take any required action based on the parameters that are specified for the open. Also note that the baud rate can be changed here to something other than the default of 115200 baud if needed (for example to increase data throughput).