



BP/OMNIA Bridge

User Manual

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Overview

BP-OMNIA Bridge is a software (in C#) that allows Best Practice and OMNIA to communicate and to exchange personal details and spirometry results. The user can control and double check the data exchange using a basic graphic interface.

Pre-requisites

OMNIA and Best Practice need to be installed and setup as suggested by the manufactures.

Software versions:

- OMNIA v1.6.3 or higher (OCP v0.4)
- BP Premier "Lava Edition" (1.8.5.754) or higher (BP API v1.0.6)

Installation Procedure

Follow procedure below:



- 1) Right click and run as admin the **Setup.exe** file
- 2) Follow instruction clicking Next
- 3) The **AppConfig** program will be started automatically after the installation to setup Best Practice registry and the OCP of Omnia. The setting details are shown during the installation and saved in the autoConfigLog.txt in %PUBLIC%/Documents/BpOmniaBridge (double check it with Appendix A and B in case of issue)
- 4) Create new user login in Omnia (the bridge will use this credentials):
 - a. Login as **Admin**
 - b. Under **Utility/User Accounts**, click on **Users Management**
 - c. Click **Add User**
 - d. Fill the form with:
 - i. Username -> **ocp**
 - ii. First Name -> **BP Bridge**
 - iii. Unchecked **Change PWD @ 1st Login**
 - iv. Checked **PWD never expires**
 - e. Select **PFT Technicians** and **Physician** as roles
 - f. Logout
 - g. Type **ocp** as username and click Login
 - h. Insert as password and confirm password **bp** and click OK

How to Use It

Follow procedure below:

- 1) Create or open patient in Best Practice
 - a. Make sure to add/set the DOB, gender and ethnicity
- 2) Click Utilities/Spirometry
 - a. The Bp/Omnia Bridge should be called at this point
 - b. **While the bridge software is running, BP can't be used. Close the bridge software in case the test doesn't need to be performed**
 - c. The bridge will login in Omnia which will be highlighted, make sure to click the OK button on the right end inside if shown
- 3) **Error! Reference source not found.** Wait until the Patient and Visit Card are populated on the top bar, minimize (do not close it) the bridge if required
- 4) Double check Patient/Visit card data
- 5) Go ahead and perform the test as per usual (Pre and Post)



- 6) Click on the windows button  or minimize Omnia (do not close it) and click on the Bridge icon  in the task bar and click **Save Tests**
 - a. Wait while the bridge elaborates the data and generates the report in pdf
 - b. **Data successfully saved** should be shown at the end of the process
 - c. Clicking OK will close the bridge, so Best Practice can be used again
- 7) **Results in Best Practice:**
 - a. The PEFR is shown under Observation
 - b. The pdf report is saved under Clinical images (to customize the pdf report, refer to Omnia User Manual)

Appendix A – Best Practice Settings

As per documentation provided by manufacturer the BP register needs to be setup in order to have the path of the file *.exe of the bridge. This will allow BP to run the bridge when Utility/Spirometry is clicked. This is automatically set up during the installation of the bridge software. Here how it should look like:

[HKEY_LOCAL_MACHINE\SOFTWARE\Best Practice Software\Best Practice\Device **OR**

[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Best Practice Software\Best Practice\Device]

"SpiroPath" = "path of the bridge *.exe file"

"SpiroClass" = class name of the Form (something like that

WindowsForms10.Window.8.app.0.141b42a_r10_ad1 which could be find using Spy++)

"SpiroName"= BP - OMNIA Bridge

Appendix B – Omnia Settings

The bridge uses Omnia Control Protocol that needs to be enabled in the file ACS.XML which can be found in the folder %Public%\Document\Cosmed\CosmedLab. In the ACS.XML file, go to the <Bridge> node. Under this node, the <Control> node controls the configuration of the Omnia Control Protocol. Please edit the file as follow and **DO NOT TOUCH ANYTHING ELSE**.

<Bridge>

<Control ID="file" Value="xml" Item2="utf-8" Item3="temp_files folder"

Item4="OmniaXB" />

</Bridge>

The **item3** must be the folder where the Omnia and the bridge create/read/delete the files and it must be: %Public%\Document\BpOmniaBridge\temp_files

Furthermore, the bridge needs to login in OMNIA with specific rights so a new user needs to be created. Below the procedure:

- 1) Login as **Admin**
- 2) Under **Utility/User Accounts**, click on **Users Management**
- 3) Click **Add User**
- 4) Fill the form with:
 - a. Username -> **ocp**
 - b. First Name -> **BP Bridge**
 - c. Unchecked **Change PWD @ 1st Login**
 - d. Checked **PWD never expires**

- 5) Select **PFT Technicians** and **Physician** as roles
- 6) Logout
- 7) Type **ocp** as username and click Login
- 8) Insert as password and confirm password **bp** and click OK

Appendix C - Bp/Omnia Bridge Settings

The settings are saved in the file:

[Program File]/COSMED/BpOmniaBridge/BpOmniaBridge.exe.config

Where [Program File] depends on the operative system.

Open that file with a notepad or any test editor and **ONLY EDIT THE VALUE** of the following keys:

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <appSettings>
    <add key="OmniaPath" value="C:\Program Files (x86)\COSMED\Omnia\Standalone\CosmedLab.exe" />
    <add key="SavePdfFiles" value="true" />
    <add key="LogEnabled" value="true" />
  </appSettings>
</configuration>
```

OmniaPath -> used to run Omnia when clicking Utilities/Spirometry in BP

SavePdfFiles -> used to enable/disable the feature to save a copy of the report in the folder:

%PUBLIC%/Documents/BpOmniaBridge/pdf_files

LogEnabled -> used to enable/disable the feature to log the bridge activities