CSR Synergy Bluetooth 18.2.0

OBEX MAP Message Access Profile Server

Demo Description

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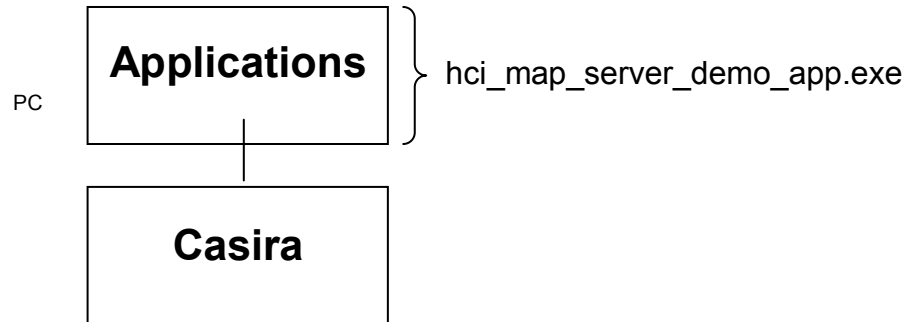Tel: +44 (0)1223 692000
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Contents

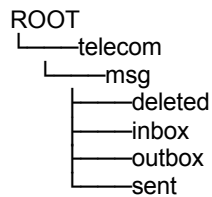**CSR Synergy Bluetooth 18.2.0 MAPS Demo Description**

1   OBEX Message Access Profile Server Profile

1.1   Generally

The OBEX MAP server program can be used for message transfer. This demo is running with a CASIRA with HCI-build firmware.

Before starting the program it is necessary to check that a folder named "root" exists in the same directory where the program is (this is necessary to check if the program is moved to another directory). The "root" directory is the share root folder for message transfer and must contain the following tree-structure:

```
ROOT
  └──telecom
      └──msg
          ├──deleted
          ├──inbox
          ├──outbox
          └──sent
```

All message to be transferred must be placed in one of these folders.

1.2   MAP Server

Use of program hci_map_server_demo_app.exe

Note: This description is for CSR Synergy Bluetooth. For use of this program, a client side is required.

The MAP-server waits for the client to connect and either pushes or pulls objects, i.e. all activity takes place from the client side. However, saving an object, creating a directory or typing in pin-code for Bluetooth and authentication can be required.

Start the program hci_map_server_demo_app. The following options are available:

-C	Choose the COM port on which the Bluetooth module is connected, by specifying the –C parameter to the program, e.g. hci_map_server_demo_app –C COM1. At start up COM1 is selected as default.
-B	Choose baudrate for the COM port on which the Bluetooth module is connected, by specifying the –B parameter to the program, e.g. hci_map_server_demo_app –B 115200. If no parameter is specified the default is 115200
-A	Choose a specific device for default connection by specifying the –a parameter to the program, e.g. hci_map_server_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. This parameter is optional.
-X	Set BD address of device

At start up, the following possibilities are available, see below illustration:

```
/cygdrive/s/p4work/synergy/bt/main/applications/obex_map
List of MAPS Instances:
        MapsInstanceId[00] = 0x0019, MNS registration = OFF,  *Selected*
        MapsInstanceId[01] = 0x001A, MNS registration = OFF, Not selected
        MapsInstanceId[02] = 0x001B, MNS registration = OFF, Not selected
        MapsInstanceId[03] = 0x001C, MNS registration = OFF, Not selected
        MapsInstanceId[04] = 0x001D, MNS registration = OFF, Not selected
        MapsInstanceId[05] = 0x001E, MNS registration = OFF, Not selected
        MapsInstanceId[06] = 0x001F, MNS registration = OFF, Not selected
        MapsInstanceId[07] = 0x0020, MNS registration = OFF, Not selected
        MapsInstanceId[08] = 0x0021, MNS registration = OFF, Not selected
        MapsInstanceId[09] = 0x0022, MNS registration = OFF, Not selected

State..............Idle (0)
Active address......0000:00:000000
Local dir..........'s:\p4work\synergy\bt\main\applications\obex_map\root\'
Local root dir......'s:\p4work\synergy\bt\main\applications\obex_map\root\'

Menu selection:
  a) Activate MAPS instance

  s) Simulate sending messages pushed to outbox - NEEDED FOR PTS TESTING

  z) Change MAPS instance
```

Choosing a) will activate the server and it will be discoverable – the server waits for the client to connect and makes the operation.

Choosing 's' wil simulate that all messages, which are present in the INBOX are sent on a remote network (eg. GSM). Actually the messages are moved to the "SENT" folder.

Choosing 'z' will change which MAP-server instance that is being worked on.

CSR Synergy Bluetooth 18.2.0 MAPS Demo Description

2 Linux

This section describes how to build and run the MAPS demo application on Linux.

The MAPS demo application (pure user space), located in `./applications/obex_map`, may be compiled on Linux by means of:

> make clean all TARGET_ARCH=Linux-2.6-x86

The demo applications are used like described above for Windows.

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3 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

4 Document History

Revision	Date	History
1	26 SEP 11	Ready for release 18.2.0

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