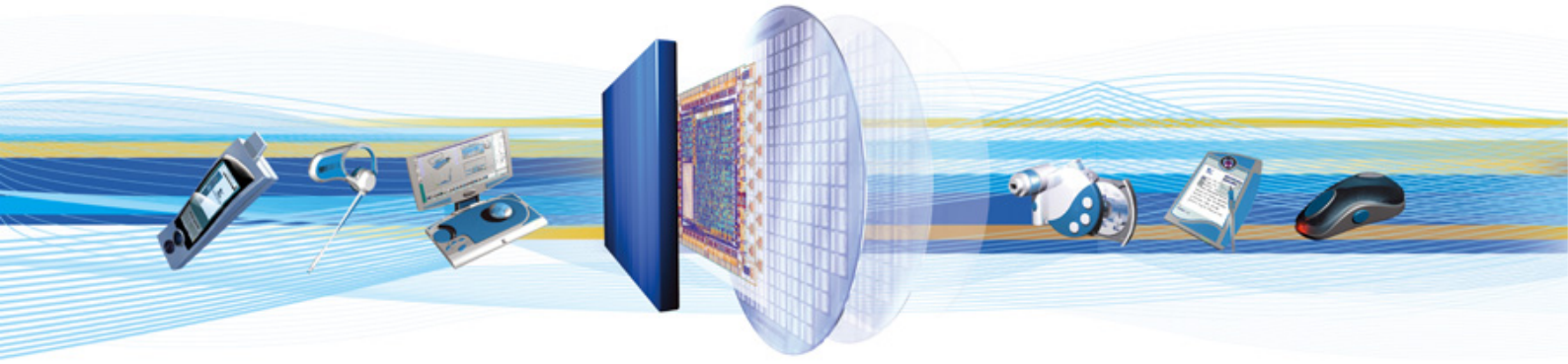
CSR Synergy Bluetooth 18.2.0

HCRPS Hardcopy Cable Replacement Profile Server

Demo Description

November 2011



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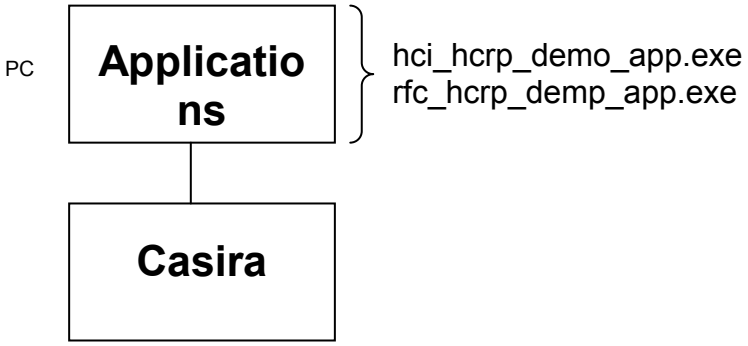
1.1 Generally

The HCRP server example application can be used for transferring printer data from a HCRP client (e.g. a PC) to the HCRP server. The demo can be run with a CASIRA fitted with a BlueCore module that has either a HCI or a RFCOMM build of the firmware running on it. Two projects exist which are built to allow the HCRP server example application to run on either the HCI or RFCOMM firmware based devices. In both cases the functionality of the HCRP server example application and the actual HCRP profile manger is exactly the same.



The HCRP server program provides the following example functionality:

- Activate the HCRP server so that a HCRP client can discover it and connect to it
- Receive raw printer data from a HCRP client (e.g. a PC). This printer data is generated from the printer driver that has been installed on the client for the particular model of printer being used
- Receive and process a request for the printer's IEEE 1284 printer status bits
- Receive and process a request for the printer's IEEE 1284 printer identification string
- Deactivate the HCRP server

The application has been made to run on Windows and Linux and may be connected to the Casira using either a serial connection using BCSP (`rfc_hcrp_demo_app.exe`), a serial connection using H4DS (`rfc_hcrp_demo_app_h4ds.exe`) or an USB connection (`rfc_hcrp_demo_app_usb.exe`). Exchange 'rfc' with 'hci' to use the HCI versions.

1.2 Use of the hci_hcrp_demo_app.exe program

Note: This description is for both CSR Synergy Bluetooth HCI and CSR Synergy Bluetooth RFCOMM, and for the various connection types.

Program invokation:

The following program parameters can be given as command line parameters at program start:

-C port	to specify which COM port the program should use (connected to the Casira). For example, -C COM2, default is COM1.

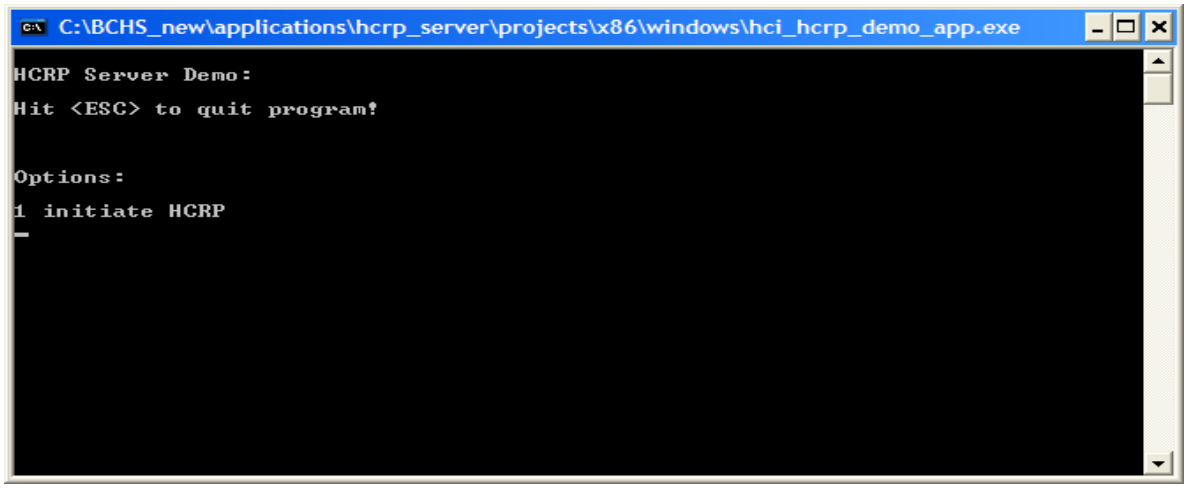
-B baudrate	to specify which baud rate to use between the PC and Casira. For example, -B 921600, default is 115200.
-A	Select a specific device for default connection by specifying the –A parameter to the program, e.g. hci_hcrp_demo_app –a 0002:5b:01a494. If no address is specified it is necessary to perform a search for servers in order to establish a connection.

Program usage:

The demo application is implemented as a limited shell. The shell only understands 2 different commands.

The shell interpreter can be closed (the program aborted) by pressing the ESC key at any time.

1. Activate HardCopy Cable Replacement Profile Server. This option activates the HCRP server so that other devices can discover and connect to the device.



When the HCRP server is activated, discover, connect and send printer data to it from a HCRP client is available.

Terms and Definitions

BlueCore®	Group term for CSR's range of Bluetooth wireless technology chips
Bluetooth®	Set of technologies providing audio and data transfer over short-range radio connections
CSR	Cambridge Silicon Radio
UniFi™	Group term for CSR's range of chips designed to meet IEEE 802.11 standards

Document History

Revision	Date	History
1	26 SEP 11	Ready for release 18.2.0

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