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Java Portal Integration Kit for Oracle 10

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1 Document History

Version	Date	Description
SAP BusinessObjects Business Intelligence platform 4.3	June 2020	Initial release.

2 About this guide

2.1 Overview

This guide provides information on installing and configuring the SAP BusinessObjects Business Intelligence platform 4.3 Portal Integration Kit.

Who should read this guide

This guide is intended for administrators who are responsible for installing the Portal Integration Kit. Familiarity with your portal server is beneficial, as is a working knowledge of SAP Crystal Reports and the BI platform system.

3 Installing the portal integration kit

3.1 Installation overview

Installing the SAP BusinessObjects Business Intelligence platform 4.0 Portal Integration Kit includes the following activities:

- Installing the web tier components of BI platform on your portal server machine
- Deploying the portal integration .war file on your WebLogic portal server
- Updating the web.xml file for the portal integration
- Creating the portal templates

The portlets enable you to integrate the report-viewing and distribution features of the BI platform. For more information about the BI platform architecture, search for "architecture" in the *SAP BusinessObjects Business Intelligence Platform 4.0 Administrator's Guide*.

3.2 Prerequisites

The installation procedures in this guide are written assuming the following systems are in place and able to communicate with each other:

- Business Intelligence platform
- Oracle WebLogic Portal

Portal environment requirements

In order for the portal integration to function, your portal environment must meet the following requirements:

- The portal server and Web Application Server (WAS) hosting the portal integration software must share a common domain.
- The web session timeout for the portal server must be equal to that of the WAS that will host the portal integration software.
- The portal server and WAS hosting the portal integration software must both use SSL or neither can use SSL; having only one of the two servers use SSL is not supported.

3.3 Installing the BI platform portlet

You must install the BI platform Portal Integration Kit on the same machine as your portal server, and you must be logged on with sufficient privileges to perform this operation.

The following procedures are required to install the BI platform portlet:

- Install the BI platform web-tier on your portal server machine.
- Deploy the portal integration WAR file to your portal server.
- Configure single sign-on (SSO) for your portal and BI platform (optional).

3.3.1 To install the BI platform web tier

1. Perform a custom BI platform installation on your portal server machine, selecting the web-tier only.

Note

For more information on installing BI platform, see the *BusinessObjects Business Intelligence Platform 4.0 Installation Guide*.

2. Create a folder on your portal server machine where you want to keep the portal integration files, then extract the .war file to this directory.

3.3.2 To deploy the portal integration .war mk file to your portal server

1. Copy the `com.sap.businessobjects.portlets.weblogic.war` file from the `<<InstallDir>>\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\warfiles\portlet\javaportlets\` folder on your BI platform deployment to your portal server machine.
2. Extract the .war file to a local directory.
3. On your Workshop for WebLogic (IDE), create a EAR project and WAR project.
4. With the WAR project open, select the Package Explorer and right-click [WebContent](#).
5. Select [Portal Web Project](#) [Import](#) . The import wizard appears.
6. Select [General](#) [File System](#) , and click [Next](#).
7. Select the folder to which you extracted the .war file, and click [OK](#).
8. Select all files in the directory—except the following files:
 - \META-INF folder
 - \WEB-INF\web.xml
9. Click [Finish](#).

3.3.3 To merge the web.xml files

1. From the folder where you extracted the `com.sap.businessobjects.portlets.weblogic.war` file, use Notepad or another text editor to open the `WEB-INF\web.xml` file.
2. Copy the text between the `<BO Start>` and `<BO End>` comment tags, including the opening and closing tags.
3. Using IDE, open the `\WebContent\WEB-INF\web.xml` file for editing.
4. Paste the text from the `WEB-INF\web.xml` file after the `</welcome-file-list>` tag, at line 11.
5. Add the following elements after the information you pasted:

```
<security-constraint>
<web-resource-collection>
<web-resource-name>Administrator's
Page</web-resource-name>
<url-pattern>/*</url-pattern>
<http-method>GET</http-method>
<http-method>POST</http-method>
</web-resource-collection>
<auth-constraint>
<role-name>PortalSystemDelegator</role-name>
</auth-constraint>
</security-constraint>
<security-role>
<role-name>PortalSystemDelegator</role-name>
</security-role>
```

6. Ensure the WebLogic war name matches the name in the `com.sap.businessobjects.portlets.weblogic.auth.war` file or the name assigned when you imported the files.
7. Save the `\WebContent\WEB-INF\web.xml` file.

3.3.4 To update the weblogic.xml

1. In the folder where you extracted the WebLogic .war file, locate the `weblogic.xml` file, and use Notepad or another text editor to open it for editing.
2. Add the following elements behind the closing tag of the `wls:library-ref` element:

```
<wls:security-role-assignment>
    <wls:role-name>PortalSystemDelegator</wls:role-name>
    <wls:principal-name>Administrators</wls:principal-name>
</wls:security-role-assignment>
```

3. Save and close the file.

3.3.5 To import the `com.sap.businessobjects.portlets.weblogic.sso.war` file

1. In IDE, select **File > Import**.
The Import wizard appears.
2. Expand **Web**, select **Web file**, and click **Next**.
3. On the **WAR Import** screen, browse, select `<InstallDir>\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\warfiles\portlet\javaportlets\com.sap.businessobjects.portlets.weblogic.sso.war`.

Note

If you use a different web project name, you must modify the WebLogic war name in the `web.xml` file of the portal WAR project to match the name you chose.

4. On the same screen, select the **Add project to an EAR and select the current EAR project name** check box, and click **Finish**.

There should be two WAR projects associated with a single EAR project. This WAR file is required to log on; do not modify the content of this WAR project.

3.3.6 To create portlet templates

1. Create a new portal for your BI platform content, or open a workspace for an existing page that you want to add the content to.
2. On the **Properties** tab, for **Layout Type**, select **Single Column Layout**.
3. Drag the Document List or Document View objects from the **design palette** to the desired location on the workspace.
4. Save the workspace.

3.4 Enabling trusted authentication

To allow portal users to access the information in your BI platform deployment without having to individually log on to the system, you can configure single sign-on (SSO) between the two systems.

Configuring SSO requires the following steps:

- Enable SSO on your BI platform system, generating a new shared secret key. For instructions, see the *SAP BusinessObjects Business Intelligence Platform 4.0 Administrator's Guide*.
- Save the new shared key on the WebLogic portal server machine, and configure WebLogic with its location.

Note

Trusted Authentication should not be enabled without HTTPS due to security reasons. If you have enabled Trusted Authentication without https, it is considered as breach of security as the URL is exposed to unauthorized users. To avoid security breach, the user's information can be validated with a valid certificate. For more information, refer to [1388240](#).

Systems using LDAP/SiteMinder or Windows AD/Vintela

Note

If your system uses LDAP with SiteMinder or Windows AD and Vintela for authentication, you do not need to enable trusted authentication.

To configure your system for SSO:

- Ensure the Central Management Server, portal server, and the client machine are properly configured to use LDAP with SiteMinder or Windows AD with Vintela.
- In `web.xml` of `com.sap.businessobjects.portlets.war`, set the authentication type to `secEnterprise`.
- When your users access the portlet, BI launch pad or OpenDocument will attempt to use SSO to generate a session for users.

3.4.1 To configure trusted authentication on the portal server

Before performing this procedure, enable Trusted Authentication on your BI platform system, and save a copy of the generated `TrustedPrincipal.conf` file in a local directory on the portal server machine.

Note

Trusted Authentication should not be enabled without HTTPS due to security reasons. If you have enabled Trusted Authentication without https, it is considered as breach of security as the URL is exposed to unauthorized users. To avoid security breach, the user's information can be validated with a valid certificate. For more information, refer to [1388240](#).

1. On your portal server machine, go the `C:\bea\user_projects\domains\<BI platform portal domain>\bin` directory.
2. Locate the `startWebLogic.cmd` file and use Notepad or another text editor to open the file.
3. Locate `set JAVA_OPTIONS=%SAVE_JAVA_OPTIONS%`, and add the following text:

```
-Dbobj.trustedauth.home=<C:\<Dir>\TrustedPrincipal.conf
```

Replace `<C:\<Dir>` with the location of the `TrustedPrincipal.conf` file on the portal server machine.

4. Save and close the `startWebLogic.cmd` file.

4 Deploying the portlets

4.1 About deploying portlets

By default there are two types of portlets that can be deployed on your portal server using the BI platform portal integration kit: Document View portlet and Document List portlet.

Document View portlet

This is the simplest type of portlet to create; when deployed, it displays a single report selected by the portal administrator.

Users see a report when the portlet appears and can navigate the report normally. However, users cannot navigate to other reports, unless the default report contains links to other reports. The portal page designer or administrator configures the content that appears in the portlet.

Document List portlet

This portlet provides many of the same features as BI launch pad. Users can navigate all reports they have access rights for, view personal folders, browse categories, and use the portlet to schedule report refreshes or manually refresh reports, search BI content, and set user preferences (if they have appropriate access rights).

4.1.1 To deploy a Document View portlet

1. Open the WebLogic Portal Administration Console, and log on as Administrator.
2. Create a new portal or open an existing portal to add BI platform content to.
3. Create a new desktop, using the [Select a .portal file](#) option.
4. Click [Edit](#) in the upper-right corner of the screen.
5. (SSO only) In the [CMS address for Single Sign-On](#) box, enter the address of your BI platform Central Management Server (CMS).
If you are not using SSO for your portal, go to the next step.
6. In the [OpenDocument URL](#) box, enter the URL for OpenDocument.
For example, enter `http://BOEServer:8080/BOE/OpenDocument/opendoc/openDocument.jsp`
7. Enter a width and height for the portal as needed.
8. Click [Next](#).
A [Document ID](#) box and a document list for the BI platform repository appear.

9. Perform one of the following actions:
 - If you know the CUID of the document to display, enter it in the *Document ID* box.
 - Use the document list to locate and select the document to display in the portlet.
10. Click *Submit Query*.

The document you selected will be previewed.
11. Close the window and return to the WebLogic console.

4.1.2 To deploy a Document List portlet

1. Open the WebLogic Portal Administration Console, and log on as Administrator.
2. Create a new portal or open an existing portal to add BI platform content to.
3. Create a new desktop, using the *Select a .portal file* option.
4. Click the *Edit* icon in the upper-right corner of the screen.
5. (SSO only) In the *CMS address for Single Sign-On* box, enter the address of your BI platform Central Management Server (CMS).

If you are not using SSO for your portal, go to the next step.
6. In the *BI launch pad URL* box, enter the URL for BI launch pad.

for example, enter `http://BOEServer:8080/BOE/BI`
7. In the *Portlet Width* box, enter **760** pixels, and in the *Portlet Height* box, enter **450** pixels.



These values are the minimum values; you can set a larger width and height as needed.
8. Click *Next*.

A preview of the document list portlet appears.
9. Close the window and return to the WebLogic console.

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