



Oracle Business Intelligence Enterprise Edition 11.1.1.5

SAMPLE APPLICATION 10722 – DEPLOYMENT GUIDE

Disclaimer: This document contains instructions for deploying Sample Application (SampleApp) for Oracle Business Intelligence Enterprise Edition 11.1.1.5. SampleApp consists of comprehensive set of illustrative examples for OBIEE 11g. It is distributed as free content and it is not maintained or supported by Oracle as a licensed product.

Table of Contents

1	<i>Introduction</i>	4
1.1	Prerequisites.....	4
1.2	Content Organization	4
1.3	Known issue in V107	4
2	<i>Deploying Mandatory Components</i>	5
2.1	Laying Out Installation Files	5
2.2	Restoring Database Dumps	7
2.3	Creating Weblogic Server Users.....	8
2.4	Deploying analyticsRes in WLS.....	9
2.5	Deploying Metadata Dictionary Folder in WLS	11
2.6	OBIEE Configuration Settings	12
2.7	Configuring SampleApp Mapviewer Content.....	16
2.8	Deploying SampleApp BI Publisher Content	21
3	<i>SampleApp Action Framework Content</i>	24
3.1	Prerequisites.....	24
3.2	Deploying ActionSamples.ear	24
3.3	Adding Required Credentials.....	26
3.4	Configuring OBI EE Actions Framework files.....	27
3.5	Actions Commentary setup in Oracle Application Express (APEX).....	28
3.6	Restarting Services and Verifying the Install.....	32
4	<i>SampleApp Essbase Content (Optional)</i>	33
4.1	Prerequisites.....	33
4.2	Creating Essbase Data sources	33
4.3	Creating Cube Source for Essbase BIEE integration example.....	36
4.4	Configuration Settings	43
5	<i>SampleApp TimesTen Content (Optional)</i>	45
5.1	Prerequisites.....	45
5.2	Creating BISAMPLE_TT database	45
5.3	ODBC Settings	46
5.4	OBIEE Environment settings	48
6	<i>SampleApp MS SSAS Cube (Optional)</i>	49
6.1	Prerequisites.....	49

6.2	Attaching BISAMPLE SSAS cube	49
6.3	RPD Configuration Edits	50
7	<i>SampleApp ODI (Oracle Data Integrator) Content (Optional)</i>	52
7.1	Prerequisites.....	52
7.2	Configuring ODI Repository.....	52
7.3	Loading SAMP_REVENUE_F table	59
8	<i>Additional Optional Configurations</i>	62
8.1	Deploying Custom Skin.....	62
8.2	Reverting to SampleAppLite	64
8.3	Custom Authenticator Plug-In	65
8.4	Enabling BI Publisher Usage Tracking.....	65
9	<i>Appendix 1</i>	69

1 Introduction

The Oracle Sample Application (SampleApp) for Business Intelligence Suite Enterprise Edition Plus (EE) is a comprehensive set of illustrative examples and best practices for OBIEE 11g. It demonstrates a broad range of OBIEE 11g capabilities including Enhanced visualizations such as interactive dashboards, modeling best practices, Action Framework, BI Publisher, Scorecard and Strategy Management, Mobile style sheets, Semantic layer modeling, Multi-source federation and Integration with products such as Essbase, Oracle OLAP, ODM, TimesTen, ODI and so on.

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1.1 Prerequisites

Core components of Sample the following products to be installed and configured. Admin privileges on OBIEE and Oracle DB will be required to deploy SampleApp components.

- Oracle Business Intelligence Enterprise Edition 11.1.1.5, **Simple** install
- Oracle 11g R2 Database : OBIEE SampleApp deploys a set of small sized database schemas to support the examples

Optional components within SampleApp have the following prerequisites. They are required if and only you wish to configure SampleApp integration to these respective product related contents/ services.

- Oracle Essbase
- Oracle Application Express (required for Action Framework configuration)
- Oracle Data mining option for Oracle 11g R2 Database
- Oracle TimesTen 11g Database
- Oracle Data Integrator 11gR1 (11.1.1.3)
- Microsoft SQL Server 2008 with Analysis Services

1.2 Content Organization

The dashboards and analyses within SampleApp are grouped together by related functional/ product areas. It is sequenced and organised under dashboards as shown in the screenshot here.

Once SampleApp is deployed, navigate to “General Index” dashboard to see the full list of its contents. “Configuration” dashboard contains the setup details such as user credentials, database diagram, dimensional hierarchy diagrams, rpd physical, logical and logical hierarchy diagram and so on. Many of the other dashboard pages have inline help documentation on the contents exhibited on those respective pages/ analyses.



1.3 Known issue in V107

A dashboard in SampleApp build 10722 (Dashboard **3.10 Query Building > Selection Steps on hierarchies**) is mistakenly pointing to wrong catalog reports. Appendix 1 at the end of this document indicates the simple fix to point it back to appropriate content.

2 Deploying Mandatory Components

2.1 Laying Out Installation Files

Follow the instructions below in the sequence listed in order to lay out the installation files into appropriate directories under your OBIEE 11g installation –

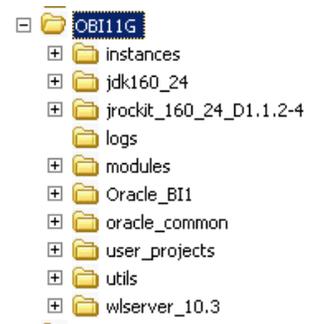
2.1.1 Configure Install script

- Download [SampleApp V10722 Installation ZIP Files from OTN](#) which contains installation files including database dump files
- Save the zip file on to the machine where OBIEE 11g is preconfigured, up and running.
- Use 7-zip (on windows) or unzip command (on Linux) to unzip the zip files to a directory of your choice on the machine. On windows environments, unzip file directly under C:\ or D:\ directory to avoid path length potential issues while unzipping. Some nested folder structure in the install can get quite long and create issues with Windows envs not supporting such long file paths. Placing them directly under a root drive will reduce the file path length and avoid a potential unzip issue. Detailed instructions for unzipping the installation files are provided in the README.txt file which is available at the same location as zip files.
- Edit the “installSA.bat” installation script using a text editor to specify correct values for the following variable names. “installSA.bat” file will be used on Windows/DOS environments and “installSA.sh” file will be used on Linux/Unix environments. Double check the values for following variable values. Incorrect values can result in incorrect setup or environment corruption :

OBIEE_INSTALL_HOME – this should contain full directory path to OBIEE installation, for example,

- Under Linux : /scratch/laliv/obi11g
- Under Windows : c:\OBI11G (as shown in the picture)

OBIEE_INSTANCE – this should contain the active instance folder name. It is set to “instance1” by default.



2.1.2 Run Install script

- Open a command line window and navigate to unzip folder. Execute “installSA.bat” (for Windows/DOS) or “installSA.sh” (for Linux/Unix) file from the command prompt. On Linux, you may have to change the permissions of the file in order to execute it (example – “chmod +x installSA.sh”). Once execute permissions are assigned you can execute the script from its directory as “./installSA.sh” or using the command “sh installSA.sh”

2.1.3 Troubleshooting Install Script

- When you execute installSA.sh on Linux, you may encounter the following error
-bash: ./installSA.sh: /bin/sh^M: bad interpreter: No such file or directory

If you encounter this error, then create a new file called installSA1.sh, copy and paste the contents of installSA.sh into the new file installSA1.sh. Then grant execute privileges on this new file using `chmod 777 installSA1.sh`. Now execute `installSA1.sh` to run the installer.

- If your OBIEE installation is of is of 'Enterprise' and not 'Simple' type, then your setup will have both AdminServer and bi_server1. In this case, the installer will give the following error while trying to copy a couple of files for Actions because the path needs to be bi_server1 instead of AdminServer

[INFO] Copying files for Actions

cp: target

`/app/oracle/product/obiee/11g/user_projects/domains/bifoundation_domain/servers/AdminServer/tmp/_WL_user/analytics_11.1.1/silp1v/war/res/b_mozilla/actions' is not a directory

cp: target

`/app/oracle/product/obiee/11g/user_projects/domains/bifoundation_domain/servers/AdminServer/tmp/_WL_user/analytics_11.1.1/silp1v/war/res/s_blafp/images' is not a directory

These two copy steps need to be manually executed with the appropriate paths on your setup.

- 1) Copy Comment.gif and NoComment.gif from your SampleApp install location /Actions/CommentaryArtifacts to the following two locations on your OBIEE install

/installhome/user_projects/domains/bifoundation_domain/servers/bi_server1/tmp/_WL_user/analytics_11.1.1/7dezl/war/res/b_mozilla/actions

and

/installhome/user_projects/domains/bifoundation_domain/servers/bi_server1/tmp/_WL_user/analytics_11.1.1/7dezl/war/res/s_blafp/images

- 2) Copy UserScripts.js from your SampleApp install location /Actions/CommentaryArtifacts to the following two locations on your OBIEE install

/installhome/user_projects/domains/bifoundation_domain/servers/bi_server1/tmp/_WL_user/analytics_11.1.1/7dezl/war/res/b_mozilla/actions

and

/installhome/ Oracle_BI1/bifoundation/web/app/res/b_mozilla/actions

C:\OBI11G\Oracle_BI1\bifoundation\web\app\res\b_mozilla\actions

- If your environment doesn't support neither batch nor shell scripts, then you will have to carry out the copy process manually before you proceed with the rest of the steps. Similarly if any part of the "installSA" script fails, retry the failed command and all the remaining commands manually. You may open the script using a text editor and refer it to understand the source and target files paths and the list of files to be copied.
- RPD file: The SampleApp.rpd file that is in the install directory does NOT need to be moved into your BIEE install. It will be used directly by EM administration process, and needs to be copied to the machine where you will run EM browser from.

2.2 Restoring Database Dumps

In this section, we will use Oracle data pump to import the definition and data for several database schemas. If any of these schemas exist, they must be dropped before you begin the import. In case they cannot be dropped, the schemas may be imported into different schema names using schema mapping options available for impdp command. If the schema names and/or passwords are changed, it will require additional corrections and configurations in SampleApp RPD.

Schema	Password	Remarks
BISAMPLE	BISAMPLE	Main schema that houses data for SampleApp analyses
OBIEE_NAVTEQ	obiee_navteq	NAVTEQ copyrighted data used for map views
BIFOD	BIFOD	OLTP 3NF model for FOD (Oracle Fusion Order Demo) data model.
BIBPM	BIBPM	BPM (SOA) Business Process Monitoring model to show how BIEE semantic layer can deliver analytics on BPM context
DEV_ODI_REPO	DEV_ODI_REPO	This supports the SampleApp Oracle Data Integrator content
ODI_STAGING	ODI_STAGING	This supports the SampleApp Oracle Data Integrator content

- From you SampleApp installation files, copy \DataSources\ORCL\SASCHEMAS.dmp file to the machine where Oracle database 11gR2 is up and running
- Unzip this file to a folder on the database server, say "C:\datapump"
- Connect to database using a sysdba user and create a directory object to import the database dump. Change the data base connection parameters (highlighted in red) to reflect your connection settings.
sqlplus "sys/Admin123@sampledb1 as sysdba"
create or replace directory datapumpdir as 'c:\datapump';
- Import the database dump using the command below.
impdp ""sys/Admin123@sampledb1 as sysdba"" directory=datapumpdir dumpfile=SASchemas.dmp
version=11.2.0.0.0 schemas=BISAMPLE,OBIEE_NAVTEQ,BIFOD,BIBPM,DEV_ODI_REPO,ODI_STAGING
LOGFILE=SASchemas_imp.log

NOTE:- Change the value of Version parameter depending on the version of your target database.

During the import process you may get the warning *ORA-39082: Object type*

VIEW:"BISAMPLE"."ODM_SAMP_CUSTOMERS_LTV" created with compilation warnings

This a known warning and can be ignored.

- Once the import is completed, connect back to the database using a sysdba user and execute the following sql commands.

To connect use - sqlplus "sys/Admin123@sampledb1 as sysdba"

```
alter user BISAMPLE identified by BISAMPLE;  
alter user OBIEE_NAVTEQ identified by obiee_navteq;  
alter user BIFOD identified by BIFOD;  
alter user BIBPM identified by BIBPM;  
alter user DEV_ODI_REPO identified by DEV_ODI_REPO;  
alter user ODI_STAGING identified by ODI_STAGING;
```

Next connect as obiee_navteq/obiee_navteq@sampledb1 and execute the following insert statements

```

insert into user_sdo_maps select * from obiee_navteq.my_maps;
insert into user_sdo_themes select * from obiee_navteq.my_themes;
insert into user_sdo_styles select * from obiee_navteq.my_styles;
insert into user_sdo_cached_maps select * from obiee_navteq.my_tile_cache;
commit;

```

2.3 Creating Weblogic Server Users

2.3.1 Start Weblogic AdminServer

On your server, navigate to: `\InstallHome\user_projects\domains\bifoundation_domain\bin` and run `startWebLogic.cmd` or `startWebLogic.sh` depending on your environment OS. You will be prompted with your Administrator credentials created during platform install. Bringing up this service may take a few minutes depending on your environment, wait until the command line

```

<Aug 25, 2010 10:32:06 AM CEST> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING>
<Aug 25, 2010 10:32:06 AM CEST> <Notice> <WebLogicServer> <BEA-000360> <Server started in RUNNING mode>

```

stops scrolling and indicates server in **RUNNING mode**. **Keep this command window up to keep server up.**

2.3.2 Importing Users in Weblogic

This step is required in order to have most of the SampleApp features to work. Make sure the FMW import happens properly on your environment.

- Open the weblogic Administration console online (<http://localhost:7001/console> use the login you created in BIEE installation to log in).
- From home screen, click on Security Realms link.
- Then select "myrealm" option.

Realms (Filtered - More Columns Exist)

<input type="checkbox"/>	Name ^
<input type="checkbox"/>	myrealm



- Go to the migration page tab. Go to the Import tab.
- In the 'Import Directory on Server', point to the directory where you saved the SampleApp Install files, navigate to the core folder and FMW_Users_Definition subdirectory within that.
- For e.g.:- `c:/SampleAppinstall/Core/FMW_Users_Definition`.

Settings for myrealm

Configuration Users and Groups Roles and Policies Credential Mappings Providers **Migration**

Import Export

- Click on Save. This should import all the SampleApp users into your environment. To confirm it, click on Users and Groups tab.

Settings for myrealm

Configuration **Users and Groups** Users

Import Export

<input type="checkbox"/>	Name ^	Description
<input type="checkbox"/>	abell	Adam Bell
<input type="checkbox"/>	aleigh	Alan Leigh
<input type="checkbox"/>	biadmin	
<input type="checkbox"/>	BIImpersonateUser	
<input type="checkbox"/>	BISystemUser	BI System User
<input type="checkbox"/>	dnoonan	Daniel Noonan
<input type="checkbox"/>	gandalf	Greg Andalf

- Verify that you can see the new users like abell, etc created now. You should be able to login using any of these users in OBIEE.

2.3.3 User Credentials

The list of users in this build is listed in the table below. Passwords for all SampleApp users imported, as well as the RPD encryption password is uniquely set to : **Admin123**

User	Login	Pwd	Source Directory	Data Visibility	Proxy Rights
MAIN USERS					
Paul Rodney	PRODNEY	Admin123	WLS	All	DNOONAN, GKENDAL, HMAYES, SBERGMA, SATKINS
Paul Rodney	PRODNEY	Admin456	OID	All	
OID Sample User	OIDUSER	Admin123	OID	All	All
ADDITIONAL USERS					
Adam Bell	ABELL	Admin123	WLS	All	All
Daniel Noonan	DNOONAN	Admin123	WLS	Custom LOB & Orgs	All
Gary Kendall	GKENDAL	Admin123	WLS	Custom LOB & Orgs	All
Helen Mayes	HMAYES	Admin123	WLS	Hierarchical Data Visibility	All
Roger James	RJAMES	Admin123	WLS	Fully Localized UI	All
Sophie Bergman	SBERGMA	Admin123	WLS	Hierarchical Data Visibility	All
Monica Velasquez	MVELASQ	Admin123	WLS	Hierarchical Data Visibility	All
Steve Atkins	SATKINS	Admin123	WLS	Hierarchical Data Visibility	All

2.4 Deploying analyticsRes in WLS

This step allows to point WLS to the file folder location where you have pasted custom files for SampleApp (Images, styles, messages...).

- Login to weblogic Administration console (<http://localhost:7001/console> use the login you created in BIEE installation to log in).
- Navigate to deployments area.
- Click on the Install button in the deployments area to install a new web application. (If Install button is not enabled, click on Lock & Edit on the left frame).

The screenshot shows the WebLogic Administration Console interface. On the left, the 'Domain Structure' tree is expanded to 'Deployments'. In the center, a message states 'No pending changes exist. Click the Release Configuration button to allow others to edit the domain.' Below this message are two buttons: 'Lock & Edit' and 'Release Configuration'. On the right, the 'Summary of Deployments' page is visible, featuring a 'Control' tab and a 'Monitoring' tab. The 'Install' button in the 'Deployments' section is circled in red.

- In the Install Application Assistant dialog, provide the path:

C:\installhome\instances\instance1\bifoundation\OracleBIPresentationServicesComponent\coreapplication_obips1

This should give the option to select analyticsRes as a valid application to deploy.

- Select analyticsRes and click on Next.

The screenshot shows the 'Install Application Assistant' dialog box. The 'Path:' field contains the path 'C:\OBI11G\instances\instance4\bifoundation\OracleBIPresentationServicesComponent\coreapplication_obips'. The 'Recently Used Paths:' field is empty. The 'Current Location:' field shows 'localhost \ C: \ OBI11G \ instances \ instance4 \ bifoundation \ OracleBIPresentationServicesComponent \ coreapplication_obips1'. Below the fields is a file explorer view showing a tree structure with 'analyticsRes (open directory)' selected, along with subfolders 'catalog', 'catalogmanager', and 'web'. At the bottom, there are 'Back', 'Next', 'Finish', and 'Cancel' buttons.

- In the next screen, choose the default option 'Install this deployment as an application' and click Next.

The screenshot shows the 'Install Application Assistant' dialog box with the 'I will make the deployment accessible from the following location' option selected. The 'Location:' field contains the path '/scratch/laliv/obi11g/instances/instance1/bifoundation/Ora'.

The screenshot shows the 'Install Application Assistant' dialog box with the 'Install this deployment as an application' option selected. The 'Choose targeting style' section is visible, with the text 'Targets are the servers, clusters, and virtual hosts on which th'.

- In the next screen, under the Source Accessibility section, choose 'I will make the deployment accessible from the following location'. Click Finish.
- In the deployment screen, confirm that the new application called analyticsRes is now available.

Deployments

	Name	State
<input type="checkbox"/>	adf.oracle.domain(1.0,11.1.1.2.0)	Active
<input type="checkbox"/>	adf.oracle.domain.webapp(1.0,11.1.1.2.0)	Active
<input type="checkbox"/>	analytics (11.1.1)	New
<input type="checkbox"/>	analyticsRes	distribute Initializing

- Click on 'Activate Changes'.
- Once this completes, start the deployment called 'analyticsRes'.

Deployments

	Name	State
<input type="checkbox"/>	adf.oracle.domain(1.0,11.1.1.2.0)	Active
<input type="checkbox"/>	adf.oracle.domain.webapp(1.0,11.1.1.2.0)	Active
<input type="checkbox"/>	analytics (11.1.1)	New
<input checked="" type="checkbox"/>	analyticsRes	distribute Initializing

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes

Undo All Changes

2.5 Deploying Metadata Dictionary Folder in WLS

This step is required to make metadata dictionary available within SampleApp.

✓ **IMPORTANT Note :**

The metadata dictionary folder name SampleApp_BI0001 in the path

installhome\instances\instance1\metadatadict\SampleApp_BI0001

should be the same as the rpd name that is online currently. If your rpd name has changed to say SampleApp_BI0002 or SampleApp_BI0003, then change the directory name of the SampleApp_BI0001 under metadatadict to the same name as the rpd.

2.5.1.1 Deploying the Dictionary in WLS

Within the weblogic Administration console screen, click on Deployments area.

- Click on the Install button in the deployments area to install a new web application. (If Install button is not enabled, click on Lock & Edit on the left frame).

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit

Release Configuration

Domain Structure

bifoundation_domain
+ Environment
+ **Deployments**
+ Services
+ Security Realms
+ Interoperability
+ Diagnostics

Domain Structure

bifoundation_domain
+ Environment
+ **Deployments**
+ Services
+ Security Realms

Summary of Deployments

Control Monitoring

This page displays a list of Java EE applications and stan (redeployed), or deleted from the domain by first selecti
To install a new application or module for deployment to

Customize this table

Deployments

	Name	State
<input checked="" type="checkbox"/>	adf.oracle.domain(1.0,11.1.1.2.0)	Active

- In the Install Application Assistant dialog, provide the path *installhome\instances\instance1\metadatadict*.



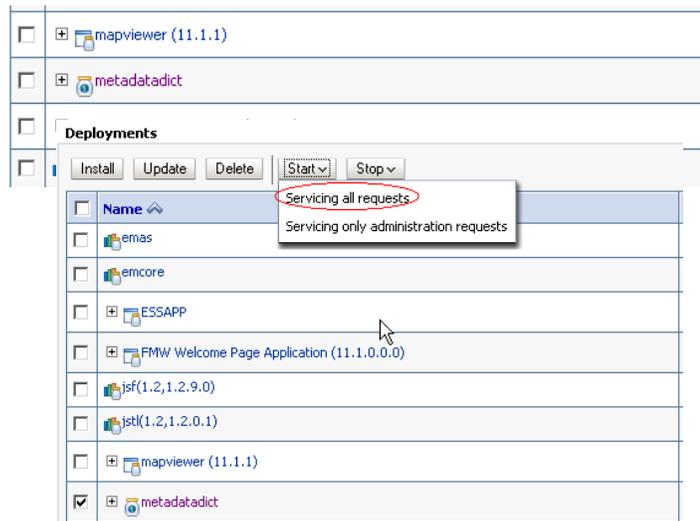
s should give the option to select metadatadict as a valid application to deploy. Select metadatadict and click on Next

- In the next screen, choose the default option 'Install this deployment as an application' and click Next.
- In the next screen, under the Source Accessibility section, choose 'I will make the deployment accessible from the following location'. Click Finish

I will make the deployment accessible from the following location

Location: /scratch/laliv/obi11g/instances/instance1/bifoundation/Ora

- In the deployment screen, confirm that the new application called metadatadict is now available.



- Click on 'Activate Changes'

Once this completes, start the deployment called 'metadatadict'

2.6 OBIEE Configuration Settings

2.6.1 NQConfig.ini Edits

Open NQConfig.ini file from the following location:

InstallHome\instances\instance1\config\OracleBIServerComponent\coreapplication_obis1

2.6.1.1 USER_REF_GUIDS

Make sure the following tag (in green) is set as shown below in your NQConfig file and save it :

```
->[SERVER]
...
FMW_UPDATE_ROLE_AND_USER_REF_GUIDS = YES;
```

2.6.1.2 USAGE TRACKING

The following entry is not mandatory, but will allow the usage tracking SampleContent to show data, it is advised that you set these tags as described :

```
->[USAGE_TRACKING]
ENABLE = YES;
...
DIRECT_INSERT = YES;
PHYSICAL_TABLE_NAME = "10 - System DB (ORCL)". "Catalog". "dbo". "S_NQ_ACCT";
CONNECTION_POOL = "10 - System DB (ORCL)". "UT Connection Pool";
```

2.6.2 Instanceconfig.xml Edits

Open Instanceconfig.xml file from the following location :

InstallHome\instances\instance1\config\OracleBIPresentationServicesComponent\coreapplication_obips1

Comment the following tag.

```
<Catalog>
  <UpgradeAndExit>>false</UpgradeAndExit>
</Catalog>
```

Make sure you have all the following tags (in green below) in the file, within the existing <ServerInstance> tag. Some of these entries may already be present in your file. Ensure that entries are made only once and are in appropriate locations.

```
<ServerInstance>
...
<SpatialMaps><LayerDataLayout><MaxRecords>1000</MaxRecords></LayerDataLayout></SpatialMaps>
<LightWriteback>>true</LightWriteback>
...
<ps:Catalog xmlns:ps="oracle.bi.presentation.services/config/v1.1">
  <ps:UpgradeAndExit>>false</ps:UpgradeAndExit>
  <ps:UpdateAccountGUIDs>UpdateAndStartNormally</ps:UpdateAccountGUIDs>
</ps:Catalog>
<LogonParam>
  <TemplateName>LogonParamSQLTemplate</TemplateName>
  <MaxValues>100</MaxValues>
</LogonParam>
<SubjectAreaMetadata>
<DictionaryURLPrefix>/metadatadict</DictionaryURLPrefix>
</SubjectAreaMetadata>
...
</ServerInstance>
```

2.6.3 RPD Edits

You need to have access to admintool for offline editing of your RPD to configure necessary changes for connectivity to your database system. The RPD is included in the 'Core' folder of the install package.

If you are using Linux environment, you need to access the rpd by editing it from a windows environment, using the OBIEE admintool client. The Admintool client can be downloaded from url:

<http://www.oracle.com/technetwork/middleware/bi-enterprise-edition/downloads/bus-intelligence-11g-165436.html>

✓ **IMPORTANT Note :**

Always open Admintool by opening the Start program menu, and navigating on to the menu icon within the Oracle Business Intelligence menu. Do NOT open the RPD simply double click on the RPD file or typing Admintool.exe in command line

Open Admintool then open the SampleApp.RPD file offline from your installer location :

RPD Password for opening offline : **Admin123**

2.6.3.1 Edit BI_EE_HOME Variable Value:

Navigate to Manage>Variables menu, double click on the BI_EE_HOME Repository Variable, update the default initializer string from its current value to the correct **full** path of the following directory on your BIEE install :

InstallHome\instances\instance1\bifoundation\OracleBI ServerComponent\coreapplication_obis1

For example, in a Linux environment, as an example, that value could be :

/scratch/laliv/obi11g/instances/instance1/bifoundation/OracleBI ServerComponent/coreapplication_obis1

2.6.3.2 Update RPD variables that contain database connection information

The connection pools setting uses repository variables to connect to the underlying database. You must update these variables to allow the RPD to properly connect. On the RPD click on Manage->Variables and update the following variables to appropriate values to connect to your database.

- DB_HOST - This variable holds the value of the database host machine.
- DB_PORT - This variable holds the value of the port.
- DB_SID - This variable holds the SID information.
- DB_USERNAME - This variable holds the database username. (Must be BISAMPLE)
- WLS_HOST - This host information should be the computer name (or IP) of your Weblogic Server host.

2.6.3.3 Update Session variables that contain Essbase connection information

Following session variables and init blocks are used by Essbase Option for connection pools setting. If you are planning to deploy Essbase option you must update the initiation of these variables to allow the RPD to properly connect. On the RPD click on Manage->Variables and update the following session variable and init block to appropriate values to connect to your databases :

- Verify DUAL Cube Name (=BISAMPLE) - This variable holds the name of the Sample Essbase cube
- Verify DUAL ESSB HOST - This variable holds the name or IP of Essbase host server

Make sure you update the init block default SQL to return the proper value. Also edit the default value for each variables.

2.6.3.4 Update Database Password in RPD connection pools

If you have not changed the OOB password for BISAMPLE user (pwd = 'BISAMPLE'), then there should be no edit needed in the RPD. If you have changed the value of the password for the BISAMPLE user, you need to edit password values for all the Connection Pool entries in RPD that use the above variables with your correct password value.

2.6.3.5 Update settings with RCU db for Scheduler Connection Pool

The values in "Scheduler Connection Pool" under "07 – Scheduler Jobs" database need to be updated to point to the BIPLATFORM schema that is installed during OBIEE installation. In the connection pool, update the data source name with the appropriate values of database host, sid, port, username and password of the BIPLATFORM schema.

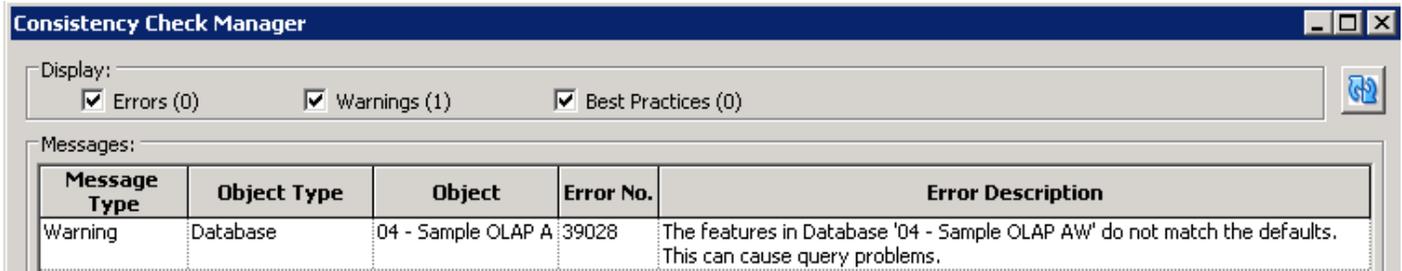
✓ **Note :**

The BIPLATFORM schema is the one that is used during the OBIEE installation process.

2.6.3.6 Expected Consistency Warnings

✓ **Important : Expected Consistency Warning**

Run a consistency check of your RPD. You should see the single following consistency warning message :



This warning is expected; do not try to fix it. Fixing it would break the OLAP API functionality. In case you see other errors or warnings coming up, please process previous steps again starting from the original RPD.

2.6.3.7 Save your offline RPD.

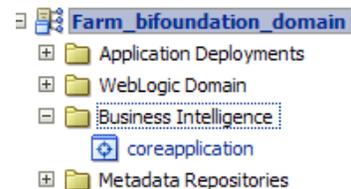
2.6.4 Setting the default rpd and webcat paths through EM

Login to the EM administration screen using the url <http://localhost:7001/em> (Replace the hostname and port-number based on your setup)

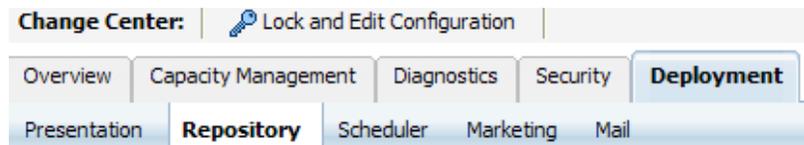
2.6.4.1 RPD and Webcat selection

2.6.4.1.1.1 RPD selection

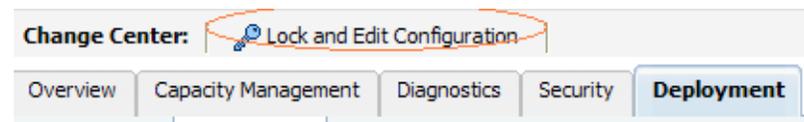
- Use the login you created in BIEE installation to log in to the EM console.
- Expand 'Business Intelligence' node on the left and choose Coreapplication.



- Now click on the Deployment tab on the right. Next, go to the Repository tab.



- Click on 'Lock and Edit Configuration' to enable you to change the default settings.



- In the 'Upload BI Server Repository' section, click on the Browse button and locate the SampleApp.rpd that you updated with correct connection information, on your client machine.
- Enter Admin123 as the password (this is the offline password for SampleApp.rpd)
- Keep on the same configuration screen to update webcat selection

2.6.4.1.1.2 Webcat selection

Your platform install, does not yet point to SampleApp catalog, you need to update the path at the bottom of the same EM screen, with the location looking like this.

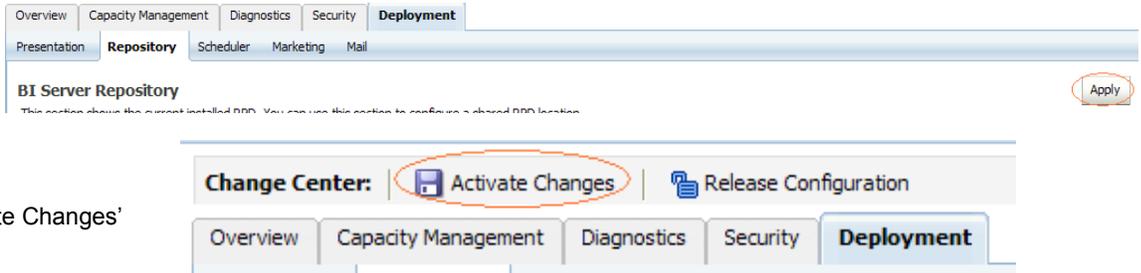
\$ORACLE_INSTANCE/bifoundation/OracleBIPresentationServicesComponent/\$COMPONENT_NAME/catalog/XXXXXX.

Change the path to point to SampleApp Webcat so the location looks like this.

\$ORACLE_INSTANCE/SampleAppWebcat

2.6.4.1.1.3 Apply changes

- Click on Apply (top right corner of screen)



- Click on 'Activate Changes'

2.6.4.2 Enable Caching

EM screen also offers you the possibility of turning OBIEE cache on or off. Leaving cache set to off will allow to see physical SQL logs for every query. Performance should not be of issue with the low data volume in the sample database. To Switch Cache off, click on tab 'Capacity Management', sub-tab 'Performance'. Disable cache there and click on Activate changes.

2.7 Configuring SampleApp Mapviewer Content

Confirm that WLS server and WLS managed servers are up and running, and make sure OMPNCTL is not running (neither OBIS nor OBIPS are running). Stop BI Server and Presentation Server if they are running.

2.7.1 mapViewerConfig.xml Edits

Open the Mapviewer console (Login with the username/password that you provided while installing the product). Select Management option and click on configuration under 'Manage MapViewer' page. This will open the mapViewerConfig.xml on your setup. Example: <http://10.146.219.202:7001/mapviewer/faces/admin/admin.jspx>



Make the following change to the xml file:

2.7.1.1 <security_config>

In the <security_config> property of this file, make the following changes:

Change the <proxy_enabled_hosts> property to the following :

Substitute the hostname, IP address and port to the correct values on your setup.

(NOTE:- There are 4 entries here. Two of them refer to the hostname and while two refer to the ip address of the machine where OBI is installed. Update all 4 entries to the hostname and ip address on your setup)

```
<proxy_enabled_hosts>
http://localhost:7001/mapviewer,http://localhost:7001/,http://10.178.221.72:7001/,http:// 10.178.221.72:7001/mapviewer
</proxy_enabled_hosts>
```

Substitute any entries with these tags with the property entries below: If the entry already exists, confirm that the value is as shown below. If the entry does not exist, then add a new entry with the value given below.

```
<disable_direct_info_request> true </disable_direct_info_request>
<disable_info_request> true </disable_info_request>
<disable_csf>true</disable_csf>
<enforce_security_role> true </enforce_security_role>
```

2.7.1.2 Predefined Data Sources

At the end of the file, in the section named 'Predefined Data Sources', add the following data source entry. Replace the ipaddress, sid and port to the correct values of the database where the obiee_navteq schema has been created in the above steps.

```
<map_data_source name="OBIEE_NAVTEQ_Sample"
  jdbc_host="10.229.147.238"      (use your db ip)
  jdbc_sid="orcl"                (use your db sid)
  jdbc_port="1521"              (use your db port)
  jdbc_user="obiee_navteq"
  jdbc_password="!obiee_navteq" (use your selected password if different from OOB)
  jdbc_mode="thin"
  number_of_mappers="3"
  allow_jdbc_theme_based_foi="false"
/>
```

Make sure all tags have been closed correctly and also make sure the above data source is not within the comments section (ensure that it is outside the comments section which is represented by <!-- .. -->)

2.7.1.3 Save & Restart, Verify

Click on Save & Restart button at the bottom of the file. Once it is restarted, Click on Data sources. You should now see OBIEE_NAVTEQ_Sample as an entry there. To confirm that the Mapviewer configuration is working, choose the Map Tile Layer called OBIEE_WORLD_MAP and click on 'View Map / Manage tiles' option. In the window that opens up, click on the 'Show Map' button. This should display the world map. Repeat the steps for the Map Tile Layer called OBIEE_WORLD_MAP_FAST and confirm that the world map is displayed.

2.7.2 Configuring Google Maps

- Click on "Manage Tile Layers". Click "Create"

- Select Google Maps as Tile Layer Type

Select "Google Maps" as type of map source. Click "Continue"

- Enter "key"

On the tile layer properties page, enter a valid value for the key. Select a data source from the Data Source dropdown. Click "Submit". Test the tile layer by selecting the tile layer from the list of layers and click "View Map / Manage Tiles"

Select name	value
<input type="checkbox"/> lib_url	http://maps.google.com/maps?tile=
<input type="checkbox"/> key	ABQIAAAAPmEH0N8Ns3k2hWZE
<input type="checkbox"/> map_type_values	MVC000gTnctcy-MAP_TYPE_RO
<input type="checkbox"/> map_type_names	Road Hybrid Shaded Satellite
<input type="checkbox"/> version	2



2.7.2.1 Obtaining a Google Maps API Key

Open URL <http://code.google.com/apis/maps/signup.html> in your browser. Log in to Google with a google.com user id. Read the Terms & Conditions. Enter the URL of your web site. Click "Generate API Key". Copy and store this key value in a safe place. Use this key value when creating tile layers in MapViewer.

I have read and agree with the terms and conditions ([printable version](#))

My web site URL:

2.7.3 Known mapviewer error

On some of the dashboard pages with maps, you might see the error Fail to load “/mapviewer/fsmc/jslib/oraclemaps.js”. An immediate workaround to this problem is to refresh the screen and the map should show up.

To fix it permanently, make the following changes to the mapviewer configuration. Edit the file web.xml located under the folder */InstallHome/Oracle_BI1/bifoundation/jee/mapviewer.ear/web.war/WEB-INF*

In this file, search for the string 'mime'. Insert the full tag shown below just after the first <mime-mapping> tag, as shown in the picture (tag to insert is highlighted)

```
<mime-mapping>
<extension>js</extension>
<mime-type>text/javascript</mime-type>
</mime-mapping>
```

```
<mime-mapping>
  <extension>html</extension>
  <mime-type>text/html</mime-type>
</mime-mapping>
```

```
<mime-mapping>
  <extension>js</extension>
  <mime-type>text/javascript</mime-type>
</mime-mapping>
```

```
<mime-mapping>
  <extension>txt</extension>
  <mime-type>text/plain</mime-type>
</mime-mapping>
```

Save the file. Clear browser cache and restart WLS services. This should fix the problem.

NOTE:- Note that this has not yet been officially tested with OBIEE 11.1.1.5.0 by QA, so this MapViewer patch is provided on an as-is basis

2.7.4 Removing drop-shadow effect on graphs

By default, whenever a chart is created, there is a drop-shadow effect on it. This property makes it difficult to read some of the SampleApp charts. In order to turn it off this property, edit the file dvt-graph-skin.xml from the following location on your installation.

InstallHome\Oracle_BI1\bifoundation\web\msgdb\s_blafp\viewui\chart

- Edit the <Graph> tag, add the attribute visualEffects="NONE". (Do not remove the rest of the contents in the file). After editing, the contents should look like this.

```
<Graph visualEffects="NONE">
```

```
<SliceLabel>
```

```
<!-- decimalDigitUsed is false here so that non-percentage pie slices do not pick up this value
```

```
    The DVTChartProcessor sets decimalDigitUsed to true if this is a percentage pie slice -->
```

```
<ViewFormat decimalDigit="2" decimalDigitUsed="false"/>
```

```
</SliceLabel>
```

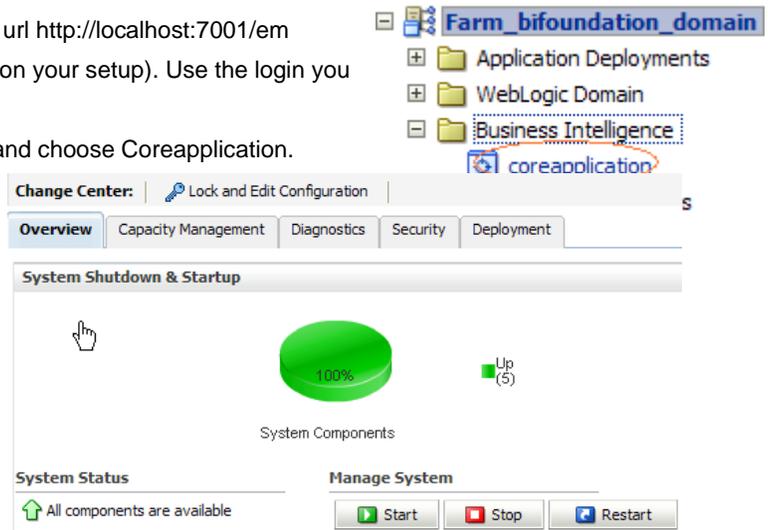
```
</Graph>
```

- Save the file.

2.7.5 Start BIEE services and login

2.7.5.1 Starting services From EM screen

- Login to the EM administration screen using the url <http://localhost:7001/em> (Replace the hostname and port number based on your setup). Use the login you created in BIEE installation to log in.
- Expand 'Business Intelligence' node on the left and choose Coreapplication.
- Click on the Overview Tab,
- Click on blue button 'Restart' (or green button 'Start') under the Manage System category, middle of screen,
- Click yes on dialog box to confirm the move. Wait for message that confirms successful restart.



✓ **Note :**

If starting using EM is not successful and complaining about OPMNCTL not up, please follow starting process with OPMNCTL

2.7.5.2 Start services using OPMNCTL

You don't need to complete this step if you have started the services successfully using EM (previous step)

- Open a command prompt, navigate to `InstallHome\instances\instance1\bin`
- run "opmnctl status, this will show you status of all the OBIEE core services
- run "opmnctl startall" or "opmnctl stopall" depending on your need.

2.7.5.3 Login into <http://localhost:7001/analytcs>

The list of possible users is given in section **Error! Reference source not found.**

2.7.5.4 Verify the Spatial & Mapviewer connection

- Login to Answers.
- Go to Administration --> Manage Map Data.
- Click the "Layers" tab.
- Click the "Add Layer" link. The data source dropdown at the top should contain at least one entry, one of which should be "OBIEE_NAVTEQ_Sample".
- Click the OBIEE_NAVTEQ_Sample entry. It should populate the listbox with all available layers in the data source "OBIEE_NAVTEQ_Sample".
- Check the tabs "Background Maps" and "Images" and ensure that you can see "OBIEE_NAVTEQ_Sample" entry.

If you do not see "OBIEE_NAVTEQ_Sample" entry, try one or more of the following.

- Clear your browser cache
- Restart Mapviewer service
- Restart OPMN service
- Leave the system idle for a few minutes after making the above configurations.

Now confirm that you can now see "OBIEE_NAVTEQ_Sample" entry under "Layers", "Background Maps" and "Images" tab.

2.8 Deploying SampleApp BI Publisher Content

The BI Publisher Samples depend on a few data sources. Some of these are set up as part of the installation. Others will require manual configuration through the BI Publisher Admin pages. We will cover all here.

✓ **Note**

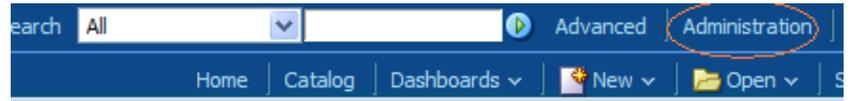
The Oracle Sample OE schema needs to be installed as part of the database samples in order for some of the BI Publisher examples to work.

- From the web UI – <http://localhost:7001/analytics> -- logged in as a user with Admin permissions, click on the Administration link.
- Next, click on Manage BI Publisher.

This will open a single Administration tab and six groups of links e.g. in the upper left side you should see the

Data Sources

- From Administration, click the link for JDBC Connection



BI Publisher

Manage BI Publisher

Manage BI Publisher data sources, scheduler configur



2.8.1 Create the “BISAMPLE” JDBC connection.

Click on the Add Data Source and provide details of your database where BISAMPLE schema was installed, Use the “Test Connection” button to ensure it is connecting correctly. Note that you must name the JDBC connection exactly as BISAMPLE for many of the reports to run.

2.8.2 Create the “Essbase” JDBC connection

Go to the OLAP tab under Data Sources. Click on Add Data Source and provide details of your Essbase database where you sample cubes are restored. Use the “Test Connection” button to ensure it is connecting correctly. Note that you must name the JDBC connection exactly as Essbase for many of the reports to run.

2.8.3 “Oracle BI EE” JDBC connection

Inspect the “Oracle BI EE” JDBC connection. Use the “Test Connection” button to ensure it is connecting correctly.

2.8.4 “demo” data source

NOTE:- The OE schema referenced below needs to be as part of the database samples schema installation.

Edit the “demo” data source to use a real database connection. You will need to configure “demo” to use an oe (Order Entry) schema available in all Oracle Databases. You may need to unlock the OE schema. Like above, the data source needs to remain “demo”.

Data Sources

JDBC JNDI File LDAP OLAP

Add Data Source

Data Source Name	Connection String
demo	jdbc:oracle:thin:@HOST:PORT:SID

Inspect the File data source “demofiles”. From the operating system see that there are .xml demo files present in the directory.

Data Sources

JDBC JNDI File LDAP OLAP

Add Data Source

Data Source Name	Directory
demo files	/scratch/laliv/obi11g/user_projects/domains/bifoundation_domain/config/bipublisher/repository/DemoFiles

2.8.5 Grant access to data sources to BI Author & BI Consumer roles

For users to be able to see data when they run BI Publisher reports, the BI Author & BI Consumer roles must be granted access to data sources.

- Under Administration URL in OBIEE web interface, click on ‘Manage BI Publisher’ link
- Then click on the link ‘Security Center’ and select Roles and Permissions.
- In the Add Data Sources column, click the “key” icon for the BI Author role.

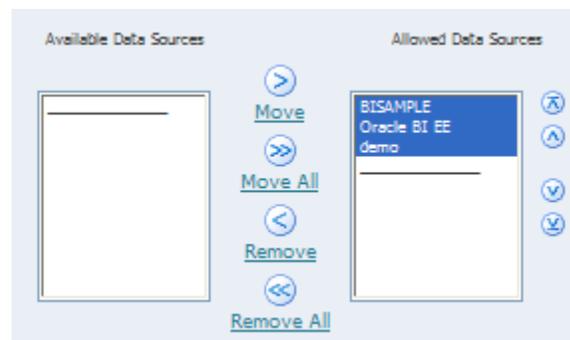


Security Center

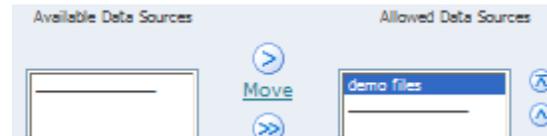
Security Configuration Roles and Permissions Digital Signature

Role Name	Description	Add Data Sources
BIAdministrator		
BIAuthor		
BIConsumer		
BISystem		

- Under Database Connections, add the BISAMPLE, Oracle BIEE, & demo data sources to the Allowed Data Sources list.



- Under File Directories, add demo files to the Allowed Data Sources list.



- Under OLAP connections, add Essbase to the Allowed Data Sources list
- Click Apply.
- Repeat steps 2 – 5 to grant access to the BI Consumer role to the data sources BISAMPLE, Oracle BIEE, demo, Essbase & demo files.



3 SampleApp Action Framework Content

This paragraph describes how to deploy Action Framework SampleApp content with BIEE services.

From your SampleApp install folder, navigate to subfolder 'Actions'. This folder contains all the necessary files for deploying SampleApp Core content.

3.1 Prerequisites

All the steps to deploy SampleApp Core content successfully completed. IN PARTICULAR: IT IS REQUIRED THAT YOU HAVE PROPERLY IMPORTED FMW_Users_Definition as part of the Sample App core install process. Make sure you have completed this step as described in the paragraph 2.4 of this document. To validate that this setup is properly active, you should be able to login in Answers with credentials abell/Admin123.

3.2 Deploying ActionSamples.ear

3.2.1.1 OPTIONAL: customizing Sample Actions services (editing Jdev Project)

NOTE: the file " ActionsSamples V3 (Jdev_project).zip" can be found in the SampleApp install folder \Actions\ActionsDefinitions This is the Jdev source project that was used to create this .ear file. This Jdev project is not needed to run SampleApp, but is included as part of the install incase user needs to customize the Sample actions services, or is interested in seeing the details of their setup.

3.2.2 Deploying Sample Actions services in WLS

- Logon to weblogic Administration console using the url http://hostname:7001/console (use your hostname instead). Use the username/password that you provided while initial install of the product.
- Click on Deployments link under 'Domain Structure'. Click on the Install button on the Deployments page on the right. (If the Install button is not enabled, then click on the 'Lock & Edit' button under Change Center on the left)

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit

Release Configuration

Domain Structure

- foundation_domain
 - Environment
 - Deployments**
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

Summary of Deployments

Control Monitoring

This page displays a list of Java EE applications and stan (redeployed), or deleted from the domain by first selecti

To install a new application or module for deployment to

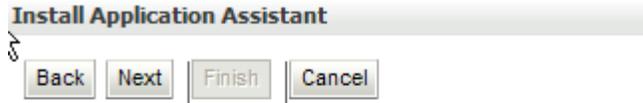
Customize this table

Deployments

Install Update Delete Start Stop

<input type="checkbox"/>	Name ^
<input type="checkbox"/>	adf.oracle.domain(1.0,11.1.1.2.0)
<input type="checkbox"/>	adf.oracle.domain.webapp(1.0,11.1.1.2.0)

- In the first screen, it lets you locate the deployment to install. Modify that the path to the following */InstallHome/instances/instance1/bifoundation/OracleBIServerComponent/coreapplication_obis1/sample/SampleAppFiles/Actions*
Choose the ActionSamples.ear



- Click on Next. The next screen lets you Choose the targeting style. Choose the default option 'Install this deployment as an application' and click on Next.

Choose targeting style

Targets are the servers, clusters, and virtual hosts on which th

Install this deployment as an application

- In the Optional Settings screen, enter ActionSamples in the Name field. For the remaining options, go with the default selections. and click Next.
- In the final screen, click on Finish.
- When you see the Overview page for the Actionsamples, click on Activate Changes button under Change Center on the left.

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes

Undo All Changes

- Now click on the Deployments link. In the Deployments page, confirm that you can see the entry for ActionSamples that you just created. Choose ActionSamples, click on Start->Servicing All Requests option.

Deployments

<input type="checkbox"/>	Name
<input type="checkbox"/>	+ ActionSamples

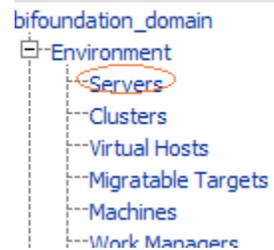
3.2.3 Editing ActionSamples WSIL files with correct URLs

3.2.3.1 Identifying ports used by your own install

On your installation, verify the port number on which WLS and bi_server1 are listening. The weblogic Administrator console is by default running on 7001. This could be different on your setup. To check the port number, click on Servers.

Check the 'Listen Port' field. If this is 7001, then you do not need to perform the following steps. However if different, then go through the following steps.

Domain Structure



<input type="checkbox"/>	Name	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)		adc6141153	RUNNING	OK	7001

3.2.3.2 Open inspection.wsil from

/InstallHome/user_projects/domains/bifoundation_domain/servers/bi_server1/tmp/_WL_user/ActionSamples/XXXXXX/war/

Look for the following entry : location="http://localhost:7001/ActionSamples/OrderProcessPort?wsdl"

Replace the port number with the **WLS** port on your setup. After making the update, confirm that you can paste the url on a browser and see the definition.

3.2.3.3 Open Builtin.wsil from

/InstallHome/user_projects/domains/bifoundation_domain/servers/bi_server1/tmp/_WL_user/ActionSamples/XXXXXXX/war/

Look for the following entry : location="http://localhost:7001/analytics/saw.dll?wsdl"

Replace the port number with the **ANALYTICS** port on your setup. After making the update, confirm that you can paste the url on a browser and see the definition.

3.2.3.4 Open secure.wsil from

/InstallHome/user_projects/domains/bifoundation_domain/servers/bi_server1/tmp/_WL_user/ActionSamples/XXXXXXX/war/

Look for the following entry : location="http://localhost:7001/ActionSamples/CreditRatingPort?WSDL"

Replace the port number with the **ANALYTICS** port on your setup. After making the update, confirm that you can paste the url on a browser and see the definition.

3.3 Adding Required Credentials

3.3.1 Option 1 : Use Python Script

Open a command prompt, navigate to the folder Action_Definitions and execute the following command.

/InstallHome/oracle_common/common/bin/wlst "CreateCred.py" username password t3://localhost:7001

Egg:- On a Linux environment , the command would look like this.

/scratch/laliv/obi11g/oracle_common/common/bin/wlst.sh "CreateCred.py" weblogic password1 t3://localhost:7001

NOTE:

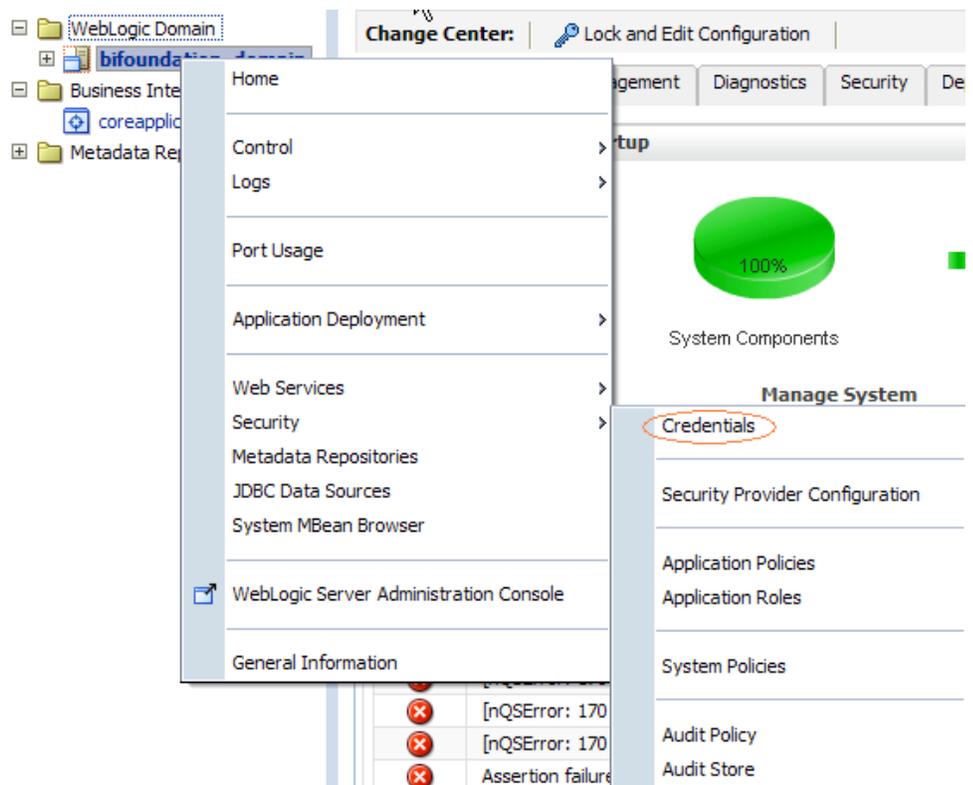
If the CreateCredentials.py is not in the directory current directory, then provide the full path to the file.

Replace username and password with you OBIEE install login username and password.

If the credentials already exist on your setup, then the above command will fail with an error message that the credential already exists.

Once the script executes successfully, it should create the required credentials. To confirm, log into EM at <http://localhost:7001/em>.

Expand the tree menu on the left to show items under Weblogic domain, then right click on the on the bifoundation_domain, select the Security menu from the choices, then select Credentials



In the credential store config screen, confirm that you have the following entries created.

MapName	Keyname	Type
oracle.wsm.security	keystore-csf-key	Password
oracle.wsm.security	enc-csf-key	Password
oracle.wsm.security	sign-csf-key	Password
oracle.bi.actions	JNDIUser	Password
oracle.bi.enterprise	wsil.browsing	Password

3.3.2 Option 2 : Add Required Credentials Manually (Alternate Method)

It is highly recommended that you add the credentials by following the method described in section 3.2.4 (which uses a script to create the credentials). If that method did not succeed for some reason and you wish to create the credentials manually, then follow the steps given below.

Log in to EM at <http://localhost:7001/em>. Expand the tree menu on the left to show items under Weblogic domain, then right click on the on the bifoundation_domain, select the Security menu from the choices, then select Credentials

3.3.2.1 New Keys in oracle.wsm.security

In the credential store config screen, click on the button marked "+ Create Map", and add a new map named oracle.wsm.security. Next click on "Create Key". You should add the following 4 keys to the oracle.wsm.security map:

Keyname	Type	Username	Password
keystore-csf-key	password	owsm	Admin123
enc-csf-key	password	orakey	Admin123
sign-csf-key	password	orakey	Admin123

3.3.2.2 New Keys in oracle.bi.actions

Repeat previous step for a map called oracle.bi.actions, and create one single key under this map :

Keyname	Type	Username	Password
JNDIUser	password	abell	Admin123

3.3.2.3 New Keys in oracle.bi.enterprise

In the existing map named oracle.bi.enterprise, create keyname wsil.browsing.

Keyname	Type	Username	Password
wsil.browsing	password	abell	Admin123

3.4 Configuring OBI EE Actions Framework files

3.4.1 Edit ActionFrameworkConfig.xml

Open ActionFrameworkConfig.xml from

[/InstallHome/user_projects/domains/bifoundation_domain/config/fmwconfig/biinstances/coreapplication](#)

3.4.1.1 Port Entry and Aliases

Look for the entries 7001 and replace it with the analytics port number on your setup. (only if 7001 is not the port number on your setup).

Confirm that all the urls setup in to the Alias tag point to correct urls, otherwise fix them with correct port and machine name.

```
- <aliases>
- <location-alias>
  <alias>actionsrv</alias>
  <actual>localhost:7001</actual>
</location-alias>
- <location-alias>
  <alias>biserver</alias>
  <actual>http://localhost:7001/analytics/saw.dll?WSDL</actual>
</location-alias>
</aliases>
```

3.5 Actions Commentary setup in Oracle Application Express (APEX)

Oracle Application Express needs to be installed and configured for the Commentary dashboard page under 4.1 Actions dashboard in SampleApp webcat to work. This dashboard page showcases how you can add and modify comments on a report using Application Express.

3.5.1 Install pre-requisites

Oracle Application Express 4.0.1 (or above) needs to be installed on your database server machine. This can be downloaded from <http://www.oracle.com/technetwork/developer-tools/apex/downloads/index.html>

Once this is done, install APEX listener 1.0.2 (or above) and configure it to your APEX on your database. APEX Listener can be downloaded from <http://www.oracle.com/technetwork/developer-tools/apex-listener/downloads/index.html>

APEX listener can be configured to run on a standalone mode or can be deployed within your WLS. Once the APEX listener is configured and running, note the port number on which it runs. This information needs to be updated in a few places as describe in section 3.5.2.2

3.5.2 Import Commentary Workspace within APEX

3.5.2.1 Login to APEX Admin

Login to your APEX environment using the url similar to http://localhost:8080/apex/apex_admin

NOTE:- Replace the hostname and the port according to your setup. Enter the admin username and password on your setup.

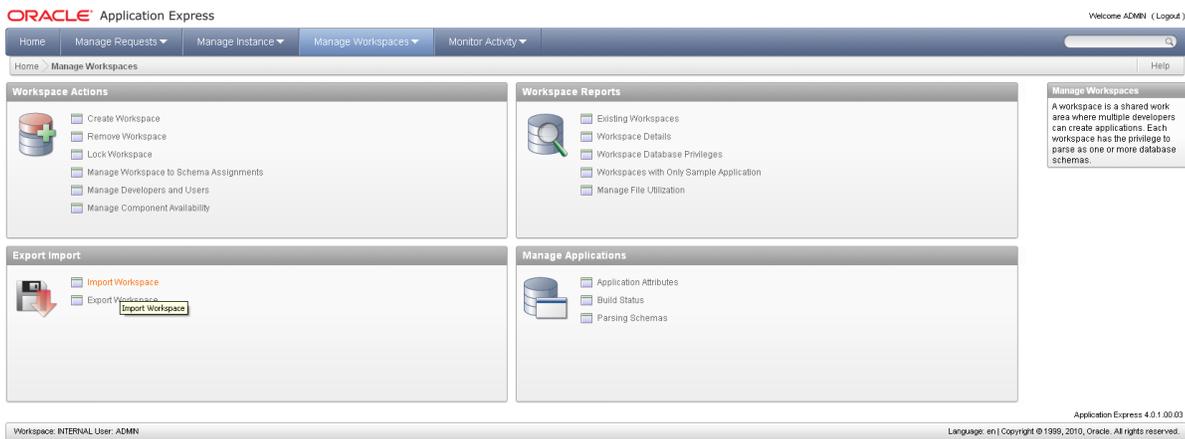
Manage Workspaces

The screenshot shows the Oracle Application Express Administration interface. At the top, there's a navigation bar with 'Home', 'Manage Requests', 'Manage Instance', 'Manage Workspaces', and 'Monitor Activity'. Below this, there's a 'Manage Workspaces' section with a 'Create Workspace' button. The main content area is divided into several sections: 'Instance Administration' with icons for Manage Requests, Manage Instance, Manage Workspaces, and Monitor Activity; 'Pending Requests' with a message stating the instance is in manual provisioning mode; 'Jobs' with a table of scheduled jobs; 'Workspace Summary' with a table of workspace statistics; and 'Security Settings' with a table of security parameters. A right-hand sidebar contains 'Administration', 'Provisioning', 'Manual', 'Instance Tasks', 'Workspace Tasks', and 'Language Selector'.

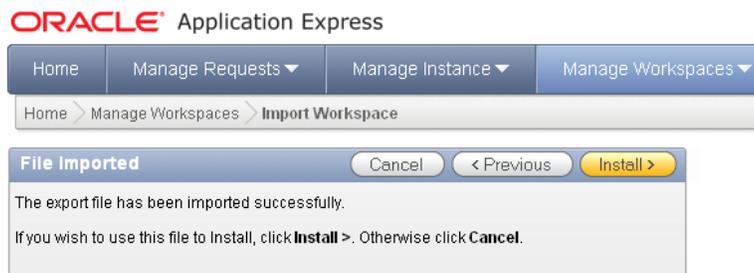
Workspace	Count
Workspaces	1
Schemas	1
Applications	2
Users	3
Mail Queue Entries	0
Worksheets	0
SQL Scripts	0

Setting	Value
Require HTTPS	No
Maximum Session Idle Seconds	3600
Expire User Accounts	No
Maximum Login Failures	999
Password Lifetime Days	999
Require Strong Admin Password	No
Allow RESTful Access	Yes

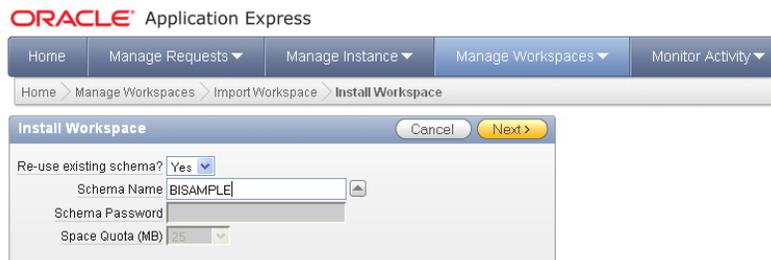
Next, click on Manage Workspaces and then Import Workspaces



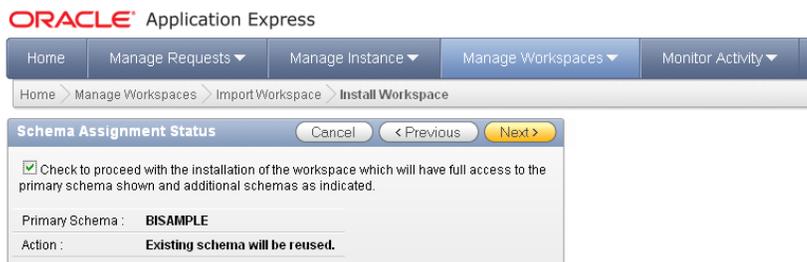
- Browse to COMMENTARYWSpace.sql which can be found on your SampleApp install files under folder Actions\CommentaryArtifacts



- In the Install Workspace screen, choose Re-use Existing schema as Yes and choose BISAMPLE as the schema.



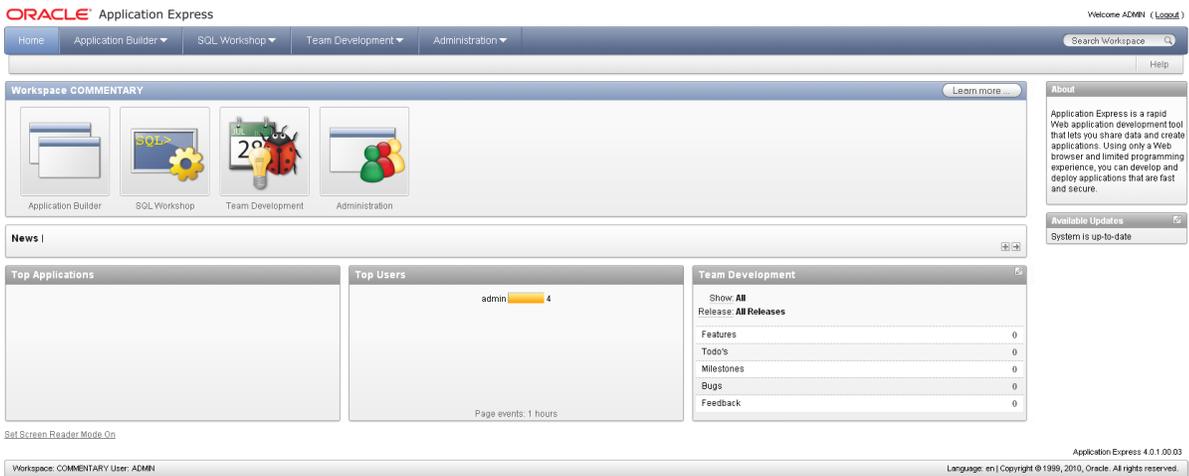
Click on the Check box and click Next



Click on Install Workspace. This should install the Commentary workspace.



- Login to COMMENTARY Workspace with admin/welcome1. You may be prompted to change the password when you login for the first time.

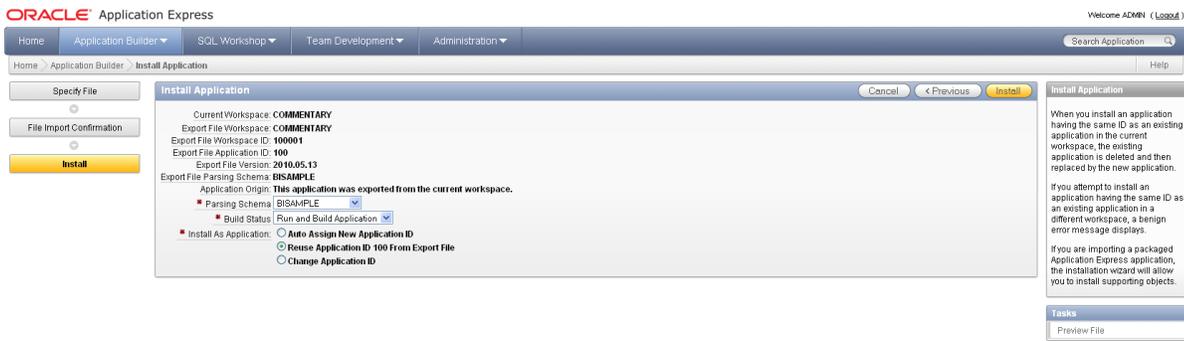
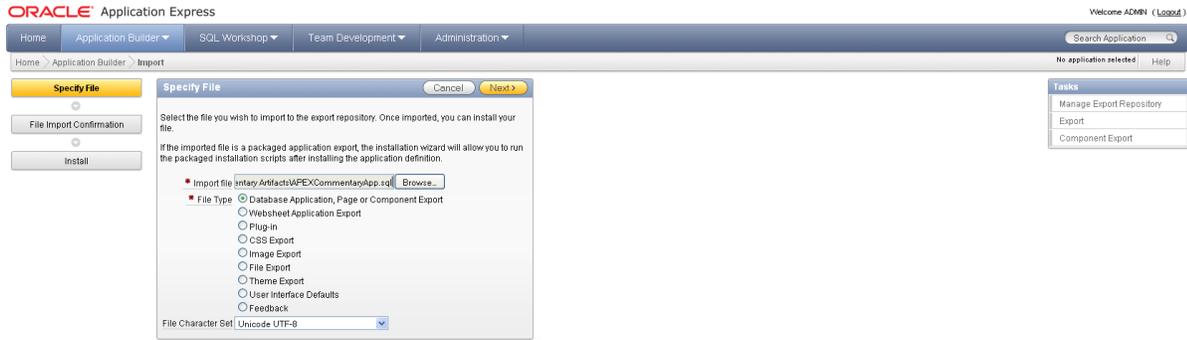


- Go to Application Builder



- Select 'Import' to Import the Commentary application
- Re-Use the Application ID from the file (If you already have an Application with ID 100 installed on your setup, then choose 'Auto Assign New Application ID'. If you choose a new Application ID, then update this new ID along with the

APEX listener updates described in section 3.5.2.2. Instead of 100 that is used in the URL for APEX, use the Application ID that is generated when you import your application.



- Test by Running the Commentary application using username/password admin/welcome1 (you will not be able to add a comment here).
- Check that you can see the APEX form by running the Commentary Application.

3.5.2.2 Update Apex listener settings

NOTE:- If you imported the Application with a different ID (other than the default 100), then replace 100 in the following sections with the appropriate Application ID in your environment.

The port on which APEX listener is running on your setup needs to be updated in the following places.

1) Edit UserScripts.js from the following two locations

/installhome/user_projects/domains/bifoundation_domain/servers/AdminServer/tmp/_WL_user/analytics_11.1.1/silp1v/war/res/b_mozilla/actions

and

/installhome/ Oracle_BI1/bifoundation/web/app/res/b_mozilla/actions

Look for the following line

```
targUrl = "http://localhost:8080/apex/f?p=100:1:::::P1_COMMENT_ID:" +  
argValue;
```

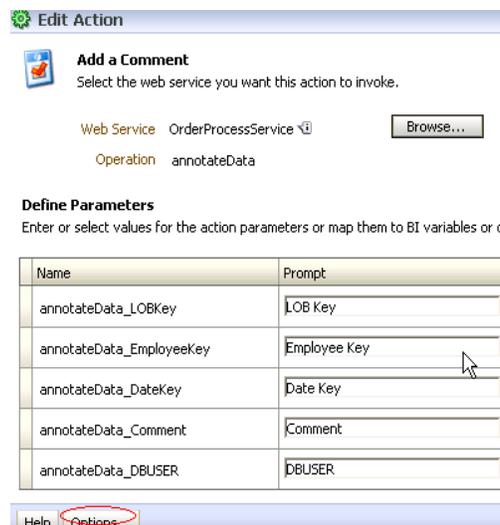
Replace the servername and the port to the appropriate values of the APEX listener on your setup. Also, if you application ID is not the default value of 100, then update it to the right application ID value.

2) In the SampleApp folder, go the following location

/Shared Folders/4. Actionable Intelligence/Actions/Functional Examples/Commentary and Annotations

Following Actions need to be edited with the correct APEX listener settings

- Edit the 'Add a Comment' action. Click on Options. Go to Action Results tab. In the Dialog text, edit the APEX listener address to point to your server and port.
- Edit the 'Edit Comment' action. Update the URL to point to your APEX listener server and port.



3.6 Restarting Services and Verifying the Install

- Restart WLS
- Restart OBIEEservers via OPMNCTL or via EM
- Login to analytics. Go to the catalog, 4. Actionable Intelligence and Actions folder within that.
- Execute any of the action saved in the folders by providing the appropriate input values.

4 SampleApp Essbase Content (Optional)

This paragraph describes how to deploy the SampleApp Oracle OLAP content. This deployment is optional and comes in addition to SampleApp Core deployment.

From your SampleApp install folder, navigate to subfolder 'Essbase'. This folder contains all the necessary files for deploying SampleApp ESSBASE content

4.1 Prerequisites

All the steps to deploy SampleApp Core content successfully completed.
Access to an Essbase server installed and configured.

NOTE: to have full features of OBIEE integration with Essbase working, you need to run Talleyrand version of Essbase server, or. If you do run earlier Essbase server release, you need to apply appropriate Essbase patch to fix integration bugs, otherwise not all BIEE features will work. Refer to OBIEE/ Essbase SRSP for more details, or contact PM for more details.

4.2 Creating Essbase Data sources

4.2.1 Building the Sample Cube

To create the application, please perform the following steps:

1. Open Essbase Administration Services
2. Select and expand the target Essbase Server.
3. Select the 'Applications' node.
4. On the toolbar select File > New > Aggregate Storage Application
5. Enter "BISAMPLE" as the Application name
6. On the toolbar select File > New > Database
7. Select "BISAMPLE" from the list of Applications
8. Enter "Sample" as the database name and select OK
9. Select File > Open
10. Navigate to the file location of the 'sample.otl' file
11. Select the 'sample.otl' file and select OK.
12. Select File > Save As
13. Navigate to the 'Essbase Server' tab in the dialog
14. Double-click on the "BISAMPLE" application in the displayed list
15. Double-click on the "Sample" database
16. Double-click on "Sample.otl"
17. Select 'Yes' to confirm replace
18. Select 'Yes' to view the outline
19. In the navigation pane, locate the "Sample" database under the "BISAMPLE" application
20. Right mouse on the "Sample" database and select 'Load Data'.
21. Select 'Find Data File' from the dialog
22. Navigate to the file location of 'data.txt' (which is contained inside data.zip)

23. Select 'data.txt' and select OK
24. Select OK to load the data

4.2.2 SampleGL Cube

4.2.2.1 Building the cube

1. Select the 'Applications' node.
2. On the toolbar select File > New > Block Storage Application
3. Enter "BISAMPL2" as the Application name
4. On the toolbar select File > New > Database
5. Select "BISAMPL2" from the list of Applications
6. Enter "samplegl" as the database name and select OK
7. Select File > Open
10. Navigate to the file location of the 'sample.otl' file
11. Select the 'samplegl.otl' file and select OK.
12. Select File > Save As
13. Navigate to the 'Essbase Server' tab in the dialog
14. Double-click on the "BISAMPL2" application in the displayed list
15. Double-click on the "samplegl" database
16. Double-click on "samplegl.otl"
17. Select 'Yes' to confirm replace
18. Select 'Yes' to view the outline
19. In the navigation pane, locate the "samplegl" database under the "BISAMPL2" application
20. Right mouse on the "samplegl" database and select 'Load Data'.
21. Select 'Find Data File' from the dialog
22. Navigate to the file location of 'samplegl.txt' (which is contained inside data.zip)
23. Select 'samplegl.txt' and select OK
24. Select OK to load the data

4.2.2.2 Saving Essbase Calc scripts for SampleGL

The calculation script (Whatlf.csc) and the excel sheet (Eden Demo.xls) are required for what-if analysis on SampleGL. The calculation script needs to be deployed on your Essbase server (where SampleGL outline has been created according to step 4.3 in SampleApp deployment guide) by following the steps given below.

In the EAS console, select File > Open

Select the File System tab in the dialog and navigate to the location of Whatlf.csc

Highlight Whatlf.csc and select OK

In the EAS console, select File > Save As

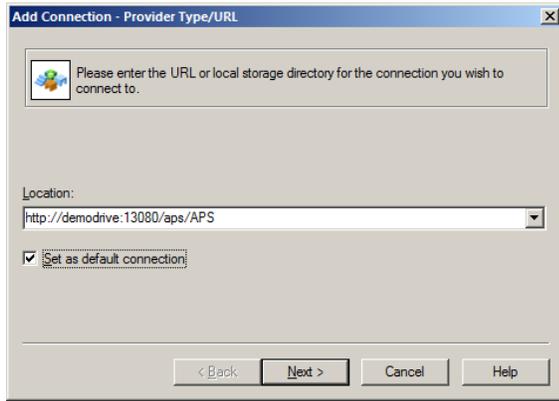
Select the Essbase Server tab in the dialog and navigate to the SampleGL cube

Specify Whatlf as the file name and select OK

4.2.2.3 Possible issue : Essbase Sample Application not available in Smartview

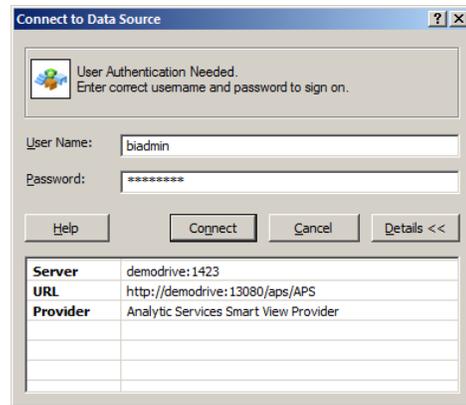
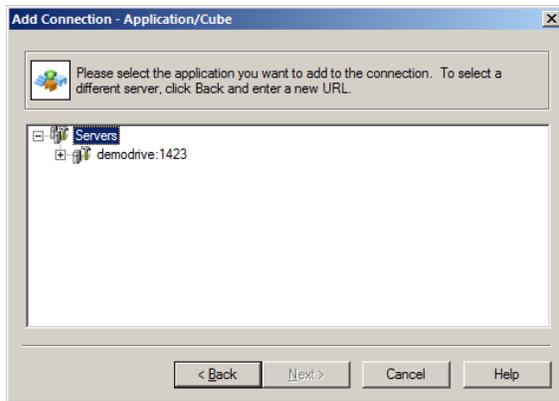
After you install the SampleApp build, it is possible that you are not able to see the applications like SampleGL within Smartview. In order to fix this, perform the following steps.

- Open Excel, select SmartView tab and click on "Open". The SmartView window will be shown on the right.

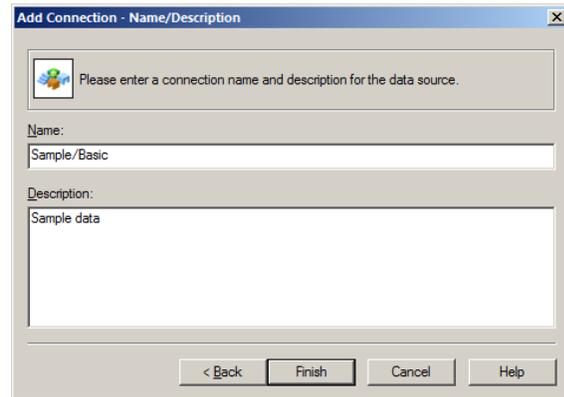
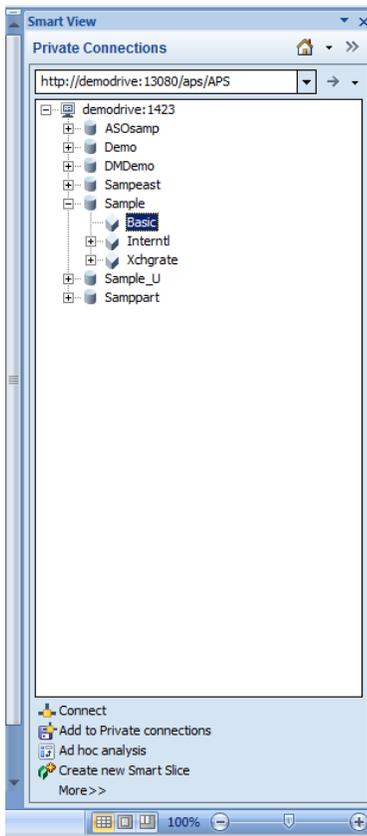


NOTE: If you get an error message here (Unable to connect to the provider) please do the following:

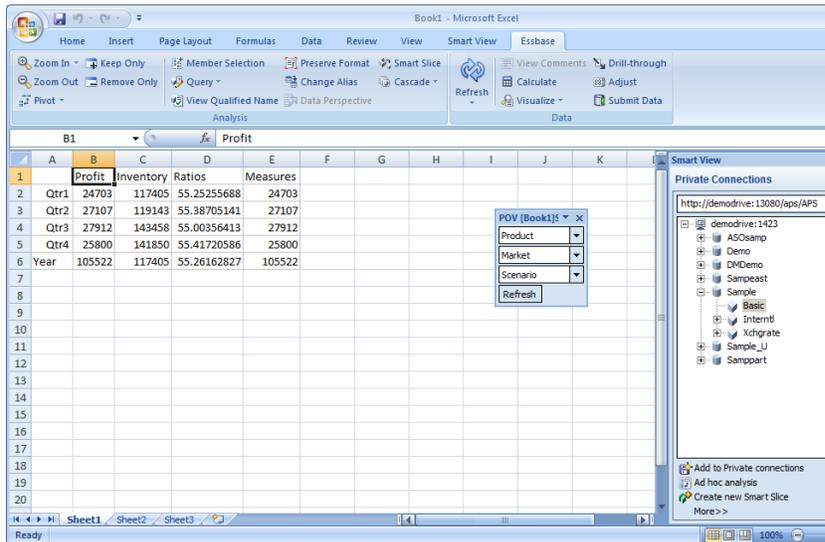
- Start Essbase Administration Services Console and logon.
- Right-click on Provider Servers and select "Edit Authenticating Essbase Server".
- Go back to Excel and click "Next" again. You now should see the following:



- Click on the + sign and authenticate with username and password to your Essbase server setup (Eg:- biadmin/welcome1).
- After a successful connection you should now be able to see all Essbase applications/databases including BISAMPLE and SampleGL. Select Sample/Basic and select Next.



- Supply a name and description and click Finish.
- Now you can select the provider service from the list of private connections.



- Select Sample / Basic and connect.
- Now select "Ad hoc analysis" to query the Essbase cube.

4.3 Creating Cube Source for Essbase BIEE integration example

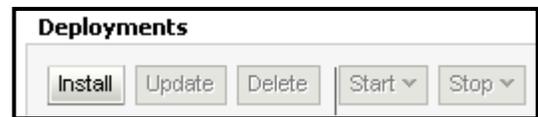
This section provides instructions for configuring OBIEE 11g so you can use Action Framework to execute an Essbase Calc Script from a Dashboard. Additionally, the package enables *direct writeback* to an Essbase cube via the OBIEE 11g front end to conduct seamless what-if analysis.

4.3.1 Deploy EssbaseCalc.war in WLS

- Login to the WLS Console
- Click on **Deployments** in the left panel



- Click Lock & Edit
- Click Install to start the Install Application Assistant



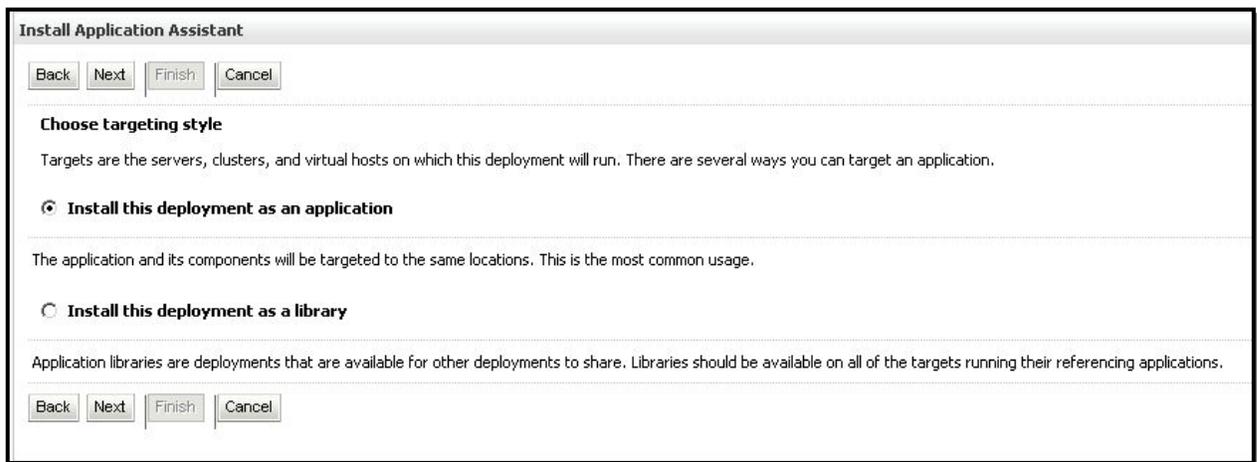
- Go to the folder

InstallHome\instances\instance1\bifoundation\OracleBIServerComponent\coreapplication_obis1\sample\SampleAppFiles\Actions

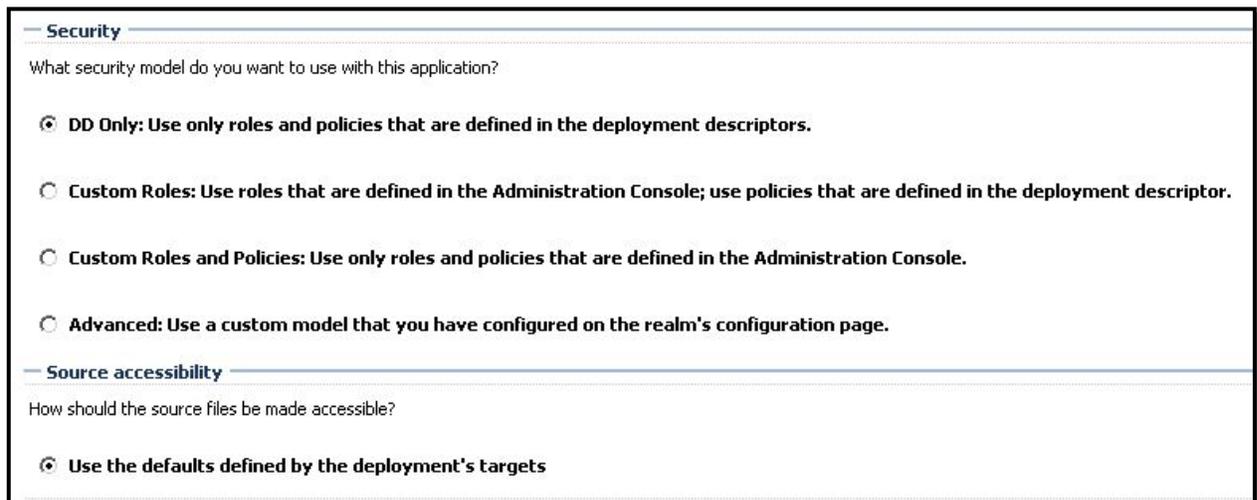
Select EssbaseCalc.war and click Next.



- Choose 'Install this deployment as an application' and click next



- Choose the following security option and click Next



- Accept the defaults. Click **Next**

Additional configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

Yes, take me to the deployment's configuration screen.

No, I will review the configuration later.

Summary

Deployment: C:\Users\demouser\Desktop\EssbaseCalc.war

Name: EssbaseCalc

Staging mode: Use the defaults defined by the chosen targets

Security Model: DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Target Summary

Components ^

EssbaseCalc

Back Next Finish Cancel

- Accept the defaults. Click **Finish**

Settings for EssbaseCalc

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the installed configuration of a Web Application.

Name: EssbaseCalc

Context Root: essbasecalc

Path: C:\Users\demouser\Desktop\EssbaseCalc.war

Deployment Plan: (no plan specified)

Staging Mode: (not specified)

Security Model: DDOnly

Deployment Order: 100

Deployment Principal Name:

Save

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

- Note the Context Root. This is the path from your bi_cluster (http://localhost:7001). You will be running a .jsp, so the full URL to test the application (see below) will be: http://localhost:7001/essbasecalc/calc.jsp
- Click on Activate Changes
- After a few moments, you should get a message at the top of the screen:

Home Log Out Preferences Record Help

Home > Summary of Deployments > **EssbaseCalc**

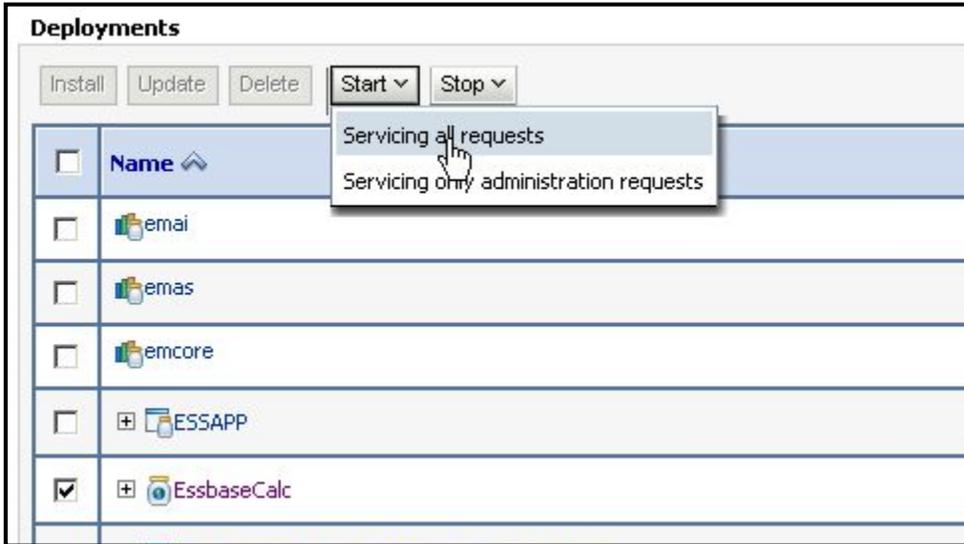
Messages

All changes have been activated. No restarts are necessary.

- Next, click on Deployments in the left panel



- In the list of Deployed Applications, click **Next** until you find **essbasecalc**. Note that in the **State** column it says **Prepared**. Click the box next to it, click the **Start** button and select **Servicing all requests**



- Click **Yes**
- Test the EssbaseCalc.war file from a Browser. Open a new browser window and enter the following URL:

<http://localhost:7001/essbasecalc/calc.jsp>. You should see a screen similar to the following:

```

Thu Dec 02 10:47:57 EST 2010
Created with JDeveloper 11.1.1.3.0
All options (listed below) are optional
Questions or comments: Phil D'Amico, Oracle phil.damico@oracle.com

Running default calc script

Success!

User demoadmin
Password *****
Host localhost
Provider http://localhost:13080/aps/JAPI
Application Sample
Cube Basic
Calc Script the default!

You can add any of the following parameters to the URL to customize it:

calc.jsp
?user= [user]
&pw= [password]
&server= [servername]
&provider= [providerURL]
&app= [application]
&cube= [cube]
&calc= [calcscrip]

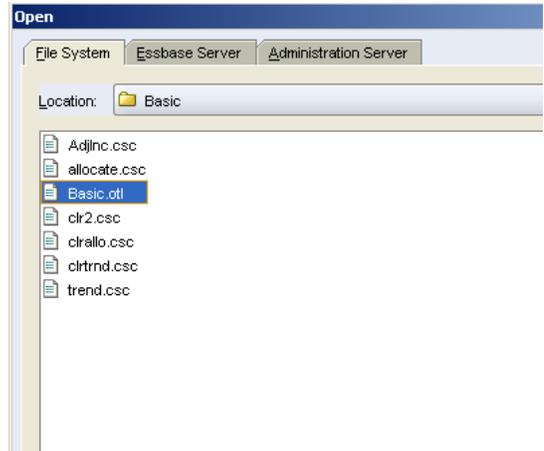
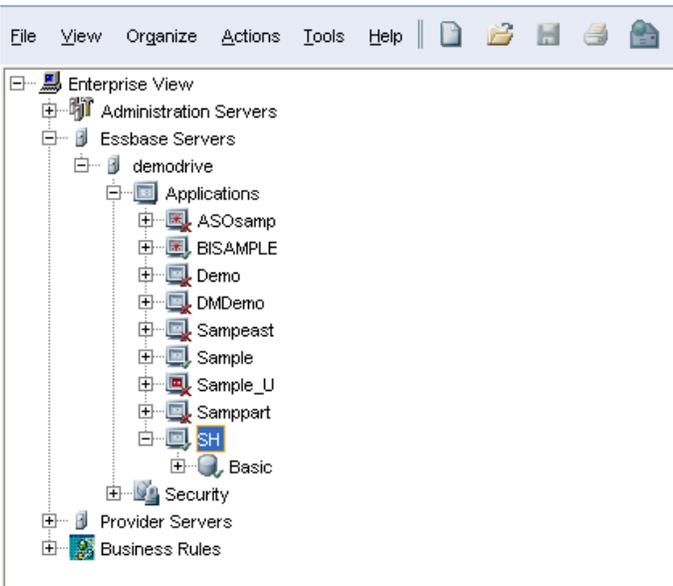
For example, to run a custom calc script on Sample.Basic, just add ?calc=[calcScriptName] to the URL above

```

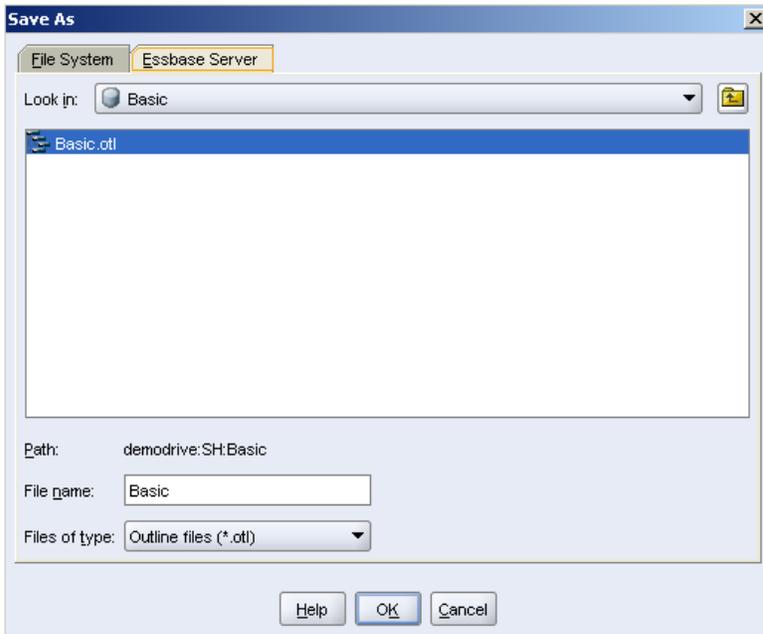
4.3.2 Deploy Essbase Source Cube

- Log into Essbase Administration Services. Open the BISAMPL2 application or, if it does not exist create a new Block Storage application called BISAMPL2. Once complete, create a database under it called Basic.

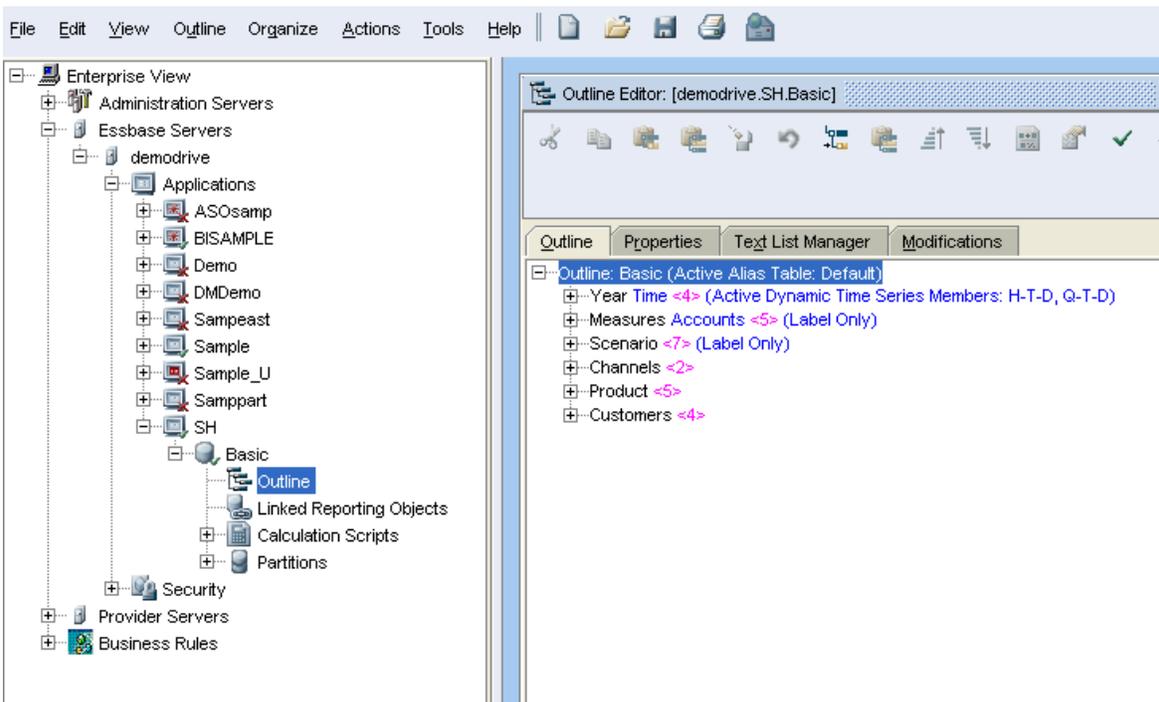
ORACLE Essbase Administration Services



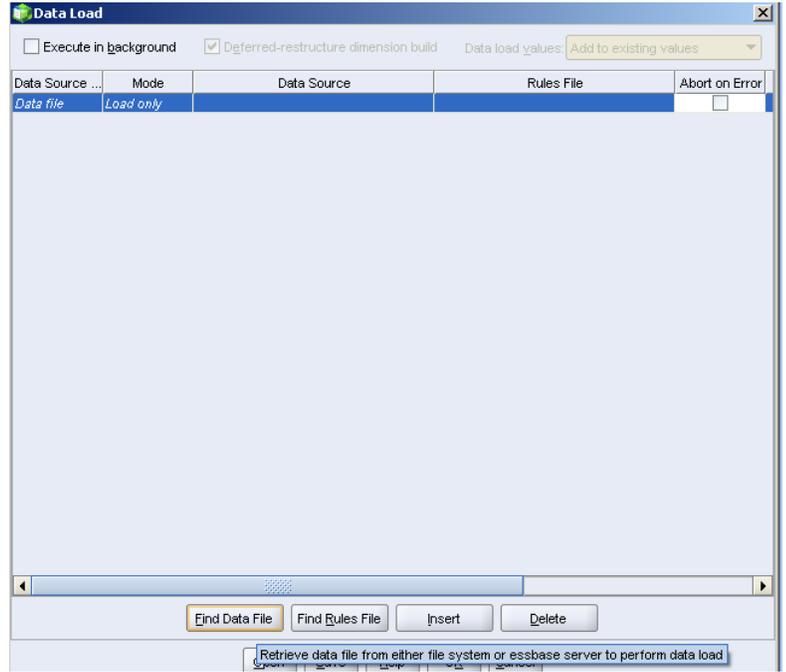
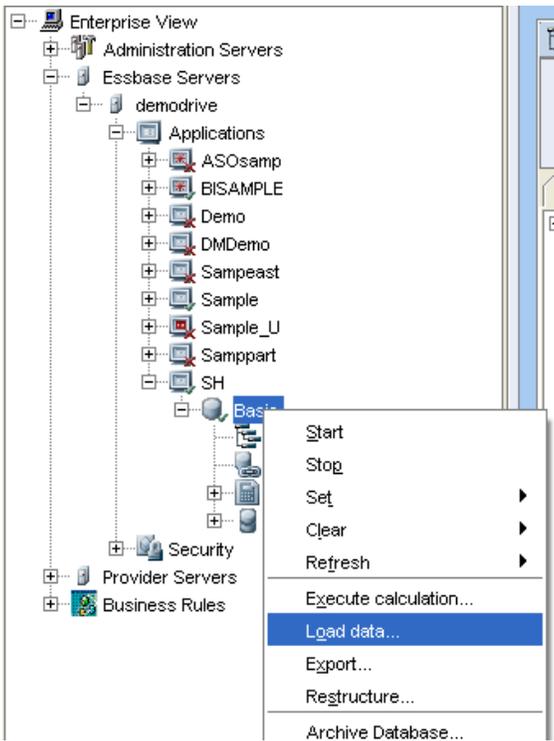
- In EAS, go to 'File'->'Open'. Select your local File System and navigate to the unzipped package directory. Open up the folder \ BISAMPL2\Basic and select Basic.otl.
- Once you have the outline open, again go to 'File'->'Save As'. You are going to overwrite the default outline with the one provided in the package. Make sure to select 'Essbase Server' and 'Basic'. 'Basic.otl'.



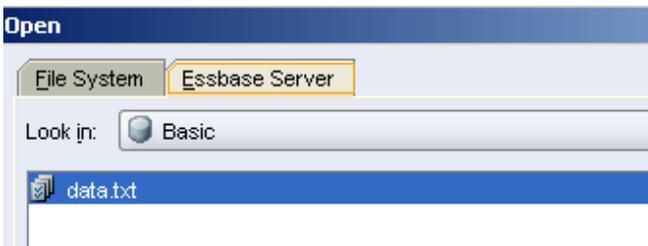
- Open up your outline from the EAS panel to verify that is saved correctly. You should see this



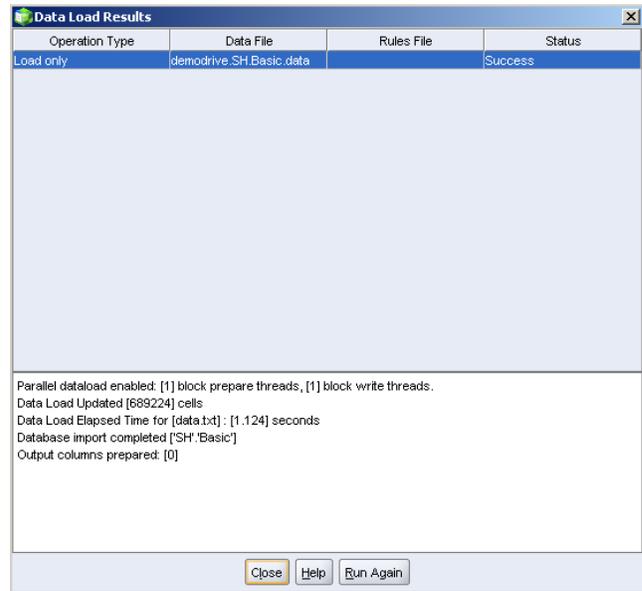
- Copy the calc scripts (.csc) and data.txt of the unzipped package folder (\BISAMPL2\Basic) to the following folder on your install \InstallHome\user_projects\epmsystem1\EssbaseServer\essbaseserver1\app\BISAMPL2\Basic. DO NOT copy the .otl, you have already done this via the 'save as' process above.
- Right click on the 'Basic' db in EAS. Select Load data.



- At the first prompt, select 'Find data file'
- Select 'data.txt' from your essbase server BISAMPL2.Basic directory.



- Run the data load. You should see a success message like below. This is a full data load, so no need to run a 'calc all' after.



4.4 Configuration Settings

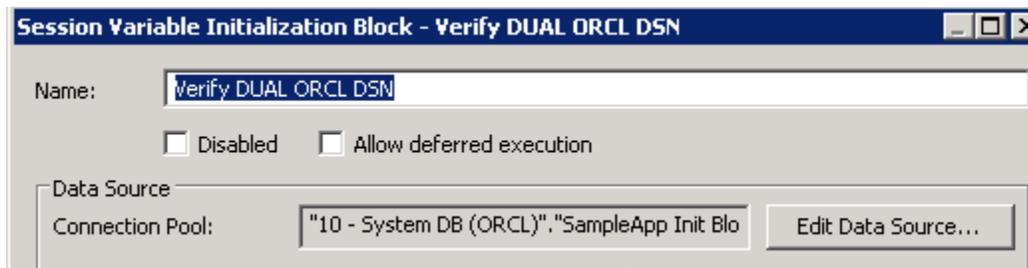
4.4.1 RPD settings:

4.4.1.1 Updating RPD variables

Following session variables and init blocks are used by Essbase Option for connection pools setting. You must update the initiation of these variables to allow the RPD to properly connect. On the RPD click on Manage->Variables and update the following session variable and init block to appropriate values to connect to your databases :

- Verify DUAL Cube Name (=BISAMPLE) - This variable holds the name of the Sample Essbase cube
- Verify DUAL ESSB HOST - This variable holds the name or IP of Essbase host server
-
- To edit the value of the variable init block,

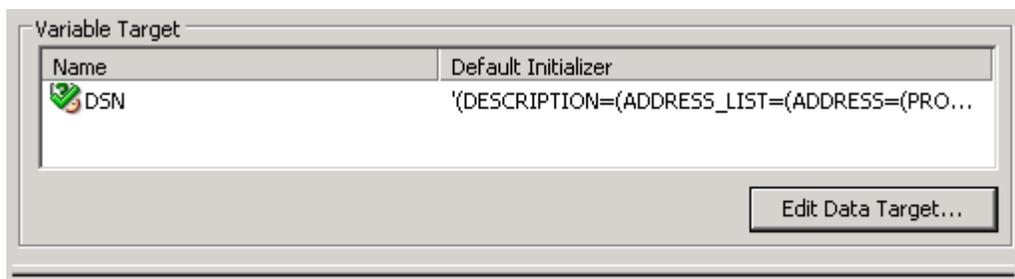
4.4.1.1.1 first click on "Edit Data Source" button



4.4.1.1.2 Then edit the SELECT statement so that it returns the correct string when it executes :

- Click the Test button to confirm correct value is returned before clicking OK.

4.4.1.1.3 Then, click the "Edit Data Target" Button



Edit the Default Initializer field with the full hardcoded string with all correct values. This default initializer will be used by OBIEE server if previous SQL statement fails.

4.4.1.2 Updating Passwords in connection Pools

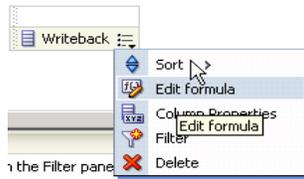
On the RPD, in the physical layer, edit **each** Essbase source connection pool and update the username and password to appropriate values to connect to your Essbase server.

4.4.2 Catalog Edits

Following reports need to be updated in the catalog to point to your Essbase server location with the appropriate username and password.

/Shared Folders/8. Source Specific Features/8.2 Essbase/Writeback/

Edit Expense Driver report. Go to the Criteria tab. Edit the formula for the Writeback column



Update the server address of your OBIEE environment, the essbase username and password in the following sections

action="http://localhost:7001/essbasecalc/writeback.jsp (replace localhost with your ip address where OBIEE is deployed)

value="password" (replace with your essbase server password)

value=http://localhost:7001/analytics/saw.dll?Dashboard&PortalPath=%2Fshared%2F8.%20Source%20Specific%20Features%2F_portal%2F8.2%20Oracle%20Essbase&Page=Writeback (

(replace localhost with your ip address where OBIEE is deployed)

/Shared Folders/8. Source Specific Features/8.2 Essbase/Writeback/

Edit the parameters of the actions adjust, clear and trend with the essbase server password that is setup on your environment

4.4.3 Start BIEE services and login:

Start BIEE services using one of the interfaces below :

4.4.3.1 Start services using EM

- Login to the EM administration screen using the url <http://localhost:7001/em> (Replace the hostname and port number based on your setup). Use the login you created in BIEE installation to log in.
- Expand 'Business Intelligence' node on the left and choose Coreapplication.
- Click on the Overview Tab,
- Click on blue button 'Restart' (or green button 'Start') under the Manage System category, middle of screen,
- Click yes on dialog box to confirm the move. Wait for message that confirms successful restart.

4.4.3.2 Start services using OPMNCTL

Open a command prompt, navigate to `InstallHome\instances\instance1\bin` and run "opmnctl startall". When the starting completes, login to Analytics using your install login.

✓ **IMPORTANT Note :**

On your Essbase server, confirm that the Analytics Service Provider service is up. This is required for the essbase actions to work.

4.4.4 Verify install

You should be able to login into Analytics, select Essbase Sample Subject Area and run queries that return results from this subject Area.

5 SampleApp TimesTen Content (Optional)

This paragraph describes how to deploy the SampleApp TimesTen content. This deployment is optional and comes in addition to SampleApp Core deployment.

5.1 Prerequisites

TimesTen 11g server should be installed. If the TimesTen server and OBIEE are installed on two separate machines, then TimesTen 11g client should be installed on the OBIEE install machine, for making the required communication with TimesTen server

TimesTen can be downloaded from <http://www.oracle.com/technetwork/database/timesten/downloads/index.html>

5.2 Creating BISAMPLE_TT database

To create BISAMPLE_TT database on TimesTen server, the first step is create the necessary DSN. Depending on whether your TimesTen server is on windows or Linux, follow the appropriate steps given below.

5.2.1 DSN on Windows

Using the ODBC Data Source Administrator, create a new System DSN. Choose TimesTen Data Manager as the driver and create a DSN with the following properties

Data Source Name – BISAMPLE_TT

Description - BISAMPLE_TT

Database Character Set – AL32UTF8

Data Store Path + Name – Point this to a folder where you would want to install the BISAMPLE_TT datastore.

NOTE:- This folder will need approximately 80Mb of free space

Permanent Data Size – 40

Temporary Data Size - 32

Leave the remaining parameters as default.

5.2.2 DSN on Linux

Open sys.odbc.ini file in the folder TimesTen install folder /TimesTen/tt1121/info.

Add a new data source name in the section labeled [ODBC Data Sources]

BISAMPLE_TT=TimesTen 11.2.1 Driver

For this DSN entry, there is a corresponding set of database properties and attributes that need to be entered. The database attributes can be added anywhere after the [ODBC Data Sources] section.

Note. The DSN name appears inside square brackets at the top of the DSN definition on a line by itself

[BISAMPLE_TT]

Driver=/scratch/plions/timesten/TimesTen/tt1121/lib/libtten.so

DataStore=/scratch/plions/timesten/TimesTen/tt1121/ttdata/database/my_ttdb

LogDir=/scratch/plions/timesten/TimesTen/tt1121/ttdata/logs

PermSize=40

TempSize=32

DatabaseCharacterSet=AL32UTF8

Note:-

Driver attribute = Point to the appropriate TimesTen install folder on your setup.

DataStore = Point to the folder where you would want to install BISAMPLE_TT datastore. This folder will need approximately 80Mb of free space.

5.2.3 Loading BISAMPLE_TT schema

- Connect to the BISAMPLE_TT either using ttlsq or sqldeveloper.
`CONNECT BISAMPLE_TT;`
- Create BISAMPLE_TT user by issuing the following command.
`CREATE USER BISAMPLE_TT IDENTIFIED BY BISAMPLE_TT;`
`GRANT ADMIN TO BISAMPLE_TT;`
- Now disconnect and connect again using the BISAMPLE_TT user created.
`CONNECT "DSN=BISAMPLE_TT;UID=BISAMPLE_TT;PWD=BISAMPLE_TT";`
- Next, run the file BISAMPLE_TT_SCHEMA.SQL to create the tables. This file is located under the folder DataSources\TimesTen of your SampleApp install directory using the following command.
`RUN BISAMPLE_TT_SCHEMA.SQL`
- Once the tables are created, run the script BISAMPLE_TT_DATA.SQL to load the data.
`RUN BISAMPLE_TT_DATA.SQL`

5.3 ODBC Settings

On your environment, OBIEE and the TimesTen server could be on the same machine or two different machines. If they are on two different machines, then you need to install TimesTen Client on the machine where OBIEE is installed. Depending on what your configuration is and whether it's a Windows setup or Linux, follow the steps from the appropriate section below

5.3.1 Option 1 – OBIEE and TimesTen server on the same machine

5.3.1.1 Windows

If OBIEE and TimesTen are installed on the same Windows machine, then the DSN created in step 5.2.1 will be used in the OBIEE environment settings. No other DSN needs to be created.

5.3.1.2 Linux

If OBIEE and TimesTen are installed on the same Linux machine, edit odbc.ini file from the following location on your OBIEE install.

/InstallHome/instances/instance1/bifoundation/OracleBIApplication/coreapplication/setup

Under the [ODBC Data Sources] section, make the following entry

BISAMPLE_TT= TimesTen 11.2.1 Driver

For this DSN entry, there is a corresponding set of database properties and attributes that need to be entered. The database attributes can be added anywhere after the [ODBC Data Sources] section.

Note. The DSN name appears inside square brackets at the top of the DSN definition on a line by itself.

[BISAMPLE_TT]

Driver=/scratch/plions/timesten/TimesTen/tt1121/lib/libtten.so

DataStore=/scratch/plions/timesten/TimesTen/tt1121/ttdata/database/my_ttdb

LogDir=/scratch/plions/timesten/TimesTen/tt1121/ttdata/logs

PermSize=40

TempSize=32

DatabaseCharacterSet=AL32UTF8

Note:- Change the Driver, DataStore and LogDir paths to point to the appropriate location on your TimesTen server install location where BISAMPLE_TT schema was created.

5.3.2 Option 2 – OBIEE and TimesTen server on different machines

5.3.2.1 Windows

If TimesTen server and OBIEE are installed on different machines, then it is required that TimesTen Client is installed on the machine where OBIEE is installed. Once the Client is installed, create a DSN called BISAMPLE_TT on this client machine to connect to the TimesTen server. To create the DSN using the ODBC Data Source Administrator, choose TimesTen Client 11.2.1 as the driver and create a DSN with the following properties

Name – BISAMPLE_TT

Server Name or Network Address – Enter the name/ip of the TimesTen server machine

Server DSN – BISAMPLE_TT (This name should appear in the drop down as this is the DSN created on the TimesTen server machine)

Connection Name – BISAMPLE_TT

User ID – BISAMPLE_TT

Password – BISAMPLE_TT

Leave the other parameters as default. Click on Test Data Source Connection and Test Oracle TimesTen Server Connection and confirm that it connects to the server successfully.

5.3.2.2 Linux

If TimesTen Server is installed on a different machine, then it is required that TimesTen Client is installed on the machine where OBIEE is installed. Once the Client is installed, edit odbc.ini from the following location in your OBIEE install

/InstallHome/instances/instance1/bifoundation/OracleBIApplication/coreapplication/setup

Under the [ODBC Data Sources] section, make the following entry

BISAMPLE_TT= TimesTen Client 11.2.1

For this DSN entry, there is a corresponding set of database properties and attributes that need to be entered. The database attributes can be added anywhere after the [ODBC Data Sources] section.

Note. The DSN name appears inside square brackets at the top of the DSN definition on a line by itself.

[BISAMPLE_TT]

Driver = /scratch/plions/timesten/TimesTen/tt1121/lib/libtclient.so

TTC_SERVER = TimesTenServerName

TTC_SERVER_DSN = BISAMPLE_TT

Note:- Change the Driver location to the appropriate path on your install.

TTC_SERVER should point to the machine where TimesTen Server is installed. TTC_SERVER_DSN should be BISAMPLE_TT.

5.4 OBIEE Environment settings

The following settings need to be made within the OBIEE install location in order to enable OBI Server to communicate to the TimesTen server. (This needs to be done for both Windows and Linux install of OBIEE)

Open user.sh from the following location on your OBIEE install.

/InstallHome/instances/instance1/bifoundation/OracleBIApplication/coreapplication/setup

At the end of the file, add the following to include TimesTen folder location to the LD_LIBRARY_PATH variable.

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/scratch/plions/timesten/TimesTen/tt1121/lib
```

- Change the path to the appropriate location on your TimesTen installation.
- If both OBIEE and TimesTen server are installed on the same machine, then this path will refer to the TimesTen server install location.
- If OBIEE and TimesTen server are installed on different machines, then this path will refer to the TimesTen client install location.

Restart OBI Server for these changes to take effect. After restarting, the dashboard pages on 8.6 Oracle TimesTen should start showing results.

6 SampleApp MS SSAS Cube (Optional)

This paragraph describes how to deploy the SampleApp MS SSAS Cube. This deployment is optional and comes in addition to SampleApp Core deployment.

6.1 Prerequisites

Access to an environment with Microsoft SQL Server 2008 is required, with Analysis Service installed.

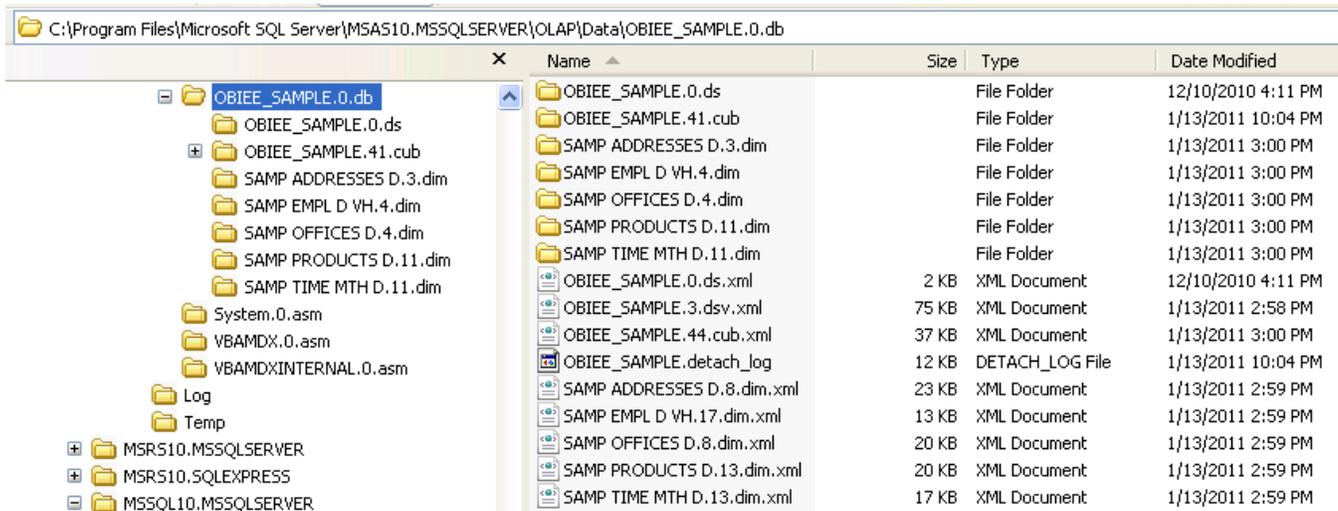
6.2 Attaching BISAMPLE SSAS cube

- Open the Microsoft SQL Server Management Studio

6.2.1 Copying database files

- In your SampleApp install content folder, navigate to subfolder 'DataSources/MS_SSAS',
- Copy the whole subfolder named OBIEE_SAMPLE.0.db on your MS SSAS server machine. This folder should be located where you have MS_SSAS saving database content. By default, Analysis Services databases reside in :

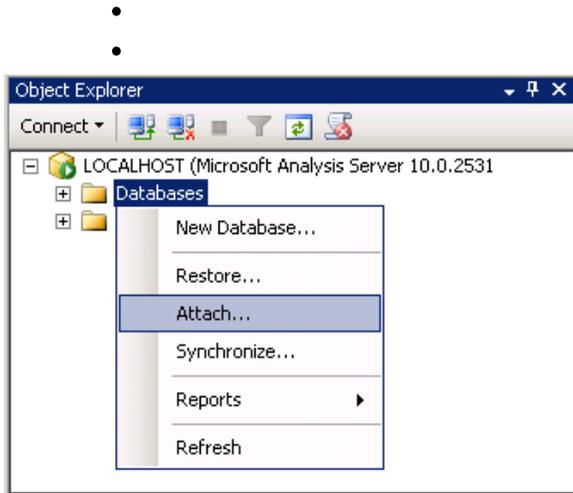
"<drive>:\Program Files\Microsoft SQL Server\<Instance Name>\OLAP\Data"



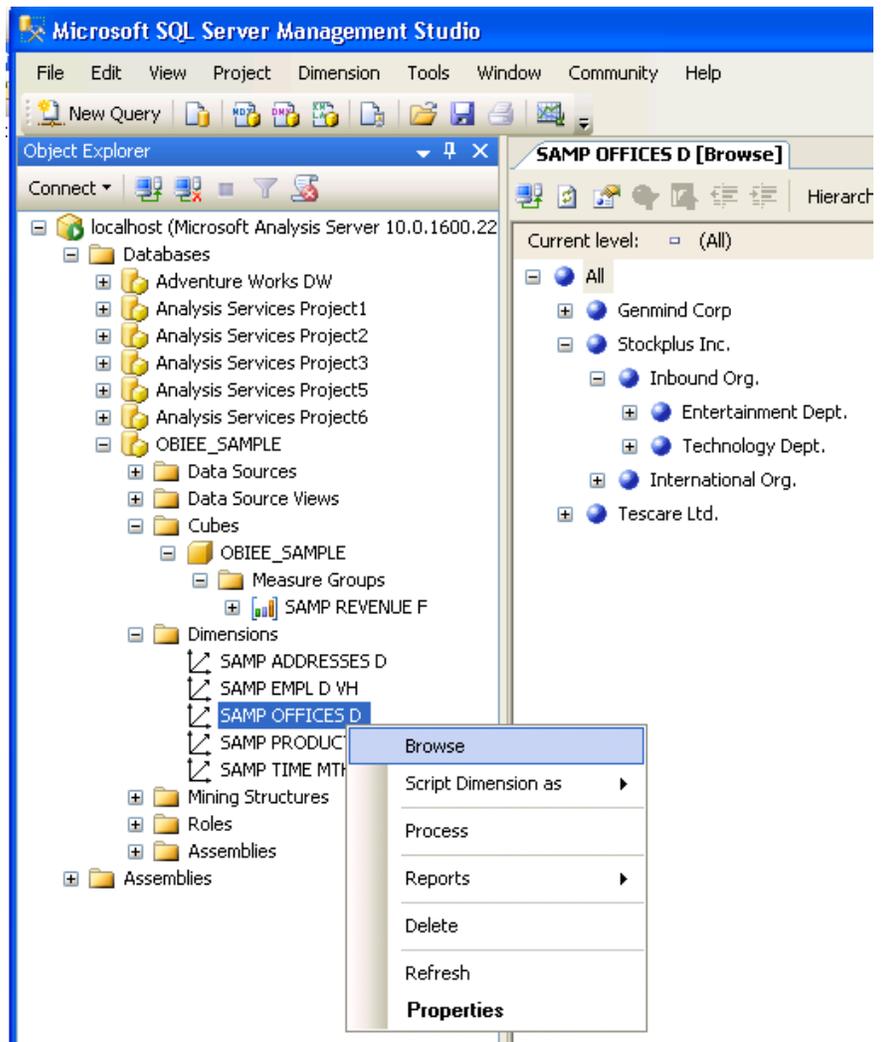
Name	Size	Type	Date Modified
OBIEE_SAMPLE.0.ds		File Folder	12/10/2010 4:11 PM
OBIEE_SAMPLE.41.cub		File Folder	1/13/2011 10:04 PM
SAMP ADDRESSES D.3.dim		File Folder	1/13/2011 3:00 PM
SAMP EMPL D VH.4.dim		File Folder	1/13/2011 3:00 PM
SAMP OFFICES D.4.dim		File Folder	1/13/2011 3:00 PM
SAMP PRODUCTS D.11.dim		File Folder	1/13/2011 3:00 PM
SAMP TIME MTH D.11.dim		File Folder	1/13/2011 3:00 PM
System.0.asm			
VBAMD.0.asm			
VBAMDINTERNAL.0.asm			
Log			
Temp			
MSRS10.MSSQLSERVER			
MSRS10.SQLEXPRESS			
MSSQL10.MSSQLSERVER			
OBIEE_SAMPLE.0.ds.xml	2 KB	XML Document	12/10/2010 4:11 PM
OBIEE_SAMPLE.3.dsv.xml	75 KB	XML Document	1/13/2011 2:58 PM
OBIEE_SAMPLE.44.cub.xml	37 KB	XML Document	1/13/2011 3:00 PM
OBIEE_SAMPLE.detach_log	12 KB	DETACH_LOG File	1/13/2011 10:04 PM
SAMP ADDRESSES D.8.dim.xml	23 KB	XML Document	1/13/2011 2:59 PM
SAMP EMPL D VH.17.dim.xml	13 KB	XML Document	1/13/2011 2:59 PM
SAMP OFFICES D.8.dim.xml	20 KB	XML Document	1/13/2011 2:59 PM
SAMP PRODUCTS D.13.dim.xml	20 KB	XML Document	1/13/2011 2:59 PM
SAMP TIME MTH D.13.dim.xml	17 KB	XML Document	1/13/2011 2:59 PM

6.2.2 Attaching the Analysis Service Database Using SQL Server Management Studio

- Connect to the Analysis Service Database Instance using SQL Server Management Studio, with a local SSAS admin login.
- In the Object Explorer, right click Databases and then select the Attach option from the pop-up menu as shown in the snippet below.



-
-
-
- In the Attach Database screen, you need to specify the folder where you saved the OBIEE_SAMPLE.0.db Analysis Services folder, and click OK to attach the database.
- When back to the Object Explorer, click Refresh on the database list.
-



6.2.3 Testing the Cube Content

You should now be able to expand the cube objects and dimensions, as per the image below, and right click on any dimension to select the browse option and see some values directly from SQL Server Management Studio.

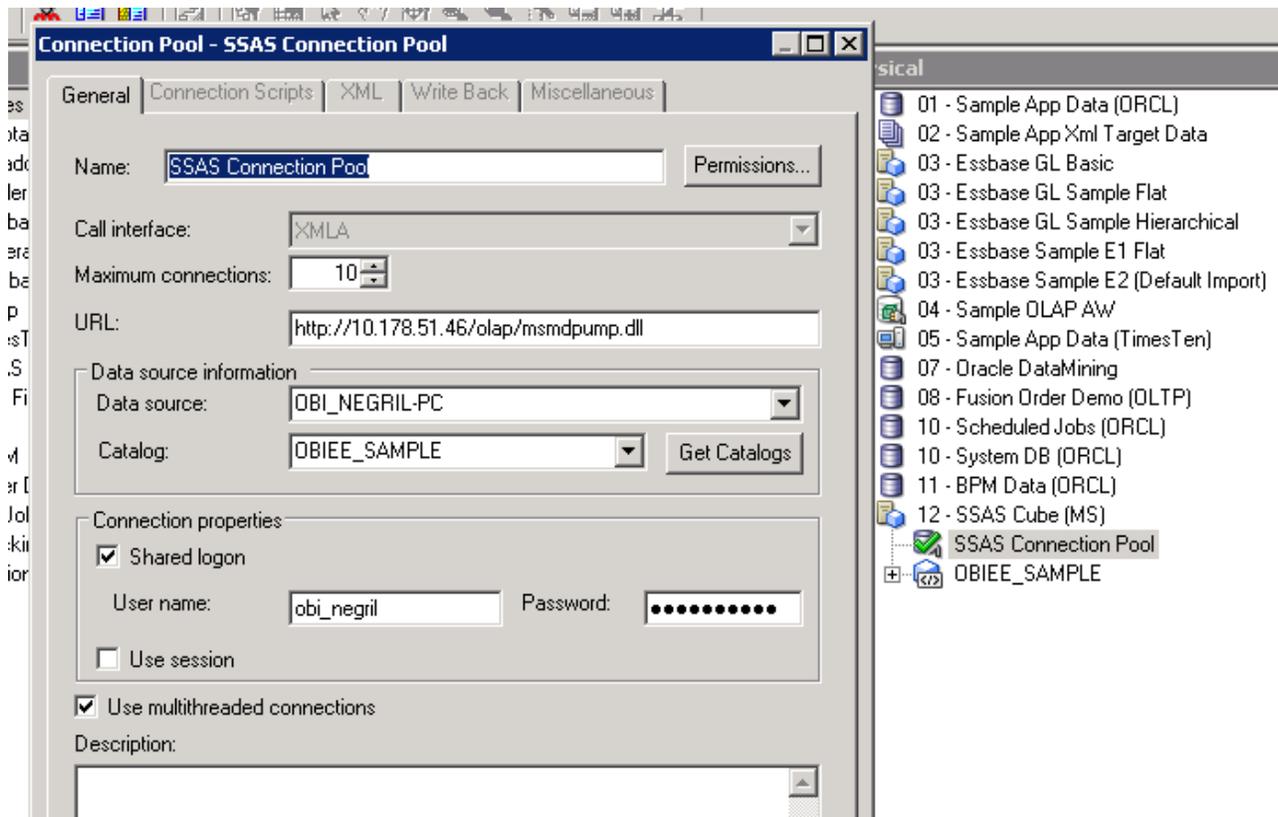
6.2.4 Backup file

If you prefer to use a restore command to create the cube on your SSAS server, a backup file of the OBIEE_SAMPLE cube is provided in the install files, the file name is : OBIEE_SAMPLE.abf

6.3 RPD Configuration Edits

6.3.1 Updating RPD SSAS Connection Pool

On the online RPD, in the physical layer, edit the SSAS source connection pool and update the following fields to allow connectivity to your SSAS server :



- URL : update with proper server name/IP in the url
- Datasource : update with the catalog existing for your connection (you can see this by clicking properties on the server line on the SQL Server Management Studio)
- Catalog : the name of the cube you just created, OBIEE_SAMPLE
- User name and password : your local SSAS account credentials.
- Check in the changes and save the RPD.

6.3.2 Testing the connection

You should now be able to query your SSAS cube by logging into OBIEE web UI and defining ad hoc queries on the SSAS related subject area.

7 SampleApp ODI (Oracle Data Integrator) Content (Optional)

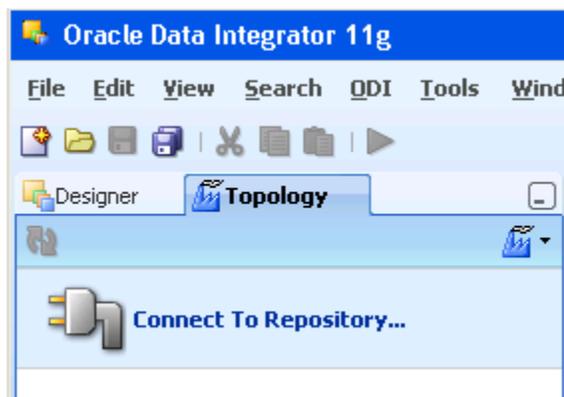
This paragraph describes how to deploy the SampleApp Oracle Data Integrator content. This deployment is optional and comes in addition to SampleApp Core deployment.

7.1 Prerequisites

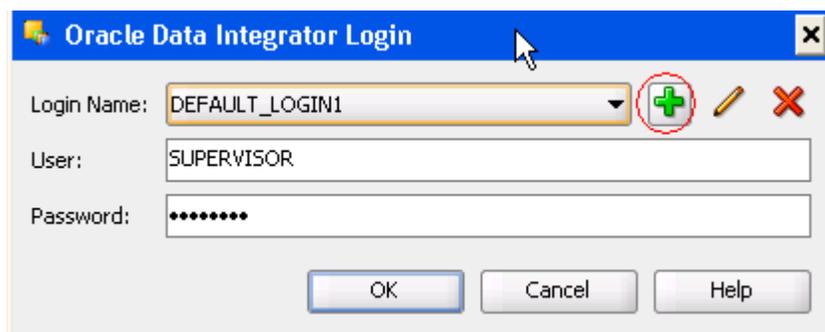
ODI 11gR1 (11.1.1.3) should be installed. This need not be on the same machine where OBIEE is installed.

7.2 Configuring ODI Repository

Copy the Data folder and its contents from Others\ODI into the machine where ODI is installed. Open ODI Studio from your Oracle Data Integrator Install. Click on Connect to Repository link



In the Oracle Data Integrator Login screen that comes up, click the '+' icon to define a new repository connection information.



Enter the following information

Oracle Data Integrator Connection

 Login Name – SAMPLEAPP_ODI

 User – SUPERVISOR

 Password – SUPERVISOR (If you have changed the default password during ODI install, provide the appropriate password here)

Database Connection (Master Repository)

User – DEV_ODI_REPO

Password – DEV_ODI_REPO (If you have changed the default password in ODI_USERS.SQL, provide the appropriate password here)

Driver List – Oracle JDBC Driver

Driver Name – oracle.jdbc.OracleDriver

Url - jdbc:oracle:thin:@<host>:<port>:<sid> (Replace the host, port and sid with the appropriate parameters to the database where you have installed ODI_USERS.)

✓ **IMPORTANT Note :**

If the url does not work in the format jdbc:oracle:thin:@<host>:<port>:<sid>, then specify it similar to this entry.

jdbc:oracle:thin:@//localhost:1521/orcl

Work Repository. Choose Master Repository Only

Click on Test to confirm that the information provided is correct and click OK.

Repository Connection Information

Oracle Data Integrator Connection

Login Name: SAMPLEAPP_ODI

User: SUPERVISOR

Password:

Database Connection (Master Repository)

User: DEV_ODI_REPO

Password:

Driver List: Oracle JDBC Driver

Driver Name: oracle.jdbc.OracleDriver

Url: jdbc:oracle:thin:@//dadvmn0062.us.oracle.com:1521/orcl

Work Repository

Master Repository Only

Work Repository

Default Connection

OK Cancel Test Help

Click on OK on the Login screen to connect to the Master repository

Oracle Data Integrator Login

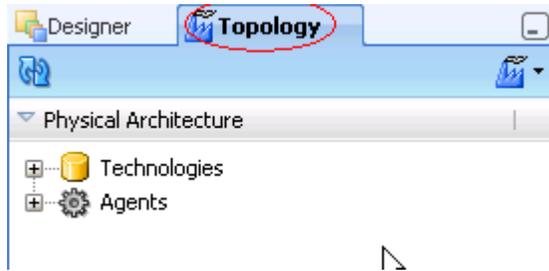
Login Name: SAMPLEAPP_ODI

User: SUPERVISOR

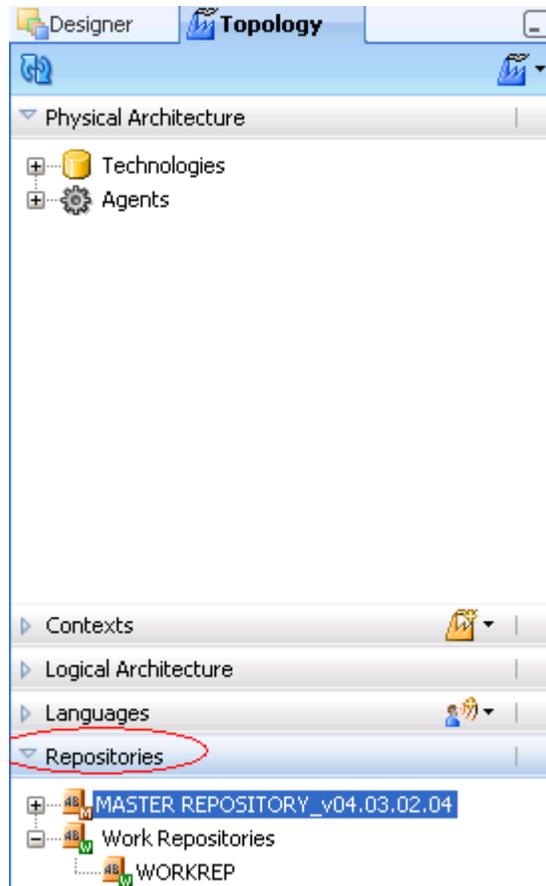
Password:

OK Cancel Help

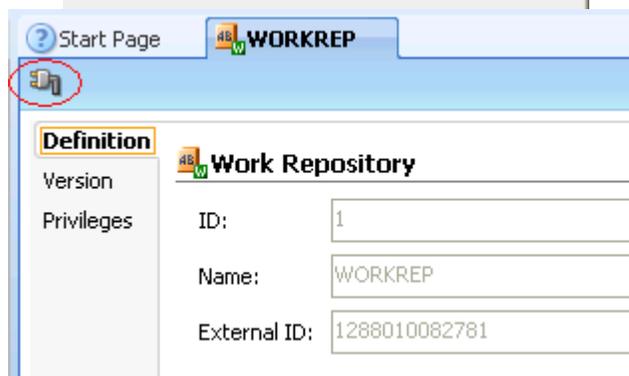
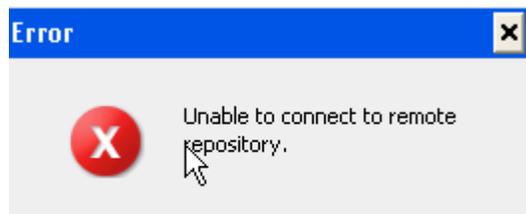
Go to Topology navigator tab.



Go to Repositories section. Expand Work Repositories and doubleclick on WORKREP.



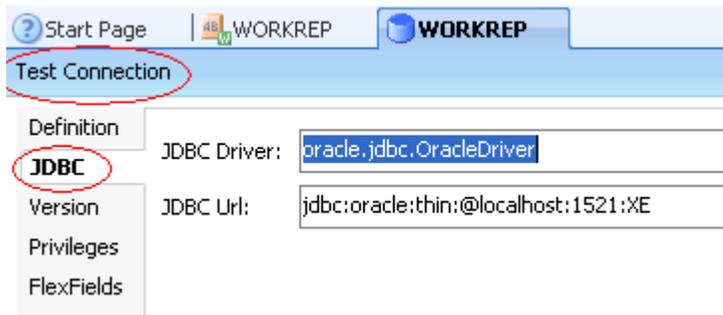
Click OK on the dialog which says 'Unable to connect to remote repository'. Proceed to configure the work repository.



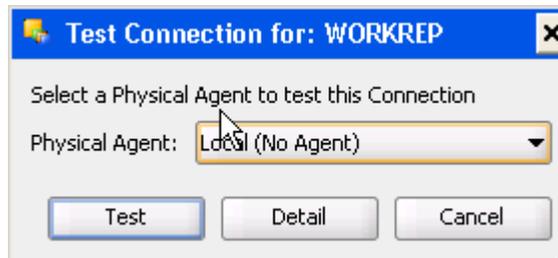
Click on the screen.

Connection icon on the top left of the

In the connection details that show up, click on JDBC. Update the JDBC url to point to the database machine where you installed the ODI users. Click on Test Connection to test the connection to the database.

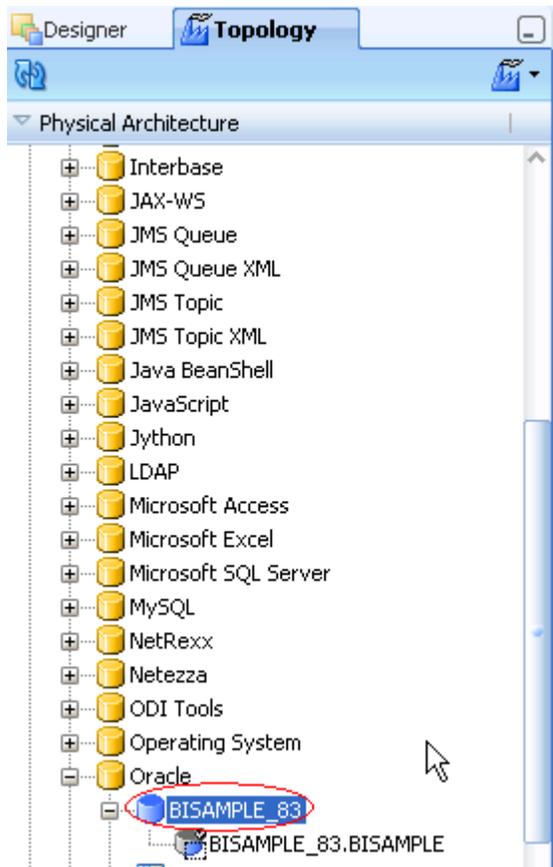


In the Test Connection dialog that appears, choose Physical agent as Local (No Agent) and click OK.

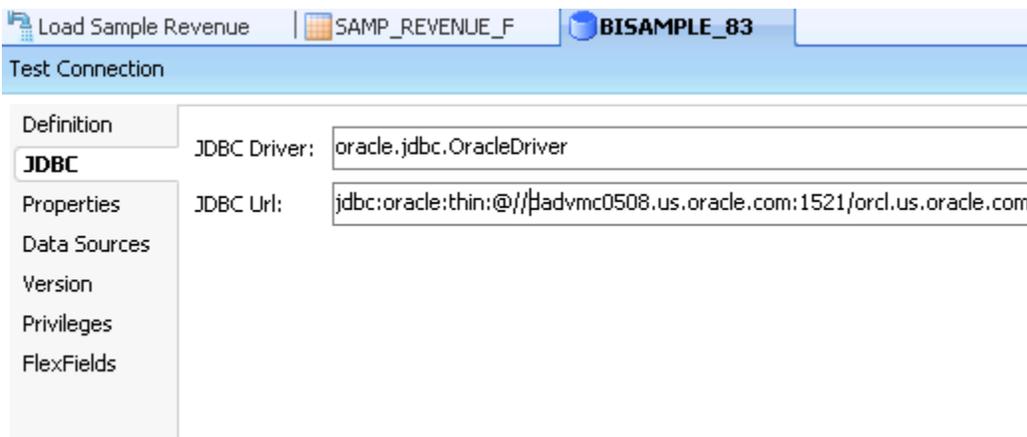


Confirm that the connection is successful.

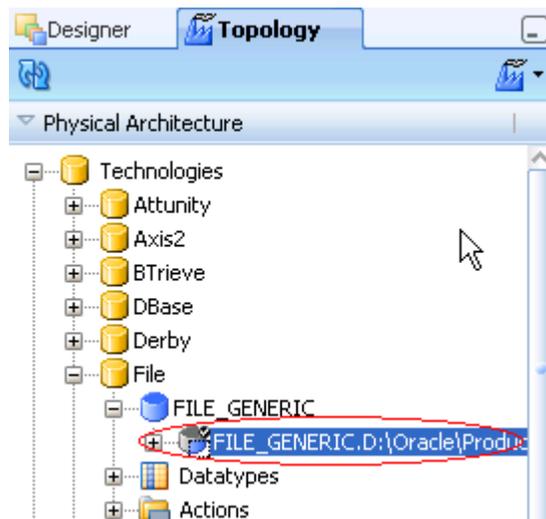
Next, to configure the SampleApp database connection information, within the same Topology navigator tab, Physical Architecture->Technologies->Oracle->BISAMPLE. Double click on this BISAMPLE data server entry.



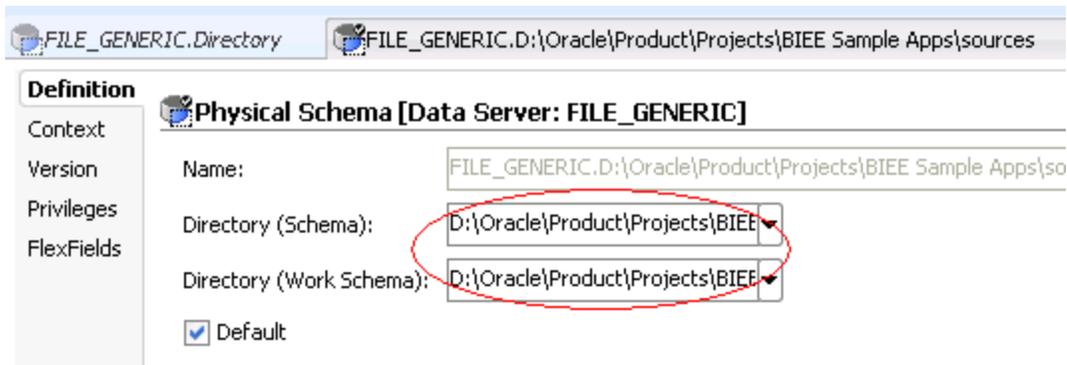
In the definition details that come up on the right, click on JDBC, update the JDBC Url value to point to the database where BISAMPLE schema is installed. Test the connection.



Next, to configure the file definition where SampleApp data files are located, go Physical Architecture->File->File Generic. Double click on the File Generic object within this.



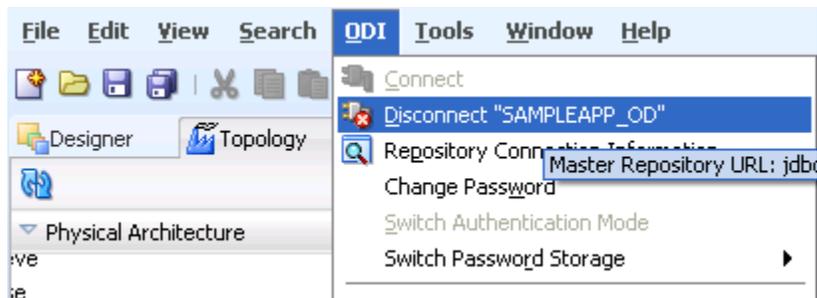
On the file definition details that come up on the right, update the Directory (Schema) and Directory (Work Schema) values to point to the Data folder where you copied the files from the SampleApp install. (Step **Error! Reference source not found.**).



Click on the Save icon.



Next, disconnect from the Master repository and connect to the work repository. To do this, choose ODI->Disconnect "SAMPLEAPP_ODI" from the menu option.

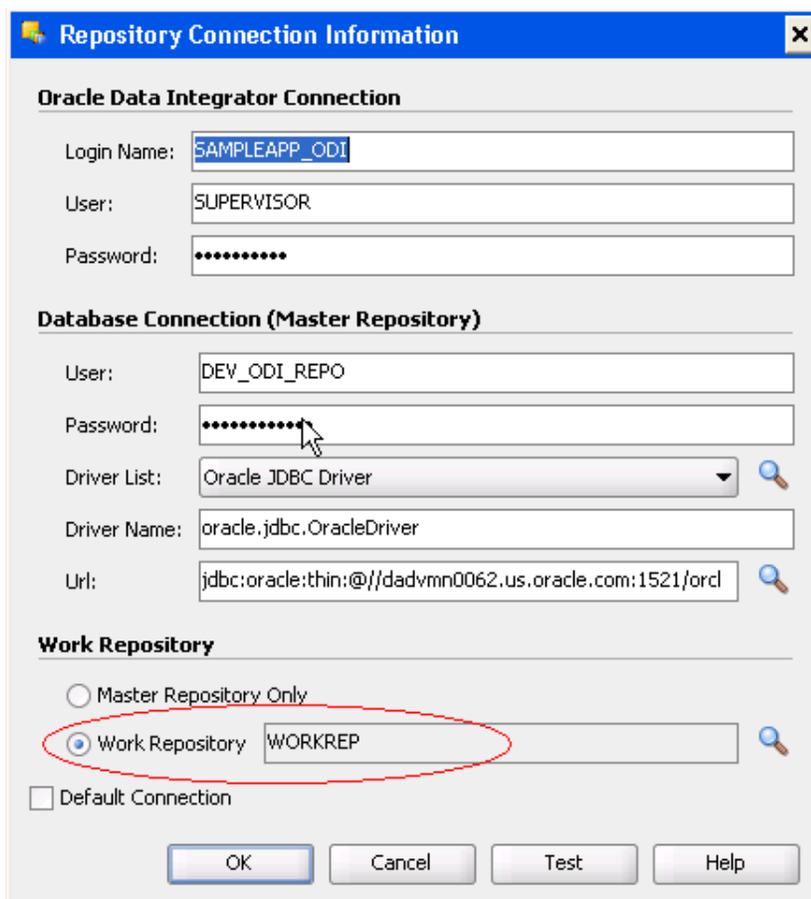


Save any pending changes.

Again, click on the ODI menu and choose SAMPLEAPP_ODI as the login name. Click on the Edit icon.



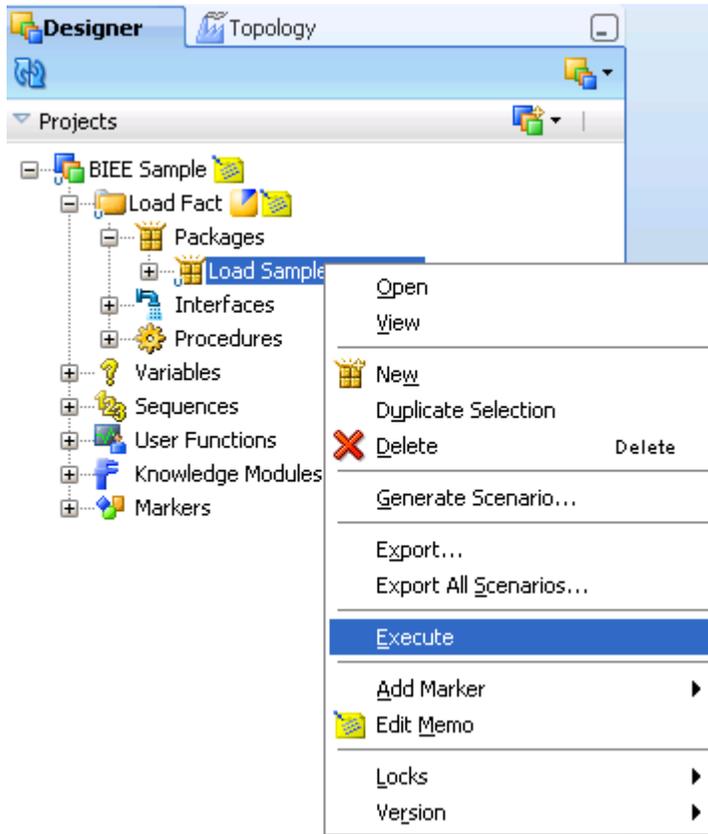
In the Repository Connection Information screen, change the Work Repository to WORKREP. Click OK and login.



7.3 Loading SAMP_REVENUE_F table

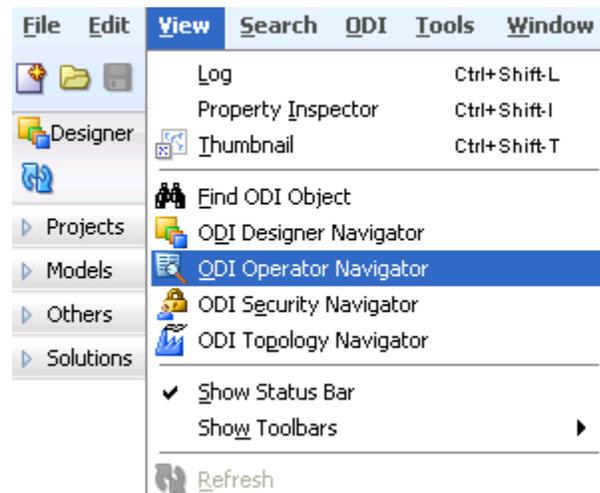
To execute the interface that will load the SAMP_REVENUE_F table from the data files that were copied in step **Error! Reference source not found.**, do the following.

In the Designer navigator, go to BIEE Sample->Load Fact->Packages->Load Sample Revenue. Right click and choose Execute.



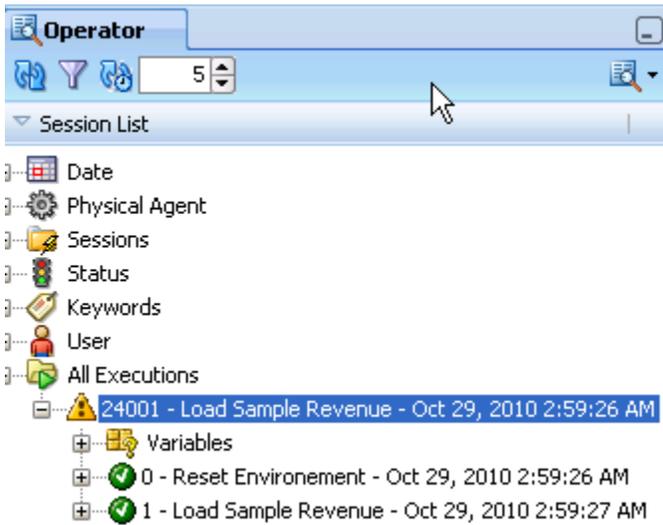
Keep the defaults in the execution dialog and click ok. It will then show a Session started dialog to indicate that the interface is being executed.

To view the execution results, on the same view, open the Operator Navigator by clicking View->ODI Operator.



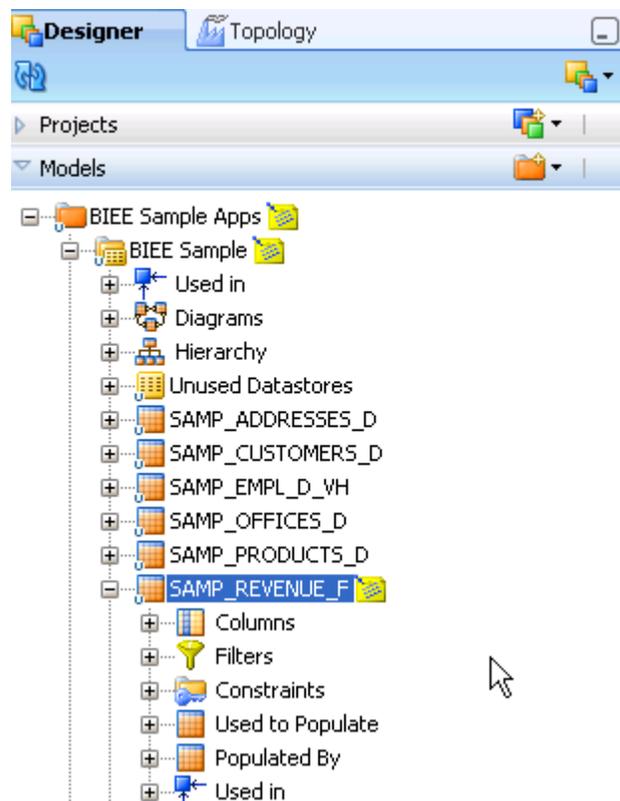
In the Operator navigator, expand the Session List->All

Executions node to see the running session and the results. Confirm that the interface ran successfully. Go to your BISAMPLE schema and verify that SAMP_REVENUE_F has 38 new records which have been inserted by this interface.



Go to BIEE Sample->Load Fact->Interfaces->Load Sample Revenue. Double click on this entry. On the interface details that show up on the right, go to the execution tab. Confirm that the interface ran successfully. Go to your BISAMPLE schema and verify that SAMP_REVENUE_F has 38 new records which have been inserted by this interface.

To view the records that were rejected by the load process, in the designer navigator, go to the Models section. Navigate to Sample Apps->BIEE Sample->SAMP_REVENUE_F object. click on this object and choose Control->Errors.



in the
BIEE
Right

View the records that were rejected and the reason for rejecting.

Data



	ODI_ROW_ID	...	ODI_ERR_MESS	ODI_CHECK_DATE	SHIPTO_ADDR_KEY	OFFICE_KEY	EMPL_KEY
1	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1844.0	3.0	15.0
2	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	811.0	3.0	15.0
3	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1834.0	10.0	8.0
4	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1803.0	16.0	6.0
5	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	835.0	19.0	21.0
6	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1674.0	20.0	20.0
7	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	969.0	12.0	8.0
8	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1867.0	15.0	5.0
9	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1937.0	10.0	20.0
10	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	965.0	5.0	14.0
11	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1917.0	16.0	20.0
12	oracle.sql.RO...	F	Join error (FK_REVENUE_ADDRESSES) between the table SAMP_RJ-10-26 04:10:57.0	10-26 04:10:57.0	1955.0	9.0	10.0

8 Additional Optional Configurations

Deploying SampleApp custom style

8.1 Deploying Custom Skin

8.1.1 Prerequisites

This step requires that Core content be properly installed, and particularly, that Weblogic Custom Service deployment (step 2.3) is properly completed. After exposing *analyticsRes* to WLS successfully, this directory can be used for custom skins. Follow the steps below for deploying SampleApp custom skin.

8.1.2 Copying file in appropriate locations

Copy all the content from folder 'Others\Custom_Style\analyticsRes' into the following location in your BIEE install:

InstallHome\instances\instance1\bifoundation\OracleBIPresentationServicesComponent\coreapplication_obips1\analyticsRes

✓ **IMPORTANT Note :**

If some subfolders should already exist within analyticsRes folder on your system, increment their content with the files from this SampleApp deployment.

8.1.3 Deploying the Custom Skin and Custom Style

8.1.3.1 Custom Skin

- Change the skin name in *instanceconfig.xml*

```
<UI><DefaultSkin>Eden</DefaultSkin></UI>
```

NOTE: For user specific skin, use NQ_SESSION.SKIN session variable

- Restart the Oracle BI Presentation Services and clear the browser cache to see the changes.

8.1.3.2 Few examples for extra skin customization

- Change the logo: Replace the *analyticsRes/sk_Eden/b_mozilla_4/oracle_logo.png* and *analyticsRes/sk_Eden/login/oracle_logo.png* with the new png file. Try to keep the size of the new png file close to the original file (119X25 px).
- Change the banner color: Modify HeaderContainer class in *analyticsRes/sk_Eden/b_mozilla_4/common.css*

```
.HeaderContainer {..; background-color: #006600; ..}
```

- Change the Tabs color (for dashboard page) in a dashboard: Modify the tab images (*.gif) in *analyticsRes/sk_Eden/b_mozilla_4/uicomponents/obips.TabBar*

NOTE: If the uicomponents directory does not exist in *analyticsRes/sk_Eden/b_mozilla_4* then create the uicomponents directory and copy the *obips.TabBar* from *ORACLE_HOME/bifoundation/web/app/res/b_mozilla/uicomponent/obips.TabBar*. Delete *.js and *.xml files.

- Change the body color of the home page: Modify the background color of the body in *analyticsRes/sk_Eden/b_mozilla_4/home.css*

```
body{..; background-color: #006600; ..}
```

- Change the alert color: Modify the HeaderAlerts class in *analyticsRes/sk_Eden/b_mozilla_4/common.css*

```
.HeaderAlerts a:hover{..; color:#FF7777; ..}
```

- Change the header bar separator line: Modify the HeaderBarSeparator class in analyticsRes/sk_Eden/b_mozilla_4/common.css

.HeaderBarSeparator{.; border-top: 1px solid #005500; ..}

- Change the background color of the dashboard name: Replace the analyticsRes/sk_Eden/b_mozilla_4/11_seltab_bg.gif with the new image. Make sure the size of the new image is the same as the old one.
- Change the header spacer line: Replace the analyticsRes/sk_Eden/common/header_spacer_bg.gif with the new image. Make sure the size of the new image is the same as the old one.
- Change the background color of the dashboard page edit and help icon: Replace the analyticsRes/sk_Eden/b_mozilla_4/12_spacer_bg.gif with the new image. Make sure the size of the new image is the same as the old one.

NOTE: The path of this image is hard coded in DashUpperContainer class in portalcontent.css file of the chosen style. This is a bug and is being fixed. For now, change this class to reflect the Eden skin (sk_eden).

- Change the status icon next to Sign Out (top right corner): Replace the analyticsRes/sk_Eden/common/page_lev_connected.gif with the new image. Make sure the size of the new image is the same as the old one.
- Change the menu bar separator line: Replace the menubar_gSeparator.gif in analyticsRes/sk_Eden/b_mozilla_4/uicomponents/obips.UberBar

NOTE: If the uicomponents directory does not exist in analyticsRes/sk_Eden/b_mozilla_4, create the uicomponents directory and copy the obips.UberBar from ORACLE_HOME/bifoundation/web/app/res/b_mozilla/uicomponent/obips.UberBar.

- Change the color, font and left margin of the brand name text (next to the logo): Modify the HeaderBrandName class in analyticsRes/sk_Eden/b_mozilla_4/common.css and appname class in analyticsRes/sk_Eden/login/login.css

.HeaderBrandName{.; color:#007700;font-family:Arial; left:120px; ..}

.appname{.; color:#007700; font-family:Arial; ..}

8.1.3.3 Deploying Custom Style

The same analyticsRes directory can be used for a custom style. Files have already been copied into the analyticsRes directory during step 8.1.2, to change the style, just edit Dashboard Properties and pick Eden Style.

NOTE: For user specific style, use NQ_SESSION.STYLE session variable

You may need to restart the Oracle BI Presentation Services and clear the browser cache to see the changes.

As an example of extra style customization : Change the background color of the pivot table header: Replace the analyticsRes/s_Eden/viewui/pivot/ptgrd_overly.png with the new image. Make sure the size of the new image is the same as the old one.

8.1.3.4 Deploying Custom Message

Custom messages are also be stored in the same analyticsRes directory. Files have already been copied into the analyticsRes directory during step 8.1.2.

As an example: Change the brand name text –

Create the message directory for the required language (English language here).

Create *CompanyName.xml* and add the text within *kmsgHeaderBIBrandName* tag:

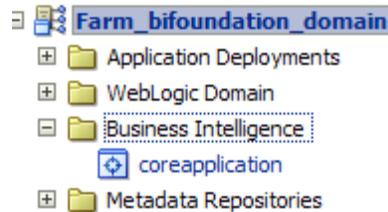
```
<WebMessageTables xmlns:sawm="com.siebel.analytics.web/message/v1"><WebMessageTable protect="true" export="true"
translate="false" system="ProductMessages" table="ProductNames">
<WebMessage name="kmsgHeaderBIBrandName"><TEXT> Report Center </TEXT></WebMessage>
</WebMessageTable></WebMessageTables>
```

8.2 Reverting to SampleAppLite

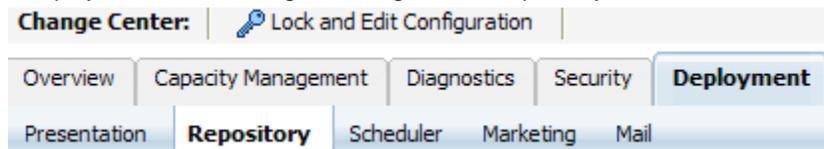
If you wish to revert to the SampleAppLite demo, which is the default out of the box demo installed with OBI11g, then perform the following steps.

8.2.1 RPD Selection

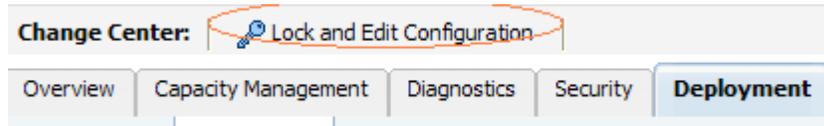
- Use the login you created in BIEE installation to log in to the EM console.
- Expand 'Business Intelligence' node on the left and choose Coreapplication.



- Now click on the Deployment tab on the right. Next, go to the Repository tab.



- Click on 'Lock and Edit Configuration' to enable you to change the default settings.



- In the 'Upload BI Server Repository' section, click on the Browse button and locate the SampleAppLite.rpd that is present with your install folder under the following path.

InstallHome\instances\instance1\bifoundation\OracleBIServerComponent\coreapplication_obips1\repository

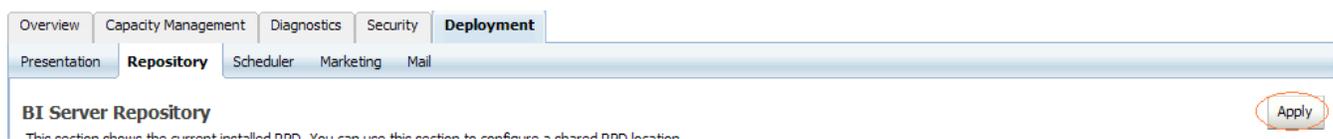
- If you are accessing EM from a different client machine, then copy over the SampleAppLite.rpd to the client machine.
- Enter Admin123 as the repository password.
- Keep on the same configuration screen to update webcat selection

8.2.2 Webcat Selection

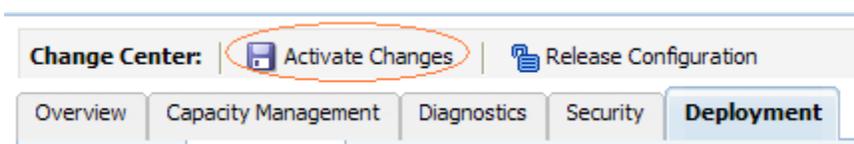
Update the catalog location path at the bottom of the same EM screen, with the location looking like this.

\$ORACLE_INSTANCE/bifoundation/OracleBIPresentationServicesComponent/\$COMPONENT_NAME/catalog/SampleAppLite

-
- Click on Apply (top right corner of screen)



- Click on 'Activate Changes'



Restart all the OBI components using EM or OPMNCTL.

Login to analytics at <http://localhost:7001/analytics> and SampleAppLite should be up now.

8.3 Custom Authenticator Plug-In

Custom Authenticator Plug-in samples can be found under Others\Custom Authenticator Plug-In.

This functionality is described in the 11.1.1.3 BI documentation - Security Guide - Appendix A - Alternative Security Administration Options - Section A.1.5 - Authentication by Using a Custom Authenticator Plug-In.

8.4 Enabling BI Publisher Usage Tracking

This section describes how to enable usage tracking on BI Publisher reports.

8.4.1 Pre-requisites

In order to save the usage tracking details within a database, the Audit schema needs to be created using the RCU. To do this, invoke the RCU, choose Audit Services under AS Common Schemas.

A Prefix groups the components associated with one deployment.

Select an existing Prefix

Create a new Prefix

Prefix can contain only alpha-numeric characters. Prefix should not start with a number and should not contain any special characters.

Component	Schema Owner
<input type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input type="checkbox"/> Metadata Services	MDS
<input checked="" type="checkbox"/> Audit Services	DEV_IAU
<input type="checkbox"/> Enterprise Scheduler Service	ESS
<input type="checkbox"/> Oracle Platform Security Services	OPSS
<input type="checkbox"/> Identity Management	

8.4.2 Enabling auditing feature

Edit the file xmlp-server-config.xml from the path

\InstallHome\user_projects\domains\bifoundation_domain\config\bipublisher\repository\Admin\Configuration

Set the following properties to true

AUDIT_ENABLED

MONITORING_ENABLED

AUDIT_JPS_INTEGRATION

By default, AUDIT_JPS_INTEGRATION will not be in the file. If it does not exist, add the entry and set the value to true. After the edits, the above mentioned properties will look like this

```

<property name="AUDIT_ENABLED" value="true"/>
<property name="MONITORING_ENABLED" value="true"/>
<property name="AUDIT_JPS_INTEGRATION" value="true"/>

```

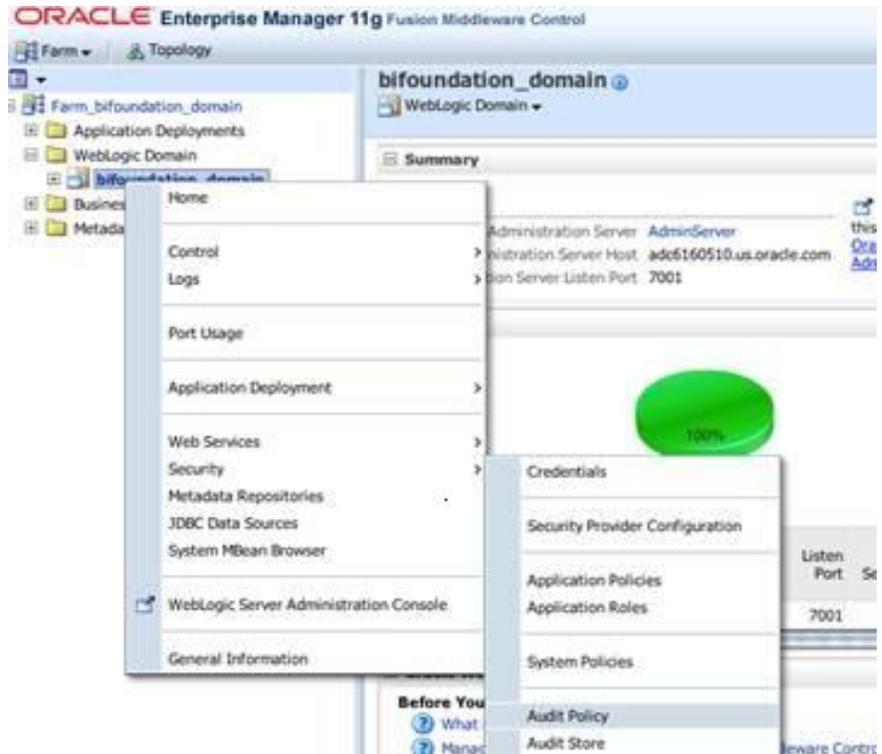
Go to the folder \InstallHome\oracle_common\modules\oracle.iau_11.1.1\components\

Here, create a directory called xmlpserver. Copy the file component_events.xml from the location

\InstallHome\user_projects\domains\bifoundation_domain\config\bipublisher\repository\Admin\Audit to the newly created xmlpserver directory.

Next step is to enable auditing policy within the EM. To do this, open EM from the url <http://localhost:7001/em> (replace the hostname and port number based on your setup).

Under Weblogic domain, right click on bifoundation_domain and select Security and then click Audit Policy



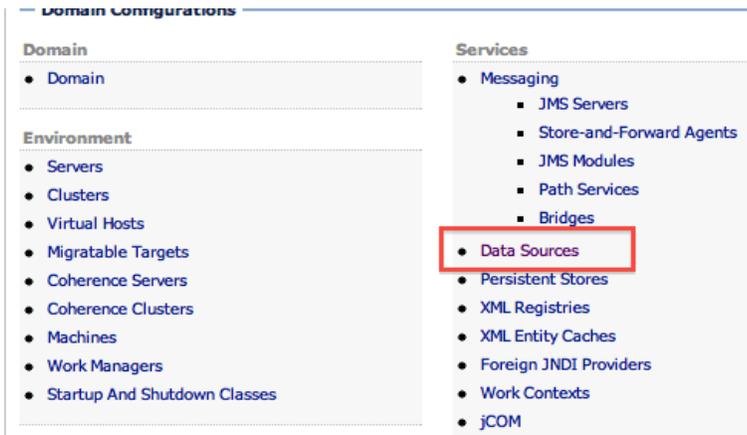
Audit Policy ?

Use this page to view and set the audit policies for the Java EE applications deployed on this domain. To set the policies for System Components, refer to the component's home page.

Set the auditing level of BI Publisher Server to Medium.

Name	Enable Audit	Filter
Oracle Web Services	<input checked="" type="checkbox"/>	
Oracle Adaptive Access Manager	<input checked="" type="checkbox"/>	
Reports Server	<input checked="" type="checkbox"/>	
Oracle Web Services Manager - Policy Attachment	<input checked="" type="checkbox"/>	
BI Publisher Server	<input checked="" type="checkbox"/>	
User Sessions	<input checked="" type="checkbox"/>	
Report Access	<input checked="" type="checkbox"/>	
Report Execution	<input checked="" type="checkbox"/>	
Oracle Platform Security Services	<input checked="" type="checkbox"/>	
Oracle Web Services Manager - Policy Manager	<input checked="" type="checkbox"/>	
Directory Integration Platform Server	<input checked="" type="checkbox"/>	
Oracle Web Services Manager - Agent	<input checked="" type="checkbox"/>	

Next step is to feed the auditing data into a table in the auditing schema by setting up a weblogic datasource. To do this, open the WLS console in the url <http://localhost:7001/console> (replace hostname and port number based on your setup). Under Services, click the Data Sources Link



Click on 'Lock&Edit' to make changes. Click New → 'Generic Datasource' to create a new data source.

Enter the following details for the new data source:

Name: Enter the name as Audit Data Source-0.

JNDI Name: jdbc/AuditDB

Database Type: Oracle



Click Next and select "Oracle's Driver (Thin XA) for instance connections; Versions: 9.01 and Later". Click Next and go to the Connection properties screen.

Enter the database information where the auditing schema was created according to section 3.6.1

Database Name - Enter the database SID where the auditing schema was created

HostName – Hostname of the database

Port – Database port

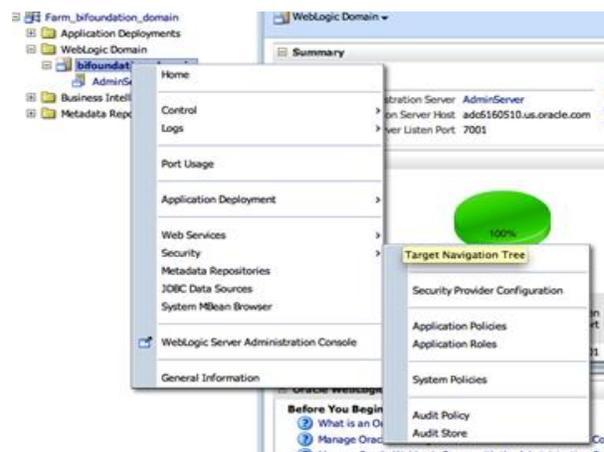
Database User Name - DEV_IAU (Provide the appropriate username that you specified in step 3.6.1)

Password – password (Provide the appropriate password)

Click Next. Accept the defaults and click Test Configuration to verify the connection.

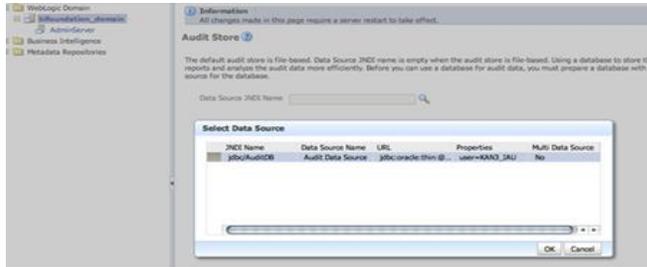
Click Next. Click on AdminServer and click Finish. Click on Activate Changes so the new JDBC connection can take effect. Restart WLS.

Next step is to register the Audit Data Storing database to the domain. To do this, login to EM console



navigate to Weblogic Domain, right click on bifoundation domain, select Security, then Audit Store.

Click the searchlight icon next to the Datasource JNDI Name field. Select the Audit JNDI/JDBC datasource you created in the previous step in the pop-up window and click OK



✓ **IMPORTANT Note :**

If you do not see the datasource entry, it could be because of one of the following reasons.

WLS was not restarted after creating the datasource Audit Data Source-0 in WLS

Adminserver is not chosen as a target while creating the datasource.

Confirm that these two steps are addressed in order to be able to see the datasource entry in the EM screen.

Click Apply. Restart WLS for the changes to take effect.

