BlueHDP+USB

User Guide

Release r01

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1 Introduction

We are very pleased to see that you have purchased a Stollmann product and would like to express our appreciation.

This documentation is valid for the following product: BlueHDP+USB

- Software version 1.402 or later

1.1 Product description

BlueHDP+USB is an active Bluetooth USB dongle. The complete Stollmann Bluetooth stack is running in the dongle.

The following Bluetooth profiles are supported:

- HDP
- DID
- SPP

1.2 Content

This package contains the following part:

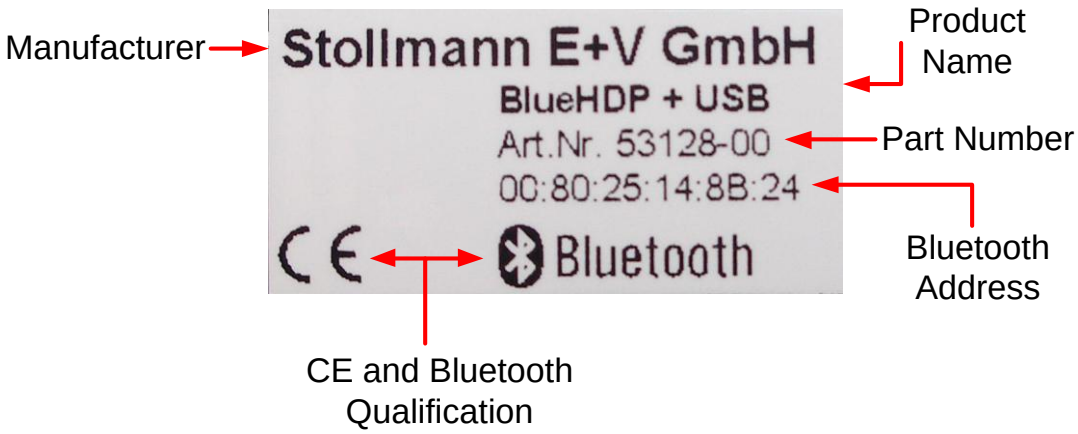
- BlueHDP+USB

1.2.1 LED

The BlueHDP+USB have an LED on the front side.

The green LED indicates that the BlueHDP+USB is powered correct from the USB port of the host system. There is no other functionality of the LED.

1.2.2 Label

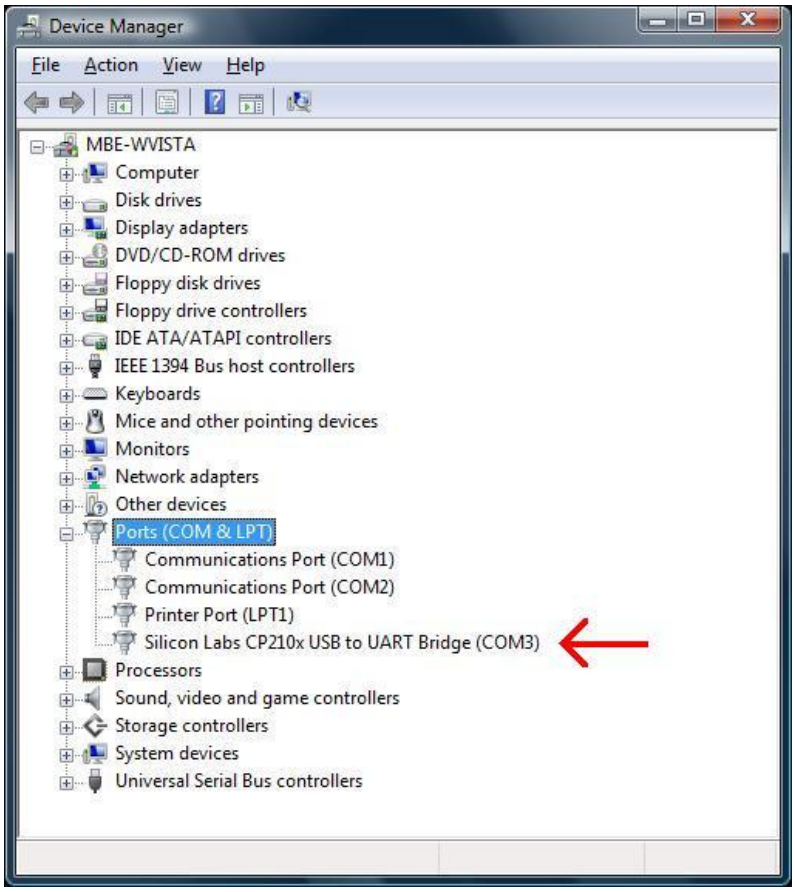

Manufacturer
Stollmann E+V GmbH
BlueHDP + USB
Art.Nr. 53128-00
00:80:25:14:8B:24
Bluetooth
Product Name
Part Number
Bluetooth Address
CE and Bluetooth Qualification

2 Installation

2.1 Procedure of Installation

Connect the BlueHDP+USB to a PC USB port and install the Silabs USB to UART Bridge driver (can be downloaded at http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx).

Find a new COM port in the device manager called “Silicon Labs CP210x USB to UART Bridge”.



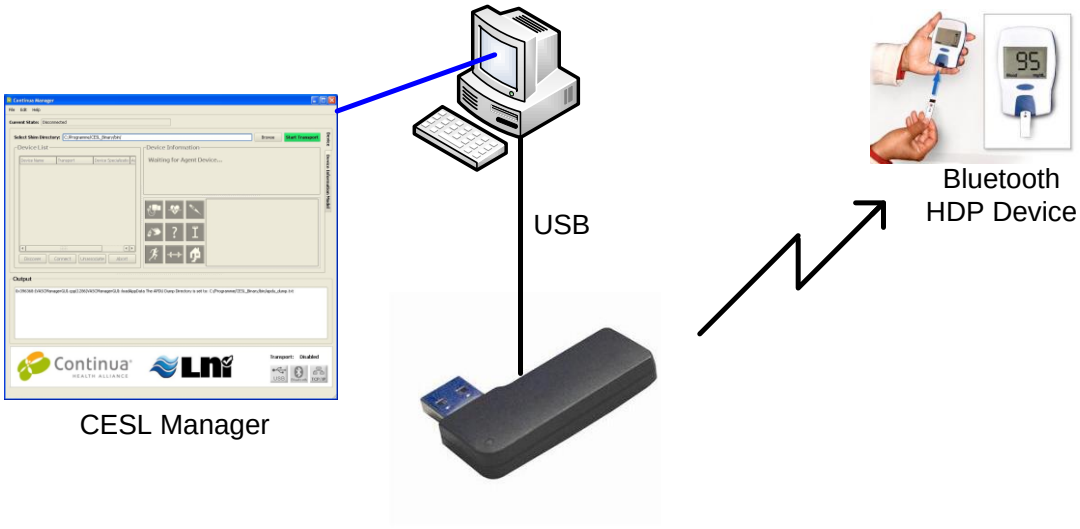
Now the BlueHDP+USB is ready to operate at the assigned COM port.

3 Usage of the BlueHDP+USB with Continua Enabling Software Library (CESL)

3.1 Requirements

- BlueHDP+USB with software version 1.402 or later
- CESL binary setup with software version 1.5 or later
- PC with Windows XP, Vista or 7 operating system

3.2 Test Setup



3.3 Procedure of Installation

To operate with BlueHDP+USB and CESL binary software please install the following software:

- BlueHDP+USB with Silabs USB to UART Bridge CP210x
- CESL binary setup v1.5 or later

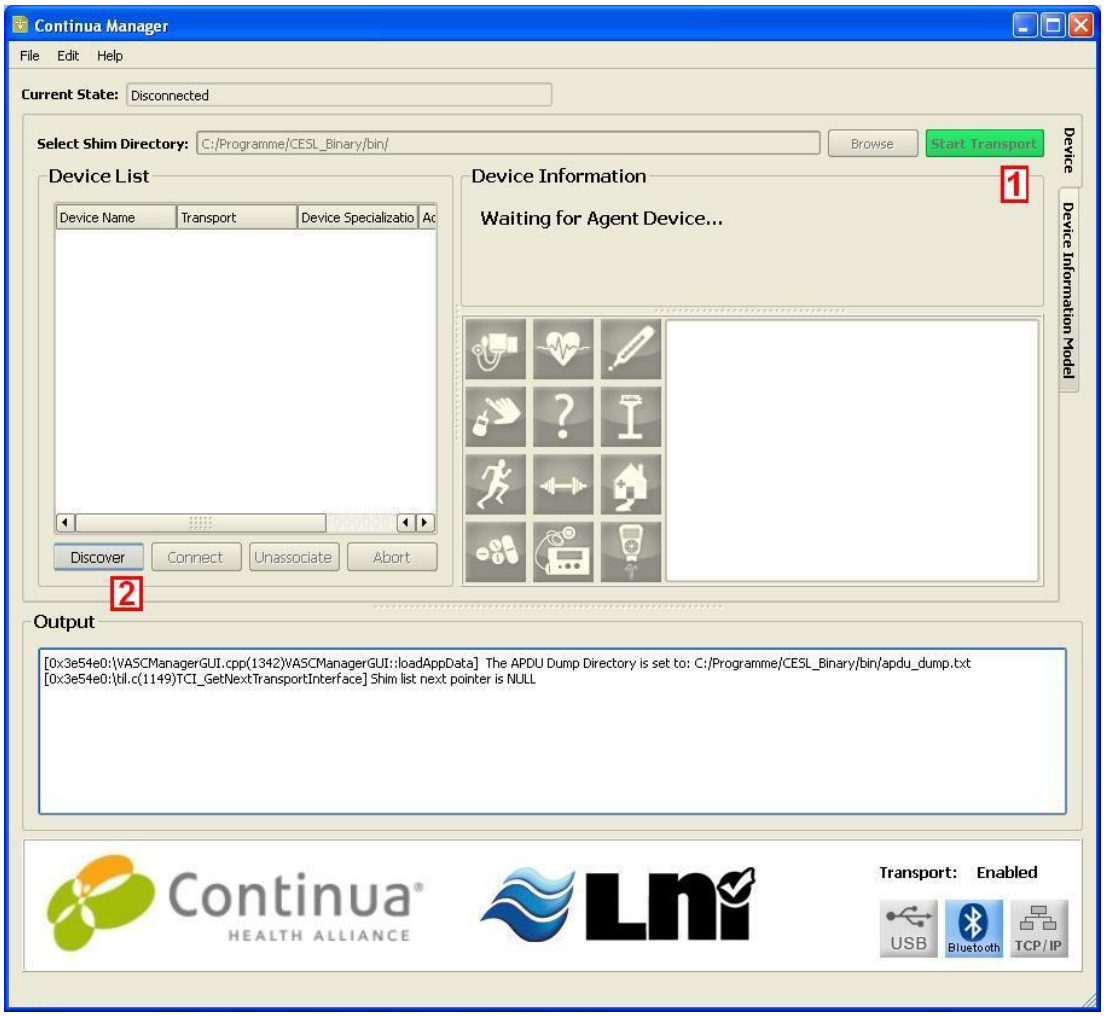
After correct installation of BlueHDP+USB with Silabs USB to UART Bridge CP210x please install the CESL binary software and follow the instructions.

3.4 Using the CESL Manager with BlueHDP+USB

Start the “Continua Manager GUI” application and modify the following parameters in the “Edit” section:

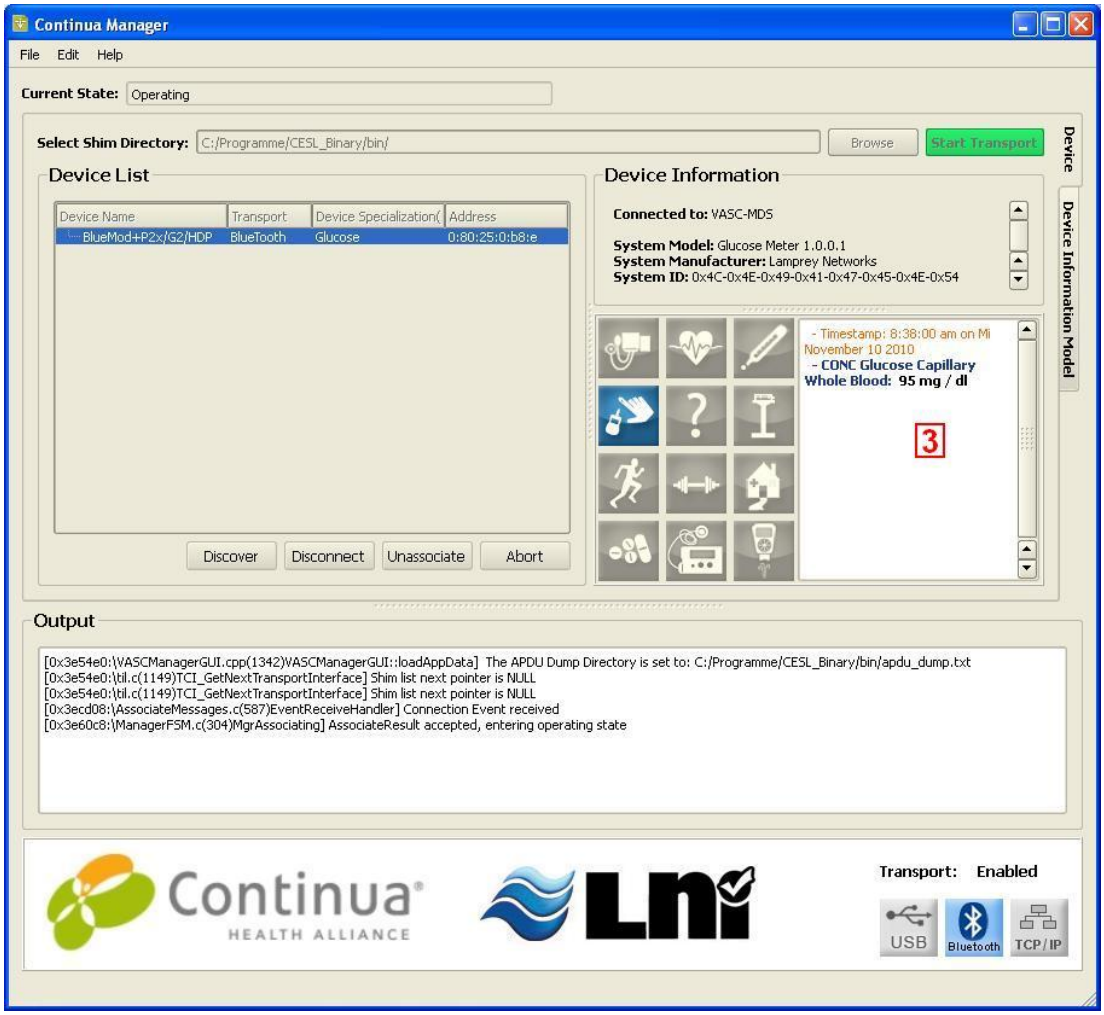
- “Transport Settings” --> disable USB & TCP Transport
- “Transport Settings” --> enable Bluetooth Transport with according COM-Port of BlueHDP+USB
- “WAN” --> disable Delivery to WAN Bridge

Now press “Start Transport” (1) to initialize the connected BlueHDP+USB and push “Discover” (2) to start the device discovery of HDP Bluetooth devices in your area.


Continua Manager
File
Edit
Help
Current State:
Disconnected
Select Shim Directory:
C:/Programme/CESL_Binary/bin/
Browse
Start Transport
1
Device
Device Information Model
Device List
Device Name
Transport
Device Specializatio
Ac
Device Information
Waiting for Agent Device...
Discover
Connect
Unassociate
Abort
2
Output
[0x3e54e0:\VASCManagerGUI.cpp(1342)VASCManagerGUI::loadAppData] The APDU Dump Directory is set to: C:/Programme/CESL_Binary/bin/apdu_dump.txt
[0x3e54e0:\til.c(1149)TCI_GetNextTransportInterface] Shim list next pointer is NULL
Continua
HEALTH ALLIANCE
Transport:
Enabled
USB
Bluetooth
TCP/IP

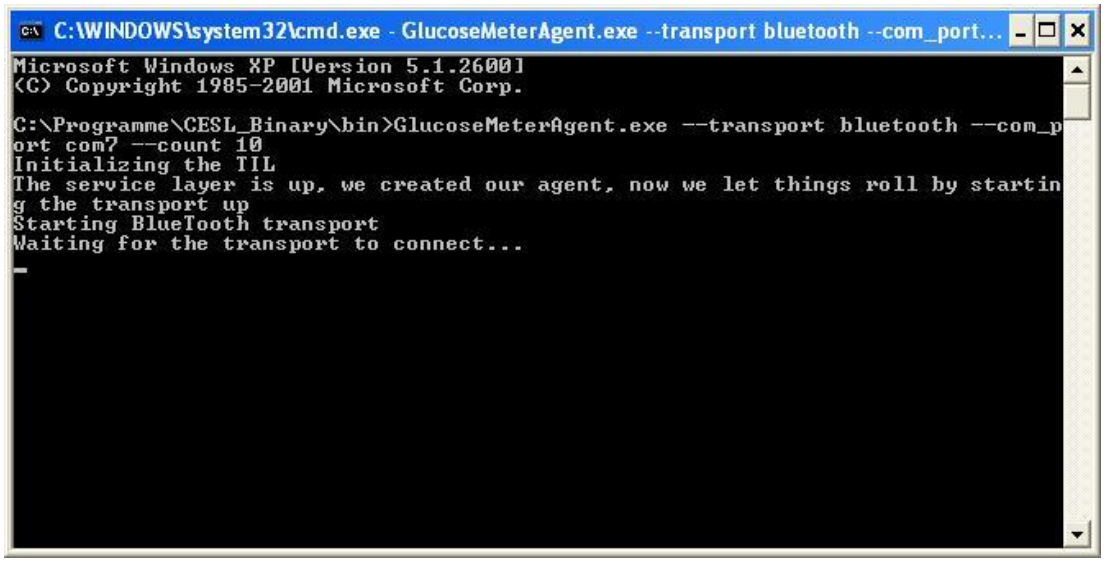
If the remote HDP device is listed in the “Device List” box, press “Connect” to initialize the connection process.

Now both devices are connected and ready to transfer data (3).



3.5 Using the CESL Agent with BlueDev+P25/G2/HDP

Open a command shell from the program directory of the CESL application folder (usually “C:\Programme\CESL_Binary\bin”) and start a CESL Agent using the command line (for example: “GlucoseMeterAgent.exe –transport Bluetooth –com_port com7 –count 10”)



Now the CESL Agent is ready to receive an incoming HDP Bluetooth connection from another HDP device.

4 Firmware Upgrade

Stollmann provides a tool for uploading firmware into a BlueHDP+USB via serial interface. The file name of the executable program consists of version and patch information.

For example a firmware version 1.404 will result in the executable file “P25G2_HDP_1_404_Setup_SR.exe”.

4.1 Stollmann BlueHDP+USB Serial Module Updater

Stollmann BlueHDP+USB Serial Module Updater serves as a tool for uploading a firmware file into a BlueHDP+USB.

The program requires a PC with at least one free COM port and Windows XP, Windows Vista or Windows 7 as operating system.

The upload is processed via the serial port the device is attached to.

- COM-Port
  The COM port the device is attached to
- Update
  Starts the update procedure

Press the „Update“ button to start the firmware update process.

Please wait while the update is being processed.

After the successful firmware update press the „Finish“ button and restart the device.

4.2 Troubleshooting

Update won’t start when using Stollmann BlueHDP+USB Updater

Check if the right COM port is selected and make sure the port is not used by other applications running.

Update process has been interrupted by power loss / Cable replacement on COM port

Redo the update by restarting the Stollmann BlueHDP+USB Updater.

Firmware won’t start after serial update

Power cycle the module. If the module is still not answering to any commands, redo the update with the Stollmann BlueHDP+USB Updater.

5 History

Version	Release Date	By	Change description
r01d01	21.10.2010	fh	First draft
r01	16.02.2011	Mb	First release

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E-mail: info@stollmann.de
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Regulatory Statements to be included in the Users Guide for Sputnik

USA-Federal Communications Commission (FCC)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna
-Increase the distance between the equipment and the receiver.
-Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Caution: Exposure to Radio Frequency Radiation.

To comply with FCC RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.