



Melody and Windows 7 SPP

1. Introduction

This application note describes how to connect SPP from Windows 7 to Melody and from Melody to Windows 7.

Assumptions and prerequisites:

- 1) Serial terminal software such as PuTTY(used in this document), Hercules, or Hyperterminal
- 2) User knows how to connect and work with Melody over UART on PC
- 3) Melody and Windows 7 are paired
- 4) Melody device has enumerated and installed the appropriate drivers correctly
- 5) Melody is controlled over UART and its connection over Bluetooth to the same PC



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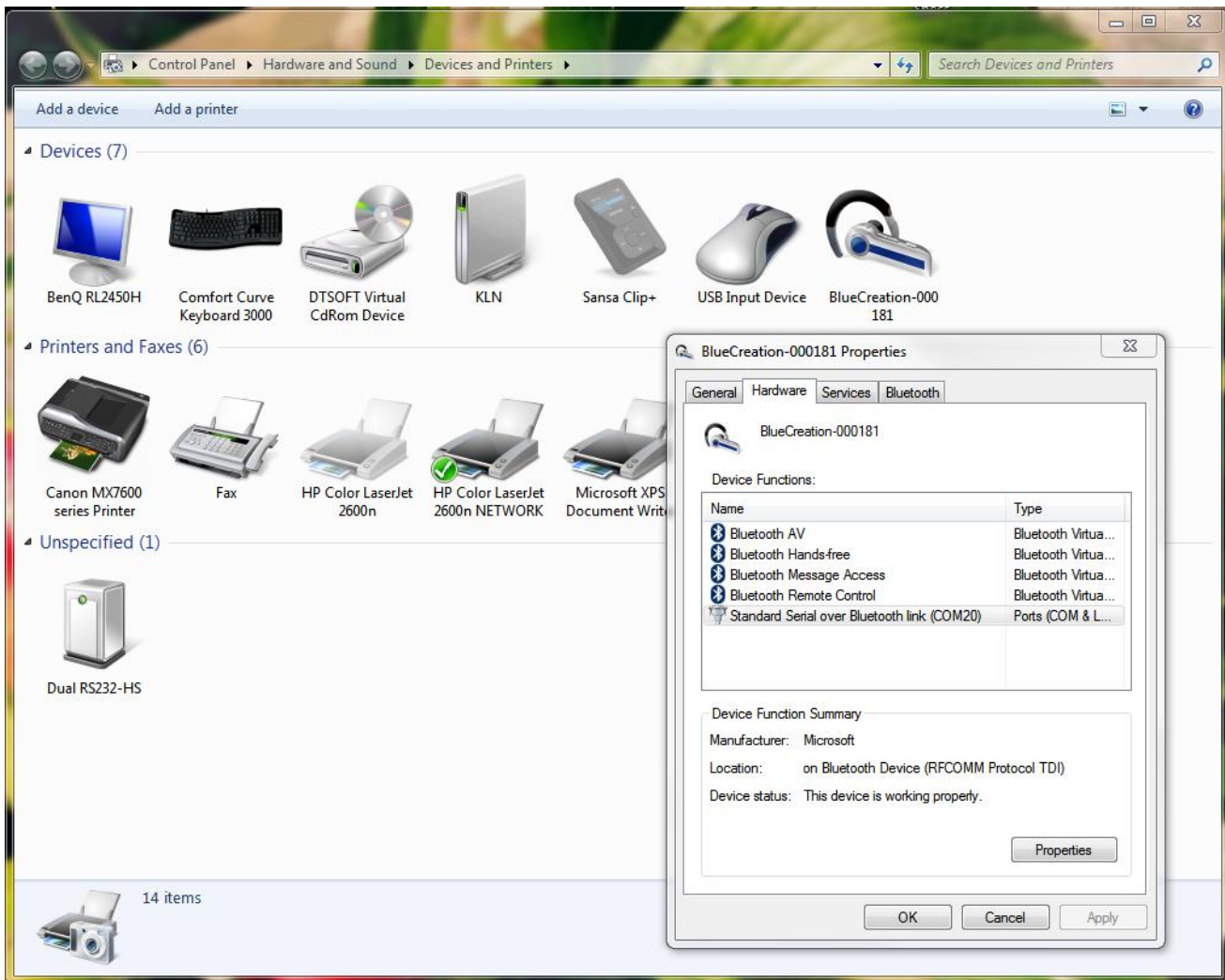


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2. Determining your Windows 7 SPP COM Ports

Before you can initiate an SPP connection to/from Windows 7, you need to know which COM ports enumerated for the Melody (BlueCreation-XXXXXX) device.

To do this, go to Start Menu→Devices and Printers. Find the BlueCreation-XXXXXX device and Right Click on properties:



Go to the Hardware tab and look for the "Standard Serial over Bluetooth Link (COMXX).

The COMXX reflects the COM port used by Windows to initiate a connection to Melody. In the screenshot above this is COM20.

The COM port used to accept connections on Windows is the next free COM port. Usually, this is COMXX+1. In the case above, Windows will accept incoming SPP connections at COM21.



3 Opening SPP from Windows 7

Using a serial terminal application open a connection to Melody. Using another instance of the serial terminal application, open the COMXX port used by Windows to initiate SPP. In the case of the screenshot this is COM20.

For the COM port baud setting use the same as Melody does, or higher (the default Melody baud is 9600), 1 stop bit, no parity. You can choose to use or not use flow control. In order to not lose any data, we suggest flow control be left on the PC side.

Once the COM port is opened, you will receive an SPP OPEN message on Melody.

You can now send data by typing into the Windows SPP COM port. This will be shown as RECV_SPP events in Melody.

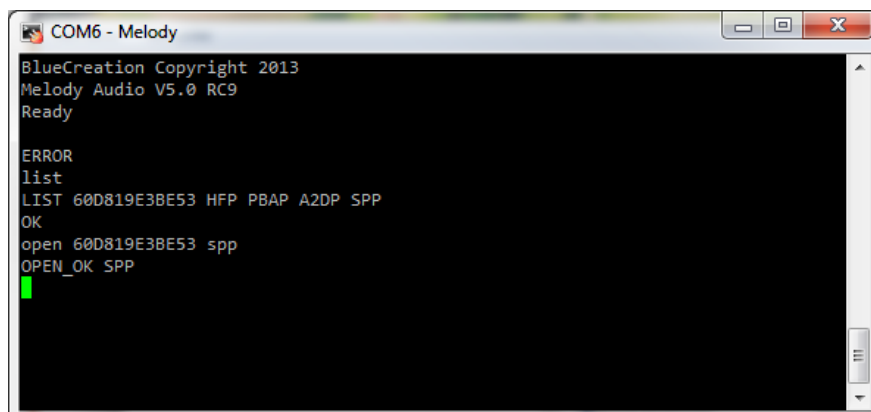
You can use the SEND {data} command in Melody to send data over SPP to the PC. This will directly be displayed in the serial terminal that has the SPP COM port open.

Closing the Windows SPP terminal will close the connection. Alternatively, using CLOSE 0 in Melody will close the connection from the Melody side.

4 Opening SPP from Melody

Using a serial terminal application open a connection to Melody. Using another instance of the serial terminal application, open the COMXX+1 port used by Windows to accept SPP. In the case of the screenshot this is COM21.

For the COM port baud setting use the same as Melody does, or higher (the default Melody baud is 9600), 1 stop bit, no parity. You can choose to use or not use flow control. In order to not lose any data, we suggest flow control be left on the PC side.





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Once the COM port is opened, you will be able to accept SPP connections from Melody.

In Melody, use the LIST command to get the Bluetooth address of the Windows PC you are paired with. Then open an SPP connection by using the OPEN {bdaddress} SPP command:

You can now send data by typing into the Windows SPP COM port. This will be shown as RECV_SPP events in Melody.

You can use the SEND {data} command in Melody to send data over SPP to the PC. This will directly be displayed in the serial terminal that has the SPP COM port open.

Closing the Windows SPP terminal will close the connection. Alternatively, using CLOSE 0 in Melody will close the connection from the Melody side.