Oracle FLEXCUBE Private Banking April 2012

Infrastructure Guide - Oracle BI Publisher in WebLogic 10.3.5

Oracle Part Number E51529-01



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Revision History

Date	Version	Description	Author
10-April-2012	1.0	Initial version	Sanjaya Kumar Sahoo
23-April-2012	1.1	Modified for deployment of Oracle BI publisher 10.1.3.4.2 version	Sanjaya Kumar Sahoo
26-April-2012	1.2	Added xdo.cfg configuration file for server based parameter.	Sanjaya Kumar Sahoo

> Introduction

This document explains the installation guide line of deployment of Oracle BI publisher 10.1.3.4.2 (xmlpserver.ear) to WebLogic 10.3.5

The installations consist of below steps:

- Pre condition for installation.
- Extraction of xmlpserver and deployment.
- Installation of xmlpserver
- Configuring the BI Publisher Repository and Installing Fonts.
- Creating data sources for BI publisher
- Configuring BI publisher Scheduler
- Installing sub templates in BI publisher
- Troubleshooting
- References

Pre condition for installation

- WebLogic 10.3.5 must be installation in system.
- Check the console by url http://{Host name}:{port name}/console.
- For e.g. by typing http://localhost:7001/console in browser we can see below weblogic console.



Extraction of xmlpserver and deployment

• Create an exploded archive directory names "xmlpserverlocation\xmlpserver\"

For e.g. in windows use below command C:\>mkdir c:\xmlpserverlocation\xmlpserver\

• Copy to xmlpserver.war to xmlpserver.

For e.g. in windows use below command -cp c:\xmlpserver\web\xmlpserver.war to c:\xmlpserverlocation\xmlpserver\

Where xmlpserver.war present in location c:\xmlpserver\web\

• Go to location c:\xmlpserverlocation\xmlpserver\

For e.g. in windows use below command cd c:\xmlpserverlocation\xmlpserver\

- Use below command to extract xmlpserver.war jar -xvf xmlpserver.war
- The directory **xmlpserver** and will be treated source path for weblogic while deployment.
- Copy **ojpse.jar** to **C:\xmlpserverlocation\xmlpserver\WEB-INF\lib.** You can get the jar from OBIEE installation directory or you can use below attached one.



ojpse.jar

Important: The ojpse.jar is required. Unless you will get "Class not found error" in weblogic.

Installation of xmlpserver

Open weblogic console



• Go to "Deployments"

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Deployments	the application directory or file	in the Path field.		
Security Realms	Note: Only valid file paths are	displayed below. If you cannot find your deployment files, upload yo	our file(s) and/or confirm that your application contains the required deployment de	escriptors.
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• Put the location as "C:\xmlpserverlocation\xmlpserver" (Please give appropriate path for machine other than windows)



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omain Structure Ser, domain "Deployments - Services - Services - Security Realms - Interoperability - Diagnostics	Optional Settings You can modify these settings or accept the defaults General What do you want to name this deployment? Name: xm[pserver] - Security What security model do you want to use with this application? © DD Only: Use only roles and policies that are defined in the deployment descriptors.
w do L Start and stop a deployed Enterprise application Configure an Enterprise application Create a deployment plan Target an Enterprise application to a server Test the moldules in an Enterprise application	Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor. Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console. Advanced: Use a custom model that you have configured on the realm's configuration page. Source accessibility How should the source fies be made accessible?
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• Select "I will make the deployment accessible from the following location"

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de I	Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
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• Click "Next"

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ase_domain B-Environment	Click Finish to complete the deployment. This may take a few moments to complete.	
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• Click "Finish"



Click "Save"



• Click "Deployments". You can see the state of deployment is failed. We will configure BI publisher repository which will resolve that issue.



Configuring Repository and Installing Fonts

• Copy the XMLP repository directory from your installation media to your one location say C:\Oracle\Middleware\user_projects\domains\base_domain.

Important: we can get XMLP from installation media or from any location where we have installed BI publisher previously. For example OBIEE is installed in windows, the XMLP location will be **D:\OracleOBIEEHome_1\xmlp (If installed in D: drive)**

• Go to C:\xmlpserverlocation\xmlpserver\WEB-INF you can find xmlp-server-config.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlpConfig xmlns="http://xmlns.oracle.com/oxp/xmlp">
<resource>
<file path="${oracle.home}/xdo/repository"/>
</resource>
</xmlpConfig>
```

We are going to change file path to C:\Oracle\Middleware\user_projects\domains\base_domain\XMLP

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlpConfig xmlns="http://xmlns.oracle.com/oxp/xmlp">
<resource>
<file path="C:\Oracle\Middleware\user_projects\domains\base_domain\XMLP"/>
</resource>
</xmlpConfig>
```

• Go the "Deployments" select xmlpserver then click "Update"

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• Click "Next"



• Click "Next"



• Click "Finish"

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You can see the state of xmlpserver is Active.

Login by http://{Host name}:{portname}/xmlpserver
 For e.g. <u>http://localhost:7001/xmlpserver/</u>



 Log in by User id: Administrator Password: Administrator

You can view BI publisher console

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• Copy the font files from the **fonts** on the install media to the font's directory of the Java Runtime Environment used by your J2EE container/application server. Then restart server.

Creating Data Sources for BI publisher

• Log in to weblogic console. E.g. in localhost http://localhost:7001/console/login/LoginForm.jsp



• Click "Services - > Data Sources "



• Click "New - > Generic Data Source "

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modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	JDBC Data Source Properties	
base_domain	The following properties will be used to identify your new JDBC data source.	
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System Status 🖃	What database type would you like to select?	
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 Provide below values in the screen Name – SchedulerDataSource JNDI Name - jdbc/BIScheduler Database Type – Oracle • Then click "Next"

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base_domain	The following properties will be used to identify your new JDBC data source.	
Deployments		
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- Select as Database Driver as above. Then click "Next" •

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Provide below values
 Database Name: fcpb21sun01 (e.g.)
 Host Name: 10.180.22.114 (e.g.)
 Port: 1521 (e.g.)
 Database User Name: dev120st (e.g.)
 Password: ********* (e.g.)
 Confirm Password: ********* (e.g.)

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- Then click "Next" • 🖉 Create a New JDBC Data Source - base_domain - WLS Console - Windows Internet Explorer 0 🗢 😰 http://localhost.7001/console/console.portal?CreateGlobal/DBCDataSourcePortlet_actionOverride=/com/bea/console/actions/jdbc/datasources/c 🔹 🗟 🍫 🗙 🔀 Go Q -File Edit View Favorites Tools Help X 🛛 McAfee' / 🔻 🚖 Favorites 🛛 🚔 🙋 Get more Add-ons 🔻 a | • | 🍘 Oracle BI Publisher 🏀 Create a New JDBC Dat... 🗴 | Tetrate thremaner Joec Units sources 🐴 💌 🔝 👻 🚍 🖶 💌 Page 🕶 Safety 🕶 Tools 🕶 🔞 🕶 😁 🝷 🏉 Oracle BI Publisher What is the database account password to use to create database connections? (Note: for secure password manag nent, enter the password in the Password field instead of the Properties field below Ξ System Status Health of Running Servers Password: Failed (0) Critical (0) Confirm Password: ••••• Overloaded (0) Warning (0) What are the properties to pass to the JDBC driver when creating database connections? OK (1) Properties: user=dev120st The set of driver properties whose values are derived at runtime from the named system property. System Properties: What table name or SQL statement would you like to use to test database connections? Test Table Name: SQL SELECT 1 FROM DUAL Test Configuration Back Next Finish Cancel ६ Local intranet | Protected Mode: Off 🖓 👻 🔍 100% 📘 0 - 😼 🖫 4:20 PM
- Click "Test configuration"

Monday 4/9/2012

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To Data Sources	What is the full package name of JDB	C driver class used to create database connections in the connect	don pool?	
Foreign JNDI Providers	(Note that this driver class must be in	the classpath of any server to which it is deployed.)		
Work Contexts				
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	What is the LIPL of the database to c	onnect to? The format of the LIPL varies by 1DBC driver		
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• You should get message as ""Connection test succeeded."

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• Click "Finish"

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Configuring BI publisher Scheduler

• Log into BI publisher web console. E.g. <u>http://localhost:7001/xmlpserver/login.jsp</u>

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Click "Admin" tab



Click "JNDI Connection"

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• Click "JNDI - > Add Data Source"

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- Provide below values
 Data Source Name: FCPB_BI_DS
 JNDI Name: jdbc/BIScheduler (Which is created earlier)
- Then click "Test Connection"

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Update Data Source: FCPB_BI_DS		
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- You should get message as "Connection established successfully."
- Click on "Admin" tab , then click "Scheduler Configuration"



• Select "Database Connection Type" as "Jndi". provide JNDI Name as "jdbc/BIScheduler"

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• Click "Test connection". You should get message as "Connection established successfully."

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• Click "Install Schema" button. It will install scheduler specific scripts in database. Once successfully done you will get successful message.

• Click on "Schedules" tab





You will get XML parsing error. We need to add
 -Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
 line in startWebLogic.cmd or startWebLogic.sh script.

The below is the some part of startWebLogic.cmd or startWebLogic.sh script. Please note that in the below highlighted position the above line must be added

if "%WLS_REDIRECT_LOG%"=="" (
 echo Starting WLS with line:
 echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% Dweblogic.Name=%SERVER_NAME% Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy %JAVA_OPTIONS%
%PROXY_SETTINGS% %SERVER_CLASS%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% Dweblogic.Name=%SERVER_NAME% Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy %JAVA_OPTIONS%
-Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
%PROXY_SETTINGS% %SERVER_CLASS%
) else (
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echo Redirecting output from WLS window to %WLS_REDIRECT_LOG% %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -Dweblogic.Name=%SERVER_NAME% -Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy %JAVA_OPTIONS% -Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform %PROXY_SETTINGS% %SERVER_CLASS% >"%WLS_REDIRECT_LOG%" 2>&1



)

Installing sub templates in BI publisher

- Copy Header.xsl (which is available WMOBIEEREPORTS module) and put it inside root of xmlpserver installation.
- Copy **subtemplate** folder (which is available WMOBIEEREPORTS module) and put it inside root of xmlpserver installation. The **subtemplate** folder contains all images.
- Change the PORT number in Header.xsl

 E.g. Example of one template declaration in Header.xsl
 <xsl:template name="Header">
 <fo:block>
 <fo:external-graphic
 src="url(http://localhost:7001/xmlpserver/subtemplate/Header.jpg)" content-width="auto"
 content-height="auto" scaling="uniform"/>
 </fo:block>
 </xsl:template>
- Create a file named as xdo.cfg (You can get this file in WMOBIEEREPORTS module) in XMLP\Admin\Configuration location. In this file we will define one server level parameter name as HTTP_SERVER_PATH. The configuration will be as below

```
<config version="1.0.0" xmlns="http://xmlns.oracle.com/oxp/config/">
<properties>
<property
name="xslt.HTTP_SERVER_PATH">'http://localhost:7001/xmlpserver'</property>
</properties>
```

The **HTTP_SERVER_PATH** variable contains HTTP url location of sub template. This variable will be used in all templates. In case of any changes in HTTP url, we will have to just change in xdo.cfg file.

• All reports those are importing Header.xsl, we have below line of codes

Below lines of code import xsl based subtemplate.

<?import:\${HTTP_SERVER_PATH}/Header.xsl?> <?call@inlines:CustomerReportHeader?><?end call?>

> Troubleshooting

• If you copy XMLP from one already installed BI server. So there chances that earlier installation will have configurations, so we need to change configuration of below quarts properties inside quartz-config.properties, which reside inside XMLP\Admin\Scheduler location.

org.quartz.dataSource.myDS.user org.quartz.dataSource.myDS.URL org.quartz.dataSource.myDS.password

Important: This is not require if you retrieve XMLP from direct media.

The below is the contains of quartz-config.properties

#Quartz configuration properties #Tue Apr 03 18:31:56 IST 2012 org.quartz.dataSource.myDS.maxConnections=5 org.quartz.scheduler.instanceId=AUTO org.quartz.scheduler.instanceName=BIPublisherScheduler org.quartz.dataSource.myDS.user=fcpb21dev org.quartz.jobStore.tablePrefix=QRTZ org.quartz.jobStore.class=org.quartz.impl.jdbcjobstore.JobStoreTX org.quartz.dataSource.myDS.URL=jdbc\:oracle\:thin\:@10.180.22.82\:1521\:fcpb11g org.quartz.dataSource.myDS.password=dev123 org.quartz.threadPool.class=org.quartz.simpl.SimpleThreadPool org.quartz.jobStore.useProperties=false org.quartz.threadPool.threadPriority=5 org.quartz.jobStore.isClustered=false org.quartz.dataSource.myDS.encryptedPassword=4169A1BACD8DA45254E410D98F4668F8 org.quartz.jobStore.misfireThreshold=60000 org.quartz.threadPool.threadCount=3 org.quartz.threadPool.threadsInheritContextClassLoaderOfInitializingThread=true org.quartz.jobStore.driverDelegateClass=org.quartz.impl.jdbcjobstore.oracle.OracleDelegate org.quartz.dataSource.myDS.driver=oracle.jdbc.OracleDriver org.quartz.jobStore.dataSource=myDS

> References

- http://docs.oracle.com/cd/E12844_01/doc/bip.1013/e12690/T434820T487783.htm
- FCPBS BI publisher installation guide BIPublisher_ReportRepository_SetupDoc.docx