

BusinessObjects Enterprise XI and Enterprise XI Release 2

Installing BusinessObjects Enterprise on Oracle 10g Application Server

Overview

This document provides information and instructions for setting up BusinessObjects Enterprise XI and XI Release 2 on Oracle 10g Application Server.

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Introduction

This document provides information and instructions for setting up the InfoView and Central Management Console (CMC) on BusinessObjects Enterprise XI or XI Release 2 and Oracle 10g Web Application Server (WAS).

Before Getting Started

The following products or functionalities of products require a Business Objects Enterprise being pre-installed on the same box as the WAS.

- CMC.
- InfoView

Create Your Own OC4J Instance

This step is required for Oracle 10g WAS on UNIX. In Windows, if you are the only Oracle user, then you can skip this step and just use the default home OC4J instance or you can create your own instance.

To create your own instance, perform the following steps:

1. Logon to the Oracle Enterprise Manger 10g WAS Control with the following at URL <http://servername:1810> using the ias_admin account and appropriate password.
2. Create your own server by clicking **Home**, click the **Create OC4J Instance** button.
3. Specify the name of your OC4J instance, click the **Create** button and click **OK**.
4. In the **System Components** grid, check the OC4J instance you just created, and click the **Start** button.

Even though users have their own OC4J server, they have to share the same HTTP server port. There are potential conflicts if two users deploy WAR files on to the same context path. For InfoView, you can use a unique context path so it is not a problem. For the Central Management Console (CMC), you cannot change the context paths, so only one CMC can run on each Oracle 10g application server.

Configuring WAS for the InfoView and CMC

To configure the WAS for the InfoView and CMC there are certain steps to take which are discussed in the next sections.

Sourcing env.sh

Under Unix, <install_dir>/bobje/setup/env.sh contains most of the environment setup required to run Business Objects Enterprise smoothly. Source the env.sh to minimize the exceptions thrown by WCA when using CMC. You also need to add the path to cewcanative.jar, the Enterprise XI DLLs and utilities, and possibly modify some JVM options.

Adding the Cewcanative.jar file to the path

Cewcanative.jar contains all the JNI related classes needed for communicating with the C++ plug-in layer. It must be added to the Java Virtual Machine (JVM) system property java.class.path. It is required by the CMC. Cewcanative.jar is in the following location:

Windows:

\Program Files\BusinessObjects Enterprise 11.5\java\applications

UNIX:

<BOBJE_Home>/bobje/enterprise115/java/applications

1. Logon to the Oracle Enterprise Manger 10g WAS Control at URL <http://servername:1810> using the ias_admin account and appropriate password.
2. In the **System Components** page, click the **OC4J:<INSTANCE_NAME>** (Home or the one you created on which you want to deploy the WAR files).
3. Click **Administration > Global Web Module > General**.
4. Under the **Class Paths**, click **Add Another Row** button, specify the path of cewcanative.jar, click **Apply**, and click **OK**

Adding Enterprise XI DLLs and utilities to the path

1. While still logged on click **OC4J:<INSTANCE_NAME> > Administration > Server Properties > Add Environment Variable**.
 - For Windows:
 - i. In the Name field, add PATH.
 - ii. In the Value field, add C:\Program Files\Business Objects\BusinessObjects Enterprise 11\win32_x86, for example.
 - iii. In the Append field, check it.
 - For Solaris:
 - i. In the Name field, add LD_LIBRARY_PATH.
 - ii. In the Value field, add <install_dir>/bobje/enterprise115/solaris_sparc
 - iii. In the Append field, check it.
 - For AIX:

- i. In the Name field, add LIBPATH.
 - ii. In the Value field, add
<install_dir>/bobje/enterprise115/aix_rs6000,
 - iii. In the Append field, check it.
- For Linux:
 - i. In the Name field, add LD_LIBRARY_PATH.
 - ii. In the Value field, add
<install_dir>/bobje/enterprise115/linux_x86.
 - iii. In the Append field, check it.
2. Click **Apply** > **Yes** > **OK**.

JVM Heap Size

1. While still logged on click **OC4J:<INSTANCE_NAME>** > **Administration** > **Server Properties**.
2. In the Java Options field, append JVM heap control options and additional options such as the following:

-Xms256m -Xmx512m

NOTE	Xms = Initial JVM Heap size. Xmx = Maximum JVM Heap size.
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3. Click **Apply** > **Yes** > **OK**.

Deploying InfoView and CMC

To deploy the InfoView and CMC there are certain steps to take which are discussed in the next sections.

Determining the WAR files to Deploy

Some WAR files have dependencies on each other so must be deployed in a specific order. The admin.war file depends on jsfadmin.war, which depends on webcompadapter.war. WAR files with dependencies should be deployed in the correct order before WAR files without any dependencies.

WAR File	Part of	Context Path	Context Path Changeable
webcompadapter.war*	CMC	/businessobjects	no
jsfadmin.war **	CMC	/jsfadmin	no
admin.war	CMC	/businessobjects/enterprise115/adminlaunch	no

desktop.war	InfoView	/businessobjects/enterprise115/desktoplaunch	yes
adhoc.war	Crystal Reports Explorer ***	/businessobjects/enterprise115/adhoc	
AnalysisHelp.war	OLAP Intelligence ****	/AnalysisHelp	no
styles.war	OLAP Intelligence ****	/styles	no
jsfplatform.war	JSF Application Controls	/jsfplatform	yes

NOTES	<p>* If redeploying webcompadapter.war, redeploy jsfadmin.war, followed by admin.war.</p> <p>** If redeploying jsfadmin.war then also redeploy admin.war.</p> <p>*** Adhoc.war can be deployed by itself, or integrated with InfoView (but not CMC) to allow creating and modifying of Crystal Reports. Extra integration steps may be required which are beyond the scope of this document.</p> <p>**** These WAR files can be integrated into the InfoView and CMC to allow viewing of OLAP Reports. Extra integration steps may be required which are beyond the scope of this document.</p>
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Configuring the WARs

The Enterprise XI installation will configure the WAR files for you. If you have Business Objects Enterprise installed, you can locate these WAR files at the following locations:

Windows:

\Program Files\BusinessObjects Enterprise 11.5\java\applications

All Unix:

<BOBJE_Home>/bobje/enterprise115/java/applications

Please do not deploy the WAR files installed on one server to another server as they contain machine-dependent information (such as host name and paths), which may be incorrect on another machine.

If you want to deploy the WAR files installed on another machine, you have to manually configure the WAR files before deploying them.

Deploying the WAR files

1. Logon to the Oracle Enterprise Manger 10g WAS Control at URL <http://servername:1810> using the ias_admin account and appropriate password.
2. In the **System Components** page, click the **OC4J:<INSTANCE_NAME> > Application > Deploy WAR file** button.
3. In Web Application, give the location of the WAR file.
4. In Application Name, give a unique name for the application.
5. In Map to URL, give the correct context root.
6. Click **Deploy** button, wait until the deployment finishes, and click **OK**.
7. Repeat steps 2-6 to deploy all the WAR files to be deployed.

Verifying the Deployment

To verify the deployment in Windows test both URLs:

- Admin Launch Pad
<http://server:80/businessobjects/enterprise115/adminlaunch>
- Desktop Launch Pad
<http://server:80/businessobjects/enterprise115/desktoplaunch>

NOTE	The default port could be 7777 if 80 is used by other applications.
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To verify the deployment in Unix test both URLs:

- Admin Launch Pad
<http://server:7777/businessobjects/enterprise115/adminlaunch>
- Desktop Launch Pad
<http://server:7777/businessobjects/enterprise115/desktoplaunch>

Known Issues

There are some known issues with Oracle 10g WAS and our products which will be discussed in the next sections.

Unable to reopen outputStream

Unlike other web application servers, Oracle 10g WAS does not allow you to reopen outputStream. Some Business Objects code, especially that used for viewing Crystal Reports, assumes the application server

can reopen outputStream. When the code tries to reopen the outputStream, an error message appears:

```
"An error has occurred: OutputStream? already retrieved"
```

To enable viewing crystal report in DHMTL/Advanced DHTML viewer, locate the web.xml of desktop.war and set the **viewer.userjspwrite** parameter to **true**. This is a known issue and has been logged as ADAPT00392178.

Enabling UTF-8 for Oracle 10g and SAP

To enable UTF-8 for Oracle 10g and SAP, you have to enable the special filter to disable **HttpServletResponse.setLocale()** in the web.xml of desktop.war and jsfadmin.war. Remove comments around the <filter> section to enable the **SetEncodingFilter** filter in desktop.war and **NoSetLocale** filter in jsfadmin.war. This is a known issue and has been logged as ADAPT00381315.

Enabling Encyclopedia on SAP

To enable Encyclopedia on SAP, change the context parameter **encyclopedia.disable.gzip** in the web.xml of desktop.war to **true**. This is a known issue and has been logged as ADAPT00500534.

Useful File and Folder locations for Oracle 10g

Log

Windows:

```
C:\OraHome_1\j2ee\<OC4J Instance Name>\log
```

Unix:

```
/crystal/OracleAppserver10g/OraHome1/j2ee/<OC4J Instance Name>/log
```

Extracted WAR Folder

Windows:

```
C:\OraHome_1\j2ee\<OC4J Instance Name>\applications
```

Unix:

```
/crystal/OracleAppserver10g/OraHome1/j2ee/<OC4J Instance Name>/applications
```

Working Folder

Windows:

```
C:\OraHome_1\j2ee\<OC4J Instance Name>\application-deployments
```

Unix:

```
/crystal/OracleAppserver10g/OraHome1/j2ee/<OC4J Instance Name>/application-deployments
```

Port List File

<ora_home>/install/portlist.ini

Finding more information

For more information and resources, refer to the product documentation and visit the support area of the web site at:

<http://www.businessobjects.com/>

► www.businessobjects.com

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