

Product Configuration Guide  
Oracle Financial Services Balance Sheet Planning  
Version 6.0  
June 2016



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## **1. About this Manual**

This manual provides the required information that Balance Sheet Planning Application administrator needs to setup the application. The document contains steps to create Hyperion Planning Application with BSP specific parameters, Creating Essbase Database, steps for creating Balance Sheet Planning relational data model and other required configurations.

## **2. Audience**

This Manual is meant for use by the Oracle Financial Services Analytical Applications Infrastructure System Administrator or Hyperion System Administrator. It provides step-by-step instructions necessary for configuring the Oracle Financial Services Balance Sheet Planning v6.0 Product.

## **3. Environmental variables configuration**

Set the following environmental variables in the profile for the UNIX user where Hyperion Planning has been installed, if not already set:

- EPM\_ORACLE\_HOME
- MIDDLEWARE\_HOME
- HYPERION\_HOME – Same as EPM\_ORACLE\_HOME
- ORACLE\_HOME - Oracle Client Home
- JAVA\_HOME
- ARBORPATH=\$EPM\_ORACLE\_HOME/products/Essbase/EssbaseServer
- ESSBASEPATH=\$EPM\_ORACLE\_HOME/products/Essbase/EssbaseServer
- NLSPATH=\$EPM\_ORACLE\_HOME/products/Planning/bin/nls/msg/en\_US/ofsmsg.cat:\$EPM\_ORACLE\_HOME/products/Planning/bin/nls/msg/C/ofsmsg.catt
- INIPATH=\$EPM\_ORACLE\_HOME/products/Planning/config
- FIC\_HOME=\$EPM\_ORACLE\_HOME
- FIC\_DB\_HOME=\$EPM\_ORACLE\_HOME/logs/bsplog
- PATH=\$JAVA\_HOME/bin:\$ARBORPATH/bin:\$EPM\_ORACLE\_HOME/products/Planning/bin:\$EPM\_ORACLE\_HOME/products/Planning/config:\$EPM\_ORACLE\_HOME/products/Planning/lib:\$ORACLE\_HOME/bin:\$PATH:\$HOME/bin
- LD\_LIBRARY\_PATH=\$ORACLE\_HOME/lib:\$ORACLE\_HOME/rdbms/public:\$EPM\_ORACLE\_HOME/common/ODBC-64/Merant/6.1/lib:\$EPM\_ORACLE\_HOME/products/Planning/lib:\$ARBORPATH/bin
- LD\_LIBRARY\_PATH\_64=\$LD\_LIBRARY\_PATH:\$LD\_LIBRARY\_PATH\_64
- ODBCINI=\$EPM\_ORACLE\_HOME/common/ODBC-64/Merant/6.1/odbc.ini
- ODBCINST=\$EPM\_ORACLE\_HOME/common/ODBC-64/Merant/6.1/odbcinst.ini

**Note:** You need to make the changes into the .profile file of the UNIX account where Planning and ESSBASE are installed. Oracle client is required on the servers where Hyperion ESSBASE and Planning are installed. BSP uses the Oracle drivers.

## **4. Installation of BSP 6.0 on Hyperion Planning PS2**

If CAPEX and/or WORKFORCE applications are required, initialize CAPEX and/or WORKFORCE after BSP initialization is complete. Furthermore, after initializing the WORKFORCE and/or CAPEX modules you need to perform the following activities.

- Go to Manage->Dimension->Account and Entity Dimensions
- Edit "No Entity" and "No Account" members and select the option "BSP", "Rates" and "Core" Plan types. Perform a database refresh.

If you are upgrading from BSP 5.6, perform the below steps and directly proceed to section "5. Initializing Balance Sheet Planning"

- Upgrade Hyperion Planning PS1 to PS2
- Rename the Dimension member "Assets" to "Asset" under the dimension Chart of Account.
- Delete "LedgerDataLoad" Menu.

### **4.1 Hyperion Planning Application Creation**

**Note:** Setup Classic Planning Application for Balance Sheet Planning as described in Oracle Hyperion Planning, Fusion Edition Administrator's Guide.

Select the value of following options in Create Application Wizard as specified below:

**Application Type:** Generic

**First Fiscal Year -> Start Year:** Set the value as per below illustration

If start year falls in a century between:

1900-2000 – Then start year will be 1980

2000-2100 – Then start year will be 2000

2100-2200 – Then start year will be 2100 and so on.

**Note:** Here, Start year should be any centennial year such as, 2000, 2100, and so on. BSP recommends to use 2000 as the Start year.

**Create 3 Plan Types** as given below:

Plan Type 1: BSP  
Plan Type 2: Rates  
Plan Type 3: Core

In addition to the above, select the below mentioned Plan types:

Plan Type 4: WORKFORCE [WRKFORCE]  
Plan Type 5: CAPEX

Change the Date format in File -> Preferences→Display Options to MM-DD-YYYY

**Note:** While creating the Hyperion Planning Application, you can use any Application Name. BSP does not place any restriction on the Application naming convention. It is recommended to not use any special characters, like &, \*, ', "", %, and so on.

#### **4.2 Create Essbase Database**

- Log in to Balance Sheet Planning Application using the administrator username and password
- Go to Administration->Application->Create Database screen and selection options specified in the screen and create database.

#### **4.3 Create Balance Sheet Planning Relational Data Model**

- Create a tablespace with the user define name. The same table space name should be used in user "Configuration" UI for the variable **TABLESPACE**.

**Note:** Here, this tablespace refers to Oracle TABLESPACE and all the output tables of Cash Flow Engine will be created in this TABLESPACE.

- Create Oracle database user for Balance Sheet Planning Relational Data Model in the tablespace as created in previous step. This database user should have 'create' privileges on tablespace it belongs to
  - This database user is different than Hyperion configuration database users and application data source.

**Note:** BSP requires a distinct schema that is different from the schema created for creation of an application in Hyperion Planning (which is created in section **4.1 Hyperion Planning Application Creation**).

- Assign the following specific privileges to the user created for Balance Sheet Planning. These privileges are

```
GRANT MGMT_USER TO <DBUSERNAME>;
GRANT SELECT_CATALOG_ROLE TO <DBUSERNAME>;
GRANT CREATE PROCEDURE TO <DBUSERNAME>;
GRANT CREATE SEQUENCE TO <DBUSERNAME>;
GRANT CREATE SESSION TO <DBUSERNAME>;
GRANT CREATE SYNONYM TO <DBUSERNAME>;
GRANT CREATE TABLE TO <DBUSERNAME>;
GRANT CREATE TRIGGER TO <DBUSERNAME>;
GRANT CREATE TYPE TO <DBUSERNAME>;
GRANT CREATE VIEW TO <DBUSERNAME>;
```

#### **4.4 Create Data Source DSN to Database**

**Note:** BSP requires only one Data Source, this data-source will point to the Oracle schema where the BSP application will be initialized.

- Open \$HYPERION\_HOME/common/ODBC-64/Merant/6.1/odbc.ini.
- Add a new ODBC Data Source entry pointing to the Oracle-schema into which BSP was initialized, in section 4.3 Create Balance Sheet Planning Relational Model. This name should later be specified in the BSP's configuration UI (available in Planning under Administrator Activities -

> Master Maintenance -> Assumption Forms -> Configuration), as mentioned in Section 5 below.

- The entry should contain information required to connect to the schema created for BSP objects.
- Verify Host Name, Logon ID, Password, Port Number, and SID contain the information required to connect to the schema.

## **5. Initializing Balance Sheet Planning**

- Login into Hyperion Planning
- Go to Administration→Application-->Properties
- In the Properties window Add new row
  - Property Name = APPTYPE Property Value = BSP
  - Restart the Planning Sever
- Go to Administration→Initialization->Balance Sheet Planning.
- Specify the below parameters:
  - Server: Database Server Name/IP Address
  - Port: Database port
  - Database: Database SID
  - User: Username
  - Password: Password for Database schema
  - APS Server: <IPAddress>

Below is a sample screenshot:

The screenshot shows a configuration window titled "Financial Services Data Model". It contains several input fields and a dropdown menu. The "Database Platform" is set to "Oracle". The "APS Server" field contains "10.220.31.85:13080". The "Server" field contains "10.220.31.85". The "Port" field contains "1521". The "Database" field contains "ORCL". The "User" field contains "ofsaabsp". The "Password" field is masked with dots. The "Model" dropdown menu is set to "Standard".

The Model option (in above sample screenshot) allows you to choose the number of custom dimensions that you need for initialization of BSP. This drop-down list has following options:

- Standard – No additional custom dimensions
- Custom 1 - One additional custom dimension
- Custom 2 - Two additional custom dimensions

**Note:** In case you are planning for an integrated installation of BSP with OFSAA applications, you should first initialize BSP as a standalone installation and then point BSP to the OFSAA instance.

- Select "Finish"
- After successful initialization, click the "Configure" button to launch the "Configuration UI".

**Note:** You should pass the valid BSP application name to the config.xml file.

**xmlparserv2.jar** needs to be copied in the **post.sh** script. The DSN name entry should not be missing in the **odbc.ini** file as configured through configuration UI that is, BSP application name (as per provided in config.xml). The mapped DB user details should be correct for the mapped DSN name (against BSP application name) in **odbc.ini** file. There should be an entry in **.profile** file for the mapped user of environment variable called ODBCINI and ODBCINST with proper path for odbc.ini and odbcinst.ini respectively.

- Specify values for the parameters as mentioned under “annexure” section and click “save”.
- Edit the file  
\$EPM\_ORACLE\_HOME/products/Planning/bin/bsp\_user\_profile.sh file to specify the path for ORACLE\_HOME variable.

### **5.1 Set Evaluation Order**

Go to Administration->Dimensions->Evaluation Order tab.

- For BSP Plan type:
  - Set Chart of Account, Attribute Value and then Account Dimension.
- 2 For Rates Plan type:
  - Set Rate Element then Mix Breakout Dimension

### **5.2 Steps to Enable Validation Rules**

Follow the below steps to enable the validation rules:

- 1) Go to Manage data form open the Loan Fees form and click on column A the Loan\_Fees\_VR Validation rule is enable open this rule and select the Chart of Account dimension against attribute of source type in last condition. Then click ok and save the form.
- 2) Go to Manage data form open the Loan Fees Annual form and click on Grid the Loan\_Fees\_VR, Loan\_Fees\_VR1, Validation rules are enable open these rules and select the Chart of Account dimension against attribute of source type in last condition. Then click ok and save the form.
- 3) Go to Manage data form open the Deposit Service Charge form and click on Grid the Dep\_Svc\_Chg\_VR, Validation rules are enable open this rule and select the Chart of Account dimension against attribute of source type in last condition. Then click ok and save the form.
- 4) Go to Manage data form open the Deposit Service Charge Annual form and click on Grid the Dpst\_Svc\_Chg\_Annl\_VR, Loan\_Fees\_VR1, Validation rules are enable open these rules and select the Chart of Account dimension against attribute of source type in last condition. Then click ok and save the form.

- 5) Go to Manage data form open the Synchronization for Balance Accounts form and click on Row1 the Syn\_Assets\_VR, Syn\_Liabty\_VR, Validation rules are enable open these rules and select the Chart of Account dimension against attribute of source type in last condition. Then click ok and save the form

### **5.3 LCM export and Preparation for Metadata Synchronization**

- 1) Post the Loading of Metadata in to BSP Planning Application, the administrator should export the Application Metadata to File System in Shared Services.
- 2) Administrator has to login into Shared Services and Select the BSP Planning Application.
- 3) In the Artifact Summary Page at the right Bottom Submit Select All and then Click Export.
- 4) Here the Administrator defines a LCM Directory Name which has to be provided in Configuration Custom UI in the BSP Application
- 5) Once the LCM export is completed, a folder will be created with the given name in shared services.
- 6) This folder will be located in the import\_export path of the Hyperion Instance chosen during Installation.

### **5.4 Metadata Synchronization**

- 1) After completing the Preparation for Metadata Sync, Login to the BSP application, Select Administrator Activities folder in the left pane.
- 2) Select Master Maintenance form and then Right Click on the menu appeared as large square box.
- 3) From the right click menu Select Metadata Synchronization and choose the type needed by the Administrator Purpose.

## 5.5 Running the post.sh

After installing Balance Sheet Planning (BSP) 6.0, run the post.sh in the directory \$EPM\_ORACLE\_HOME/OPatch/14036211/custom/scripts to change the file permissions.

## 6. Annexure

### List of Parameters

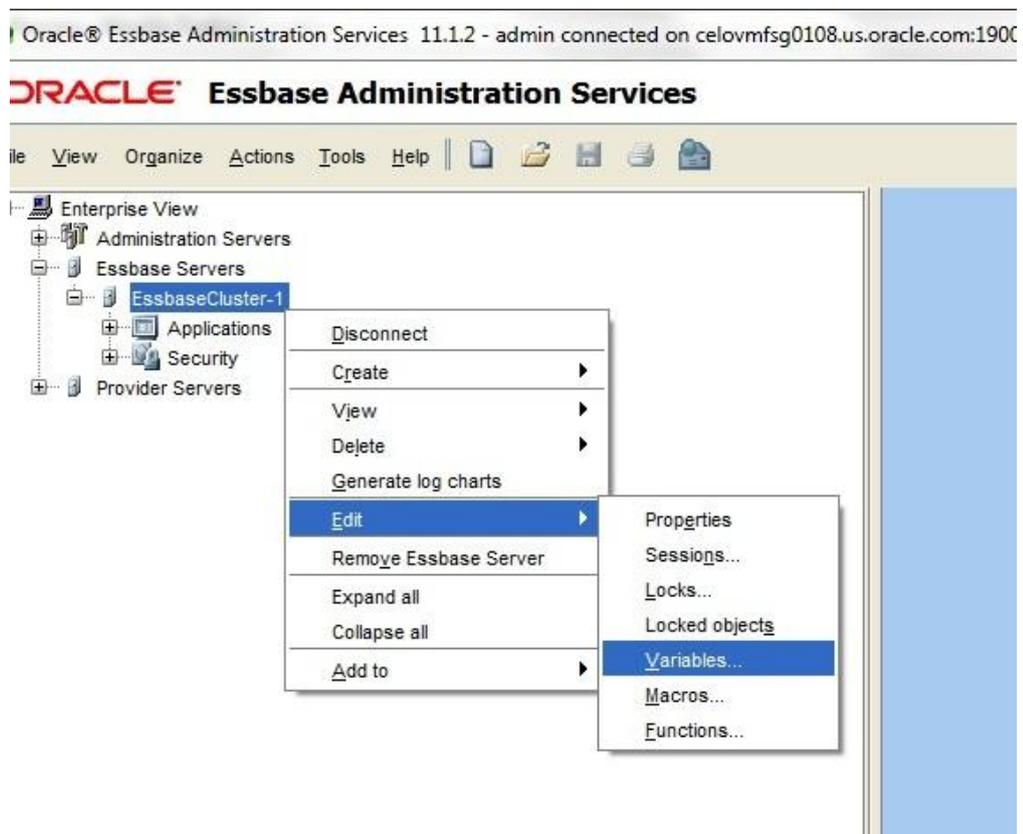
Sl. No.	Parameter Name	Description
1	PASSWORD	Database Password
2	USERNAME	Database User
3	DSNNAME	DSN Name
4	SERVERNAME	Essbase Server Name
5	ESSUSER	Essbase User Name
6	ESSPWD	Essbase Password
7	LCMDIRPATH	LCM Directory path
8	LCMDirName	LCM Directory Name
9	FirstYr	First Year
10	EndYr	End Year
11	CurrMonth	Current Month
12	StartPeriod	Start Period (By Default set to Jan)
13	EndPeriod	End Period (By Default set to Dec)
14	TABSPACE	DB Table Space

## Setting of Substitution Variable

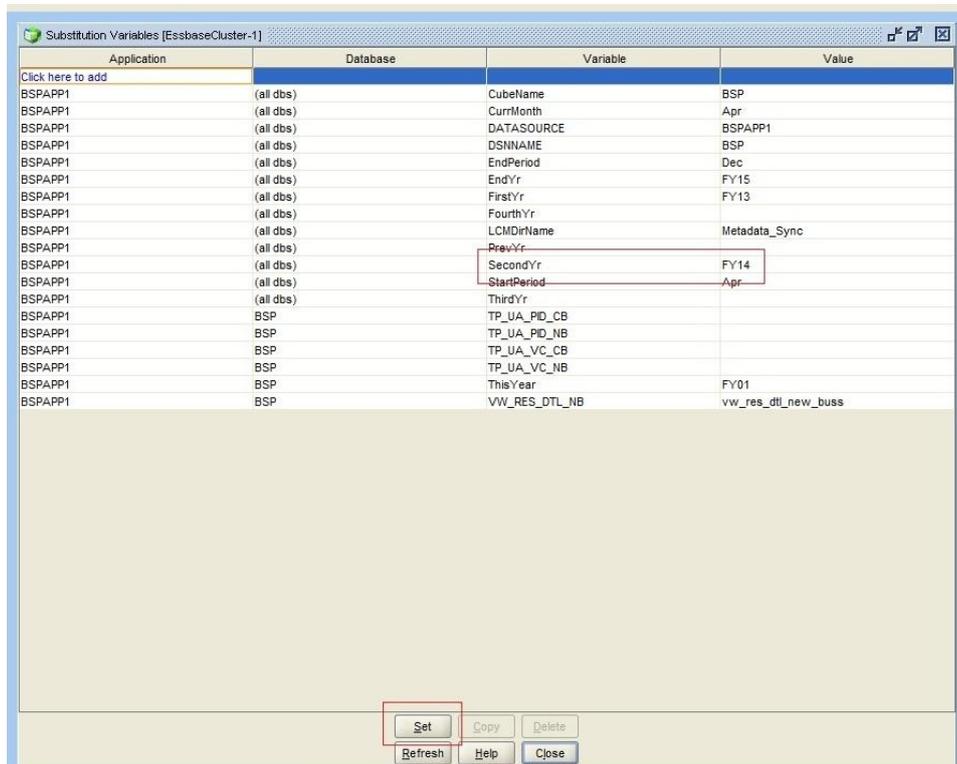
**Note:** If you are attempting to open a Form in BSP and following error appears: "A substitution variable required for this calculation is undefined. Variable: *SecondYr*", then set the **SecondYr** variable in Essbase Administration Services.

SecondYr is a substitution variable. Any other variable can also be appeared in the above error message. Follow the below steps to configure the variable:

1. Log in to EAS Console: <http://<hostname>:19000/easconsole>
2. Click on "Launch"
3. The Essbase Administration Services console will open.
4. Expand Enterprise View -> Essbase Servers.
5. Right-click on your server -> Edit -> Variables.



6. The Substitution Variables window will open. Go to the variable you are looking for and double-click on the value
7. Enter the value and click on Set.

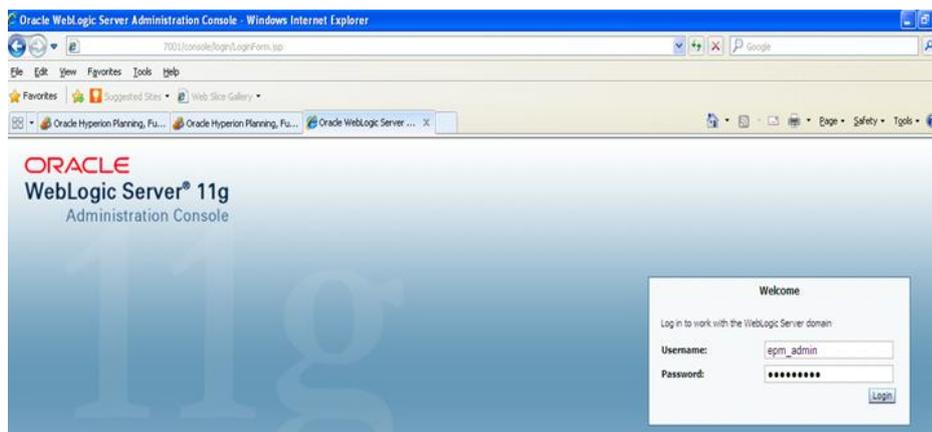


8. Go back to BSP, and reload the Form.

**Note:** Logout and Login are not required.

### Deploying Hyperion Planning in BSP

1. Stop the Planning service (if already running):
  - i. In the UNIX command prompt, check if the Planning service is running using command "ps -aef | grep Planning".
  - ii. Go to Planning bin path ( like  $\$MIDDLEWARE\_HOME/user\_projects/epmsystem1/bin$ ).
  - iii. Run the command `./stopPlanning.sh`.
  - iv. Login to WebLogic Administration Console:  
<http://<<ServerIP>>:7001/console/login/LoginForm.jsp>.



## 2. Click **Deployments**:

The screenshot shows the Oracle WebLogic Server Administration Console. The 'Change Center' panel on the left contains a 'Lock & Edit' button. The main area displays the 'Summary of Deployments' page, which includes a table of installed applications and their status.

Name	State	Health	Type	Deployment Order
APS (11.1.2.0)	Active	OK	Enterprise Application	100
CALC (11.1.2.0)	Active	OK	Enterprise Application	100
DMS Application (11.1.1.0)	Active	OK	Web Application	5
EAS (11.1.2.0)	Active	OK	Enterprise Application	100
em	Active	OK	Enterprise Application	400
FMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5
HyperionPlanning	Active	OK	Enterprise Application	100
proxyservlet (11.1.2.2)	Active	OK	Web Application	100
SHAREDSERVICES (11.1.2.0)	Active	OK	Enterprise Application	100
staticcontent (11.1.2.2)	Active	OK	Web Application	100
WORKSPACE (11.1.2.0)	Active	OK	Enterprise Application	100
ysdl-wls	Active	OK	Enterprise Application	5

In the WebLogic Server: Click the **Lock & Edit** button to edit the console.

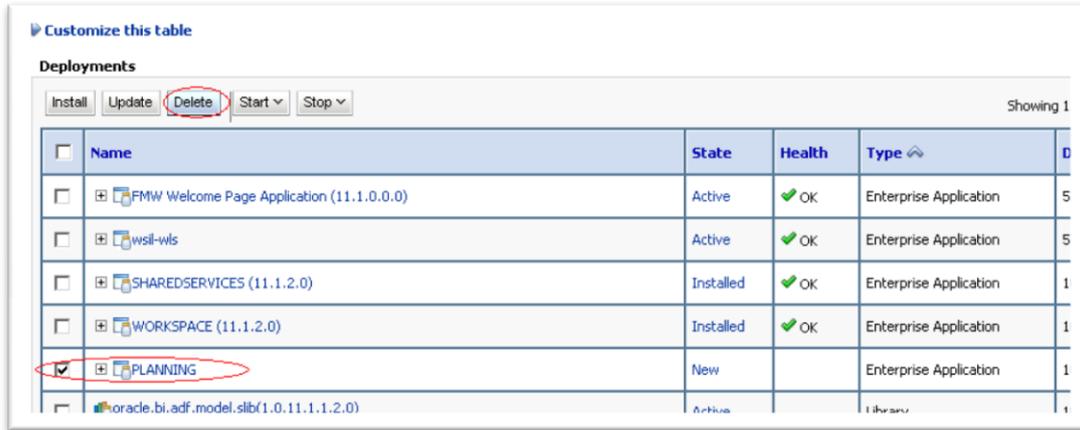
This screenshot is similar to the previous one but includes a black arrow pointing from the 'Lock & Edit' button in the 'Change Center' panel to the main content area of the console.

This is a close-up view of the 'Change Center' panel. It shows the text: 'View changes and restarts. Click the Lock & Edit button to modify, add or delete items in this domain.' Below this text are two buttons: 'Lock & Edit' and 'Release Configuration'. The 'Lock & Edit' button is highlighted with a black arrow.

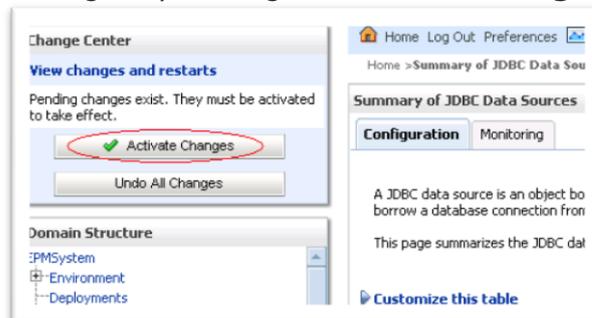
**Take a backup of the ear file:**

\$EPM\_ORACLE\_HOME/products/Planning/AppServer/InstallableApps/Common/HyperionPlanning.ear.

3. Delete the existing Planning deployment in the Weblogic Console.



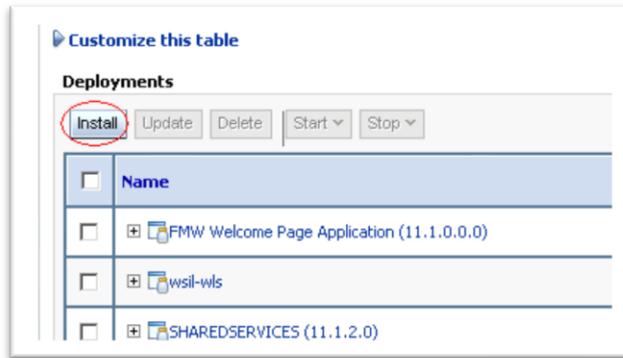
4. Activate the changes by clicking the **Activate Changes** button.



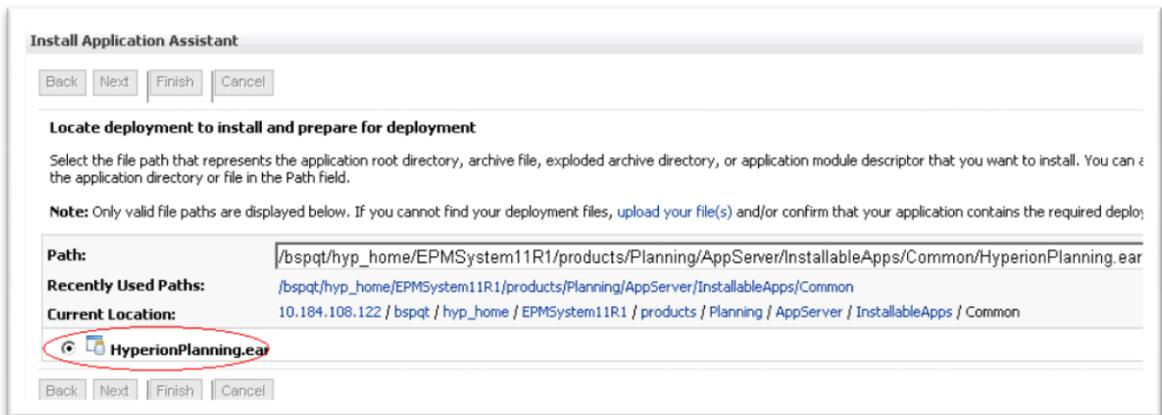
5. Again click the **Lock & Edit** button to create the new Planning deployment.



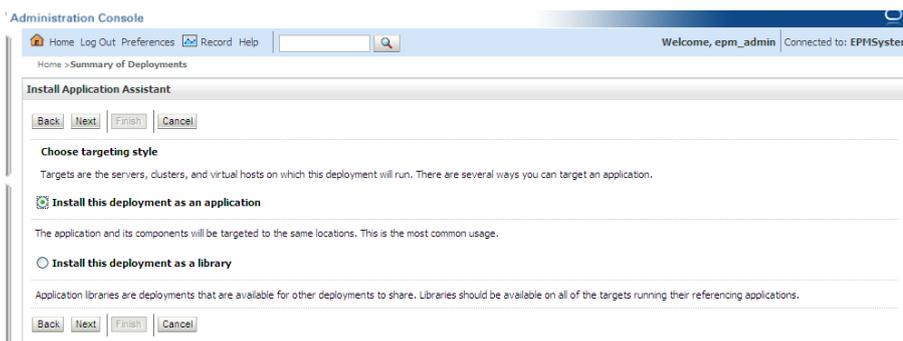
6. Install the Planning Application.
  - i. Click **Install** to install the Planning Application.



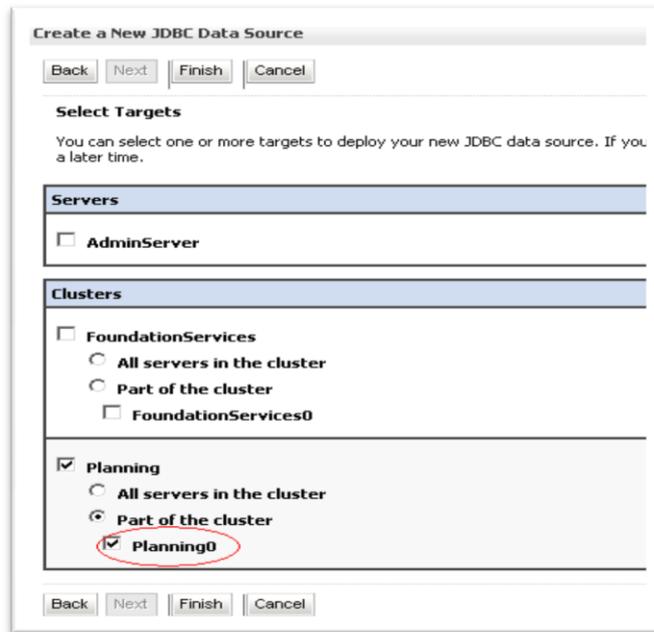
- ii. Select the check Box **"HyperionPlanning.ear"** (Path: Location of HyperionPlanning.ear).



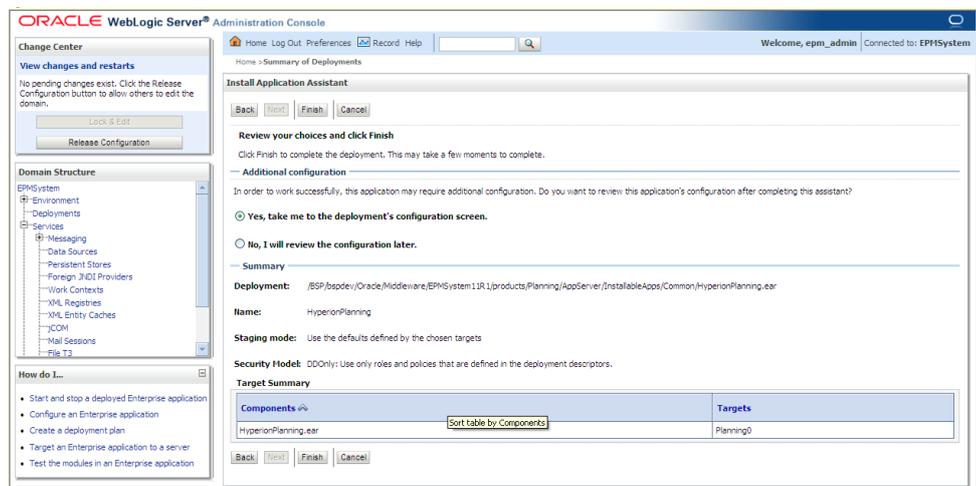
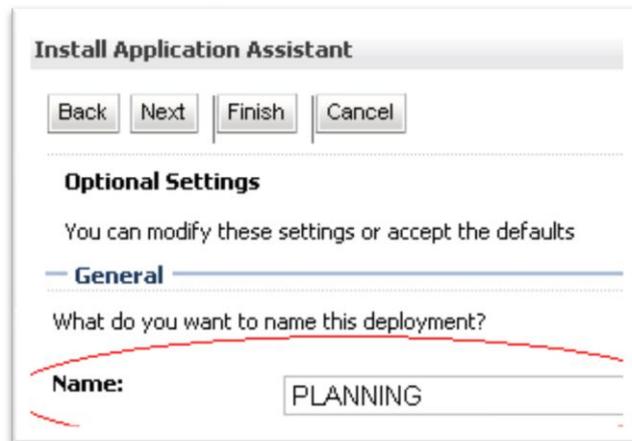
- iii. Select the check Box **Install this deployment as an Application** and click **Next**.



- iv. For Instance Mapping, select **Planning0** as the target to deploy the new JDBC Data Source and then click **Next**.



- v. Give the Name of the Deployment (example **PLANNING** ) and leave all the rest of the options with the default values. Click **Finish**.



- vi. Activate the changes by again clicking the **Activate Changes** button.



7. **Start Planning Services:** Check the Service PLANNING and press Start-> Servicing all requests.

ORACLE WebLogic Server® Administration Console

Home > Summary of Deployments > HyperionPlanning > Summary of Deployments

Welcome, epm\_admin | Connected to: EPMSysSystem

**Summary of Deployments**

Control | Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

**Deployments**

Install | Update | Delete | Start | Stop

Showing 1 to 12 of 12 Previous | Next

<input type="checkbox"/>	Name	State	Health	Type	Deployment Order
<input type="checkbox"/>	APS (11.1.2.0)	Active	OK	Enterprise Application	100
<input type="checkbox"/>	CALC (11.1.2.0)	Active	OK	Enterprise Application	100
<input type="checkbox"/>	DMS Application (11.1.1.1.0)	Active	OK	Web Application	5
<input type="checkbox"/>	EAS (11.1.2.0)	Active	OK	Enterprise Application	100
<input type="checkbox"/>	epm	Active	OK	Enterprise Application	400
<input type="checkbox"/>	FMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5
<input checked="" type="checkbox"/>	HyperionPlanning	New		Enterprise Application	100

Customize this table

**Deployments**

Install | Update | Delete | Start | Stop

Servicing all requests  
Servicing only administration requests

<input type="checkbox"/>	FMW Welcome Page Application (11.1.0.0.0)
<input type="checkbox"/>	wsil-wls
<input type="checkbox"/>	SHAREDSERVICES (11.1.2.0)
<input type="checkbox"/>	WORKSPACE (11.1.2.0)
<input checked="" type="checkbox"/>	PLANNING
<input type="checkbox"/>	oracle.bi.adf.model.slib(1.0,11.1.1.2.0)



## 8. Check Planning Services Up and Running.

(redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Install Update Delete Start Stop

Showing 1 to 12 of 12 Previous Next

Name	State	Health	Type	Deployment Order
APS (11.1.2.0)	Active	OK	Enterprise Application	100
CALC (11.1.2.0)	Active	OK	Enterprise Application	100
DMS Application (11.1.1.1.0)	Active	OK	Web Application	5
EAS (11.1.2.0)	Active	OK	Enterprise Application	100
em	Active	OK	Enterprise Application	400
FMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5
HyperionPlanning	Active	OK	Enterprise Application	100

### List of Log files

- bsplog.log: This is being written BSP initialization and all Assumption Forms UI related log statements.
- BSPCalculation\_UnpricedAcc\_udf.log: This is being written with while user is executing new Business and Current Business.
- Config\_FileCall.log: This is being written with statements related to Database access and import rule data load activities during various BSP business rule executions.
- Data\_Export.log: This is being written with statements related to exported data during various BSP business rule executions.
- DBProcsFuncs\_PAttrr\_Call.log: This is being written with statements for executed database procedures and functions during BSP business rule executions.
- Metadata\_Sync.log: This is being written with statements for Metadata Synchronization activities invoked through BSP business rules.

### In Single tier setup

- BSP generates all log files under path **\$EPM\_ORACLE\_HOME/logs/bsplog**
- BSP generates all Cash flow engine related log files as part of Cash Flow Edit run , New business and Current business execution under path **\$EPM\_ORACLE\_HOME/logs/bsplog/log/FusionApps**

## In Distributed setup

### On Planning Server:

- BSP generates BSP Initialization process and all Assumption Forms UI related log statements in  
**\$EPM\_ORACLE\_HOME/logs/bsplog/bsplog.log**
- BSP generates all Cash Flow Edit runs log statements under path  
**\$EPM\_ORACLE\_HOME/logs/bsplog/log/FusionApps**

### On Essbase Server:

- BSP generates all Business Rule execution related log files under path  
**\$EPM\_ORACLE\_HOME/logs/bsplog**
- BSP generates all Cash flow engine related log files as part of New business and Current business execution under path  
**\$EPM\_ORACLE\_HOME/logs/bsplog/log/FusionApps**

Following tables capture the intermediate stages on database side:

- fsi\_bsp\_process\_log: This is a BSP specific table to capture intermediate state, success and failure message of individual procedure / function executions through BSP business rules.
- fsi\_process\_errors: This is a OFSAAI table which maintains the various information related to Cash flow engine invocations through New business, Current Business, Cash flow edit process runs.
- fsi\_message\_log: This is a OFSAAI table which maintains the various information related to hierarchy members' registration process.



Installation Manual

June 2016

Oracle Financial Services Balance Sheet Planning v6.0 Product

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