

Best Practice – OMNIA Bridge

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# Changes and Compatibility

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| **Date** | **Author** | **Notes** | **OCP v** | **BP API v** |
| 16/08/17 | Emanuele | First Draft | 0.4 | 1.0.6 |
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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.

# Goals

1. Transfer person details from BP into OMNIA to create/select the patient/visit card
2. Transfer spirometry results plus PDF report into BP from OMNIA
3. Have this as simple and automatic as possible

# Pre-requisites

There is no control on OMNIA and BP installation and settings therefore the 2 software’s need to be installed and setup as suggested by the manufactures.

Furthermore, the software has been developed and tested using the following software versions:

* OMNIA v1.6.3
* BP Premier “Lava Edition” (1.8.5.754) or higher

# Bridge setup

Below the settings need to make the bridge communicate with BP and OMNIA.

### Best Practice

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

### OMNIA

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:
   1. Username -> ***ocp***
   2. First Name -> ***BP Bridge***
   3. Unchecked ***Change PWD @ 1st Login***
   4. 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

# Code Documentation

The project is divided in 3 main parts:

1. Form
2. Omnia Command
   1. Command List
   2. Command Utility
3. Utility