

SpagoBI_BO_Engine.doc

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1 Version

Version/Release n° :	1.9.1	Data Version/Release :	October, 30 rd 2006
Update description:	SpagoBI BO Engine		

2 Document goal

This document provides an explanation about the compilation, installation and use of the SpagoBI BO Engine.

3 References

Some of the concepts of this document refer to the following documentation:

- SpagoBI business intelligence platform framework (available at <http://spagobi.eng.it/>)

4 SpagoBI BO Engine Installation

SpagoBI BO Engine, once installed, allows you to execute a Business Objects Report developed with the webi interface. The engine is compatible with the version 6.5.x of Business Objects.

4.1 How to compile

In order to compile SpagoBI BO Engine you need:

- Maven 2: be sure that maven 2 is installed on your computer and the mvn command is included into your system path.
- The source package (SpagoBIBOEngine-src-1.9.1beta.zip) of the SpagoBI BO Engine: download it from the SpagoBI Object Web page
- A licensed installation of Business Objects 6.5.x and its webi interface. (For the compilation you need to copy some files from the Business Objects installation to the SpagoBI BO Engine source directory)

To compile the engine read the Readme file contained into the source package and follow the instructions.

4.2 How to Install

Since Business Objects is a commercial software we can't provide the compiled version of the SpagoBI BO Engine because this compilation would depend on a specific BO license. Instead, if you compile the source package using the files and library contained into your licensed BO

installation, the resulting compilation is depended for your personal license. For this reason, before installing the engine, you need to download the source package and compile it (Look at the “How to compile” paragraph).

The compilation produces:

- A driver library (sbi.drivers.bo-1.9.1beta.jar) which performs the communication between SpagoBI and SpagoBI BO Engine application. Copy it into the folder WEB-INF/lib on your SpagoBI web application folder.
- A SpagoBI BO Engine application (SpagoBIBOEngine.war) which communicates with your Business Object server. Deploy it inside an application server. (Example: if you use Tomcat server, copy the war inside tomcat-home-dir/webapps directory)

4.3How to configure

Once installed the SpagoBI BO Engine driver library and web application you need to configure the engine link into your SpagoBI application. Enter the SpagoBI setting portlet and define a new external Engine with:

- url = “http://{server address}:{port}/SpagoBIBOEngine/BOServlet”. Obviously replace {server address} and {port} with the correct values for your application server where SpagoBIBOEngine.war was deployed
- driver name = “it.eng.spagobi.drivers.bo.BODriver”.
- document type = Report.

Since Business Objects needs to authenticate the user before doing any operation, this release of SpagoBI BO Engine must provide a user and a password. For all the SpagoBI users the access credential towards Business Objects will be the same. However you can use SpagoBI platform to configure the access to the different bo reports based on the user roles. You can change the common user and password used by SpagoBI BO Engine editing the web.xml file, contained into the WEB-INF directory of your SpagoBIBOEngine web application, and changing the value of the **BOUSER** and **BOPASSWORD** initial parameters.

5SpagoBI BO Engine Use

5.1How to integrate a BO report into SpagoBI

In order to integrate a BO wid report into SpagoBI you need to create a new SpagoBI Report object and associated it to the bo engine previously created (look at “How to configure” section). The template file of the document must have the following syntax:

```
<BO_DOCUMENT>  
  <REP_PROPS name="name report"
```

```
id="id report"
type="wid"
repository="name of the bo repository (Example:corporate)"/>
</BO_DOCUMENT>
```

Obviously you have to specify the name and the id of the bo report. The type attribute cannot be changed because this release supports only the reports developed using the webi interface. The repository value is the BO Repository where the report is contained and its value should be 'corporate'.

5.2 How to pass parameters to the BO report

If your BO report has some parameters you need to define a SpagoBI parameter for each one of them. The SpagoBI parameter must have url name equals to the bo parameter name. Obviously the value of the SpagoBI parameters will be used to fill the bo report. Some problem can occur if the parameter name of the bo report contains some special characters or the “.” character, so remove them from the parameter names.

5.3 How to change the output format

The SpagoBI BO engine supports HTML and PDF output formats. The default one is HTML. In order to choose the output format you have to define a parameter, only for the SpagoBI document, with url name 'OUTPUTTYPE' and value HTML or PDF

5.4 How to use the interface

Once created the SpagoBI document you can exec it. If the output format is PDF you will obtain a static pdf file. Instead, if the output is HTML, you will obtain as result the html of the report and a toolbar which allow you to interact with the report. The toolbar is shown in the upper part of the page.



Using the Toolbar you can :

1. Switch between different reports contained into the same BO document
2. Move to the first or previous page of the report
3. View the current page
4. Move to the last or next page of the report
5. Switch from the pagination mode to a unique page that contains the entire report

6. Switch from the view mode to the analytical mode which allows you to change the filter values and to add dimension filters

Once pressed the 'drill' button (number 6 in the previous image) the report switches into analytical mode and a new toolbar appears



Using the drill toolbar you can:

1. Change the value for a dimension filter
2. Open the new dimension filter menu
3. Add a new dimension filter
4. Close the dimension filter menu

Each dimension filter combo box has a value 'remove' and if you choose it you remove the dimension filter from the result and from the toolbar.