OBIEE Metadata Repository Deployment Guide Oracle FLEXCUBE Universal Banking Release 12.87.7.0.0 [May] [2021]



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1. OBIEE Metadata Repository Deployment Guide

1.1 Introduction

The Oracle Business Intelligence Server is a stand-alone process that maintains the logical data model which it provides to BI Presentation Services via ODBC. Metadata is maintained for the data model in a local proprietary file called the repository file (rpd). On the back-end, the BI Server connects to customer data stores via data source adaptors.

1.1.1 Layers in RPD

The Physical layer defines the data sources to which Oracle BI Server submits queries and the relationships between physical databases and other data sources that are used to process multiple data source queries. The recommended way to populate the Physical layer is by importing metadata from databases and other data sources. The data sources can be of the same or different varieties. You can import schemas or portions of schemas from existing data sources. Additionally, you can create objects in the Physical layer manually.

When you import metadata, many of the properties of the data sources are configured automatically based on the information gathered during the import process. After import, you can also define other attributes of the physical data sources, such as join relationships, that might not exist in the data source metadata. There can be one or more data sources in the Physical layer, including databases, spreadsheets, and XML documents. In this example, you import and configure tables from the sample SH schema included with the Oracle 10g database.

The Business Model and Mapping layer of the Administration Tool defines the business, or logical, model of the data and specifies the mappings between the business model and the Physical layer schemas. This is where the physical schemas are simplified to form the basis for the users' view of the data. The Business Model and Mapping layer of the Administration Tool can contain one or more business model objects. A business model object contains the business model definitions and the mappings from logical to physical tables for the business model.

The main purpose of the business model is to capture how users think about their business using their own vocabulary. The business model simplifies the physical schema and maps the users' business vocabulary to physical sources. Most of the vocabulary translates into logical columns in the business model. Collections of logical columns form logical tables. Each logical column (and hence each logical table) can have one or more physical objects as sources.

There are two main categories of logical tables: fact and dimension. Logical fact tables contain the measures by which an organization gauges its business operations and performance. Logical dimension tables contain the data used to qualify the facts.

The Presentation layer is built after the Physical layer and Business Model and Mapping layer and adds a level of abstraction over the Business Model and Mapping layer. It is the view of the data seen by end users in client tools and applications, such as Oracle BI Answers. The Presentation layer provides a means to further simplify or customize the Business Model and Mapping layer for end users. For example, you can organize columns into catalogs and folders.

Simplifying the view of the data for users makes it easier to craft queries based on users' business needs because you can expose only the data that is meaningful to the users, organize the data in a way that aligns with the way users think about the data, and rename data as necessary for the set of users.



You typically create Presentation layer objects by dragging objects from the Business Model and Mapping layer. Corresponding objects are automatically created in the Presentation layer. Presentation layer objects can then be renamed and reorganized.

1.1.2 FCUBS OBIEE RPD

In FCUBS OBIEE we have module specific RPDs. They are named in the format Module Name.RPD (for example FT.RPD, SI.RPD etc.). In this document we will see how merge all module specific RPDs to FCUBS Metadata RPD. We will also see how to deploy sample dashboards generated using these RPDs.

1.2 **Prerequisites**

1.2.1 Hardware / Software Required

| Server | Oracle 10G AS 10.1.3.3, OBI 10.1.3.3.1, Oracle 10g client, OBIEE 11.1.1.6.0 | |
|---------------------|---|--|
| Client Workstations | Internet Explorer 6.0, Win2K/Windows XP | |

1.3 Deployment in OBIEE 10g

There are two major steps in deploying an OBIEE Dashboard, first we need to create the data object metadata (.rpd file) in the OBIEE Administration tool. Then, using the OBIEE Web, we create the Answers based on the .rpd file and assemble them in a Dashboard.

If the OBIEE server is present in Linux machine then merging of module specific repositories should be done using OBIEE Administration Tool installed on Windows machine and the merged repository should be copied from Windows to Linux machine in binary mode.

1.3.1 <u>RPD Deployment Steps:</u>

- Open the following shipment media directory for RPD files. For the modules where modularity has been done, the RPDs will be under <<ShipmentMedia>>\SOFT\FLEXCUBE_Kernel\<Release_Folder>\MAIN\<<Module Code>>\OBIEE For example, <<ShipmentMedia>>\SOFT\FLEXCUBE_Kernel\<Release_Folder>\MAIN\BC\OBIEE For the modules where modularity has not been done, the RPDs will be under <<ShipmentMedia>>\SOFT\FLEXCUBE_Kernel\<Release_Folder>\MAIN\Other_Modules\OB
- Copy and paste the released .rpd files into local installation directory (D:\OBIEE\RPD). If the
- Copy and paste the released .rpd files into local installation directory (D:\OBIEE\RPD). If the released .rpd files already there in the local installation directory overwrite them with the newly released files.
- 3. Open the FCUBS_Full_Schema.RPD using OBIEE Administration Tool, which will have following tree structure in it.



| 🖸 Oracle Bl Administration Tool - FCUBS_Full_Schema.rpd | | | | | | |
|---|----------------------------|------------------|--|--|--|--|
| ile Edit View Manage Tools Window Help | | | | | | |
| D 🛎 🛎 🗛 X 🖻 🛍 Z N N N 1 | | | | | | |
| Presentation | Business Model and Mapping | Physical | | | | |
| | | E I FlexCube | | | | |

4. Open each remaining module specific RPDs (Ex. FT.rpd, PC.rpd, FX.rpd Etc.), one at a time using Administration Tool and do the following. (Username/Password : Administrator/Administrator)

Copy the aliases in the Synonyms folder and paste it to Synonyms folder of 'FCUBS_Full_Schema.RPD'.

| E- KERNE | LDEV | | | | |
|--------------------|---------------------------------------|--|--|--|--|
| - Sconnection Pool | | | | | |
| 🗄 💼 PC | | | | | |
| 🚊 🕘 Synonyms | | | | | |
| ÷ | CSTBS_ACCROLE | | | | |
| ÷ | CSTBS_AMOUNT_TAG | | | | |
| ÷ | CSTBS_EVENT | | | | |
| ÷ | CSTMS_PRODUCT | | | | |
| ÷ | CSTMS_PRODUCT_ACCROLE | | | | |
| ÷ | CSTMS_PRODUCT_EVENT | | | | |
| ÷ | CSTMS_PRODUCT_EVENT_ACCT_ENTRY | | | | |
| | CSTMS_PRODUCT_EVENT_ADVICE | | | | |
| | CSTMS_PRODUCT_GROUP | | | | |
| +… | CYTMS_CCY_DEFN | | | | |
| + | CYTMS_RATE_TYPE | | | | |
| +== | GLTMS_GLMASTER | | | | |
| +…== | MITMS_COST_CODE | | | | |
| | MITMS_DEFAULT_CODES | | | | |
| | | | | | |
| | MITMS_POOL_CODE | | | | |
| | MITMS_PRODUCT_DEFAULT | | | | |
| | MSTMS_MSG_TYPE | | | | |
| | PC_CSTBS_ACCROLE | | | | |
| | PC_CSTBS_AMOUNT_TAG PC_CSTBS_EVENT | | | | |
| | PC_CSTBS_EVENT | | | | |
| | PC_CSTMS_PRODUCT_ACCROLE | | | | |
| | PC_CSTMS_PRODUCT_EVENT | | | | |
| | PC_CSTMS_PRODUCT_EVENT_ACCT_ENT. | | | | |
| | PC_CSTMS_PRODUCT_EVENT_ADVICE | | | | |
| | PC_CSTMS_PRODUCT_GROUP | | | | |
| | PC_CYTMS_CCY_DEFN | | | | |
| | PC_CYTMS_RATE_TYPE | | | | |
| | PC_GLTMS_GLMASTER | | | | |
| | PC_MITMS_COST_CODE | | | | |
| | PC_MITMS_DEFAULT_CODES | | | | |
| | DO NITHO NIC LICKD | | | | |

5. Copy and paste the module specific physical folder to the destination repository under database in the physical layer.



| KERNELDEV | | | | |
|--|--|--|--|--|
| Sconnection Pool | | | | |
| 🖶 🚔 PC | | | | |
| ⊕ ■ PC_PCTMS_CLIENT_AGREEMENT | | | | |
| ⊕ ■ PC_PCTMS_CREDITOR_ID | | | | |
| 🕀 🔣 PC_PCTMS_DEBTOR_CATEGORY_DEFN | | | | |
| PC_CSTMS_PRODUCT (row count was not update | | | | |
| 🕀 🔣 PC_STTMS_CUSTOMER | | | | |
| 🖶 🌃 PC STIMS CUST ACCOUNT | | | | |

6. Copy and paste the module specific business model to the business model and mapping layer of Full schema repository.

| Business Model and Mapping | | | | | |
|----------------------------|---|--|--|--|--|
| | Contract Master Dimdim Dim Bank Param, Type Values, Country(periodic Inst). Dim For Cstms Product Event Acct Entrydim | | | | |
| Business | Model and Mapping | | | | |
| | | | | | |
| | | | | | |

7. Copy and paste the module specific presentation catalog(s) to the presentation layer of Full schema repository.



- 8. Close the repository and continue with other module repositories.
- 9. Save the Full Schema repository.
- 10. Import Initialization Blocks and Variables
- 11. From Full Schema RPD do the following
- 12. Enable the 'Import from Repository' by checking the option in Tools->Options as follows.



| Options 🛛 🔀 |
|--|
| General Sort Objects Cache Manager Multiuser More Image: Tile when resizing Display qualified names in diagrams Display qualified names in diagrams Display original name for alias in diagrams Image: Display original name for alias in diagrams Show Calculation Wizard introduction page Check out objects automatically Image: Show row count in physical view Show toolbar Show statusbar Image: Prompt when moving logical columns Remove unused physical tables after Merge Image: Allow import from repository Allow import from repository |
| OK Cancel Help |

13. Click 'OK' and the following screen is displayed:

| 🗢 Oracle BI Administration Tool - Metadata1 | | | | | | | | |
|---|---|--------------|------------|-------|--------|----|-----------------|----------|
| File | Edit | View | Manage | Tools | Window | V | Help | |
| O M Cl Sa Sa | ew pen ultiuse lose ave ave As opy As | · · · · · | | | | | | Busi |
| In | nport | | | | | ſ | from Database | ٦. |
| C | ompar | e | | | | ٦. | through Server | |
| Tu | urn off | Compa | are Mode | | | | from Repository | |
| Μ | erge | | | | | | from XMLA | |
| C | heck G | ilobal C | onsistency | | Ctrl+K | ן | | - |

14. Ignore the following alert and click 'Yes'.

| I | Deprecated feature warning! | | | | | |
|---|--|--|--|--|--|--|
| | The feature "Import from repository" has been deprecated and will not be supported any more. Please consider using projec extract and merge instead. Are you sure you want to continue? | | | | | |
| | Yes No | | | | | |

15. Select the module specific source repository from the select repository to update from window as follows:

| Repository Import Wizard - Select Repository to Update from | | | | | | |
|---|----------------------|--------------------------|--|--|--|--|
| Select repository to update from: | | | | | | |
| Repository | Repository Mode Type | | | | | |
| 🔞 AnalyticsWeb | Online | DSN | | | | |
| BS_Full_Scher | na Offline | Oracle BI Administration | | | | |
| KERNELDEV.rp | d Offline | Repository | | | | |
| 😥 Metadata1.rpd | Offline | Repository | | | | |
| 😥 paint.rpd | Offline | Repository | | | | |
| PC.rpd | Offline | Repository | | | | |
| 😥 UBS_Full_Scher | na.rpd Offline | Repository | | | | |
| 😥 UsageTracking. | rpd Offline | Repository | | | | |

Note: Select Repository to update the list of repositories available in OracleBI\server\Repository only. So, temporarily keep module specific repositories in this location and remove the repositories once this step is completed.

16. Click 'Next', will show you the objects needs to be imported. Select 'Initialization Block' from the drop-down menu and click on 'Add with Children'.

| Repository Import Wizard | - Objects to Update | 9 | | |
|--------------------------|-----------------------|--------------------------|---------------|------------------|
| | Initialization Blocks | | • | <u>R</u> efresh |
| | Current_Date | Add | 🗊 Current_Dat | e (with childrer |
| | | Add with Children | | |
| | | Add with <u>P</u> arents | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| ORACLE | | | | |
| | | | | |
| | | <u>R</u> emove | < | > |
| | | | | |
| | < <u>B</u> ack | <u>N</u> ext > | Cancel | |

17. Click 'Next' and click 'Finish'.



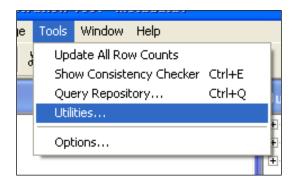
| Repository Import Wizard | - Finish | |
|--------------------------|--|---|
| | Following objects will be updated or created: | ~ |
| | Variable "Current_Date"."CurrentDate" Initialization Block "Current_Date" | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| ORACLE | | |
| | | |
| | | |
| | < | > |
| | | |
| | < <u>B</u> ack Finish Cancel | |

18. If labels need to be NLS enabled, externalize the each presentation catalog as follows.



| Presentat | ion | | |
|---------------------------------------|--|--------|---|
| | New Presentation Table | | |
| | Disalasi Dalata d | | |
| ÷ | Display Related | · · | |
| ± | Check Out | | |
| <u>+</u> <u>+</u> | Cut | Ctrl+X | |
| + | Сору | Ctrl+C | |
| i i i i i i i i i i i i i i i i i i i | Paste | ⊂lrl+V | |
| + | Delete | Del | |
| ÷ | Mark | | |
| + | Set Icon | | |
| +… | Duplicate | | |
| + | Duplicate with Business Model | | |
| +··· | Expand All | | |
| | Check Consistency | | |
| + | Business Model Diagram | → - | |
| i i i i i i i i i i i i i i i i i i i | Physical Diagram | | |
| + | Rename | | |
| + | Properties | | |
| ÷ 🗉 🗸 | Externalize Display Names | | |
| | Externalize Descriptions | | |
| | Contract Parties Details | | |
| | Contract Payment Acceptance Exe | | |
| | Contract Payment Acceptance Fat | e | |
| | Contract Payment Exception | | |
| | Contract Payment Fate Contract Shipment Information | | |
| | Contract Shipment Information | | |
| | Contract Udf | | |
| | Drafts Details | | |
| | Due Amount | | |
| + | FX Linkage Details | | |
| + | ICCF Calculation | | |
| +…= | ICCF Calculation Temp | | |
| | ICCF Details | | |
| . ∓ | ICCF Details Temp | | • |

- 19. Save the Full Schema repository.
- 20. Remove Unused Physical Objects as follows:





| Utilities | X |
|--|---------------------------|
| Replace Column or Table in Logical Table Sources Oracle BI Event Tables Externalize Strings Rename Wizard Update Physical Layer Repository Documentation Generate Metadata Dictionary <u>Remove Unused Physical Objects</u> Aggregate Persistence Wizard | Execute Cancel Help |

| Remove Unused Physical Objects | × | | | | |
|---|---|--|--|--|--|
| These objects are not used. Do you want to delete them? | | | | | |
| Type: Physical Table | • | | | | |
| F Show Qualified Name | | | | | |
| A 01-02 ACVWS_ALL_AC_ENTRIES 2 (Balance Upd = U) OB-01 ACTM_IB_SETUP OR 12-01 CSTBS_CONTRACT OR 15-01 STTBS_ACCOUNT OR 99 === ORIGINAL OBJECTS SOURCE === OE ACCESS_GRID_ENTITIES | | | | | |
| ACCESS_GRID_ENTITY_DETAILS | ~ | | | | |
| Selected 9964 of 9964 objects (9964 displayed) | | | | | |
| Yes <u>N</u> o <u>H</u> elp | | | | | |

- 21. Click 'Yes'
- 22. Stop the Oracle BI Server & Oracle BI Presentation server services from services window.

| 🆏 Oracle BI Java Host | | Started | Automatic | Local System |
|-------------------------------------|---------------|-----------|-----------|--------------|
| 🆏 Oracle BI Presentation Server | | Started | Automatic | Local System |
| 🆓 Oracle BI Scheduler | | | Manual | Local System |
| 🍓 Oracle BI Server | Start | Started | Automatic | Local System |
| 🏶 OracleClientCache80 | Stop | | Manual | Local System |
| 🆓 OracleDBConsoleorcl | Pause | Started | Automatic | Local System |
| 🖏 OracleJobSchedulerORCL | Resume | | Disabled | Local System |
| 🖓 Oracleoracle10gDBiSQL*Plus | Restart | Started | Automatic | Local System |
| 🖓 Oracleoracle10gDBTNSListener . | Restart | _ Started | Automatic | Local System |
| 🖏 Oracleoracle10gDBTNSListenerS_NQ | All Tasks 🔹 🕨 | · | Automatic | Local System |
| CracleServiceORCL | Refresh | Started | Automatic | Local System |
| Performance Logs and Alerts | Rerresh | _ | Manual | Network S |
| Plug and Play | Properties | Started | Automatic | Local System |
| Portable Media Serial Number Servic | | - | Manual | Local System |
| Print Spooler | Help | Started | Automatic | Local System |

23. If server is present in Linux then go to <InstallDrive>/OracleBI/setup folder and execute the following command to stop BI Server and BI Presentation Server.

./run-sa.sh stop

./run-saw.sh stop

24. Rename the repository to FlexCube.rpd and put in following location:

OracleBI\server\Repository

If Server is present in Linux machine then copy FlexCube.rpd in binary mode to:

<OracleBI InstallDir>\server\Repository



25. Open OracleBI\server\config\NQSConfig.INI and change the property as below:

Star=FlexCube.rpd, DEFAULT;

Under CACHE set ENABLE = NO

| 📕 NQSConfig. INI - Notepad | | | | | |
|--|--|--|--|--|--|
| File Edit Format View Help | | | | | |
| ###################################### | | | | | |
| <pre># # Repositories are defined as logical repository name - file name # pairs. ODBC drivers use logical repository name defined in this # section. # # All repositories must reside in OracleBI\server\Repository # directory, where OracleBI is the directory in which the Oracle BI # Server software is installed. #</pre> | | | | | |
| | | | | | |
| <pre>Star = FlexCube.rpd, DEFAULT; ####################################</pre> | | | | | |
| [CACHE] ENABLE = NO; // A comma separated list of <directory maxsize=""> pair(s) // e.g. DATA_STORAGE_PATHS = "d:\OracleBIData\nQSCache" 500 MB;</directory> | | | | | |

1.3.2 Web Catalog Deployment Steps

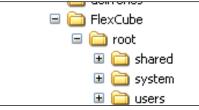
In OracleBIData\web\catalog create a folder called 'FlexCube'. Change catalog path in OracleBIData\web\config\instanceconfig.xml to point to FlexCube as follows.

| xml version="1.0" encoding="utf-8"? |
|---|
| <webconfig></webconfig> |
| <serverinstance></serverinstance> |
| <dsn>AnalyticsWeb</dsn> |
| <catalogpath>D:/OracleBIData/web/catalog/FlexCube</catalogpath> |
| <javahome>C:\Program Files\Java\jdk1.5.0_06</javahome> |
| <biforofficeurl>client/OracleBIOffice.exe</biforofficeurl> |
| |

1. Restart the presentation services.

| 🎇 Oracle BI Cluster Controller | | | Manual | Local S |
|--|-------------|---------|-----------|---------|
| 🆏 Oracle BI Java Host | | Started | Automatic | Local S |
| 🍓 Oracle BI Presentation Server | | Started | Automatic | Local S |
| 🆓 Oracle BI Scheduler | Start | | Manual | Local S |
| 🆓 Oracle BI Server | Stop | Started | Automatic | Local S |
| 🆓 OracleClientCache80 | Pause | | Manual | Local S |
| 🆓 OracleDBConsoleorcl | Resume | Started | Automatic | Local S |
| 🍓 OracleJobSchedulerORCL | Restart | | Disabled | Local S |
| 🆓 Oracleoracle10gDBiSQL*Plus | All Tasks 🕨 | Started | Automatic | Local S |
| 🍓 Oracleoracle10gDBTNSListener | | Started | Automatic | Local S |
| 🆓 Oracleoracle10gDBTNSListenerS_NQ_SCHED | Refresh | | Automatic | Local S |
| 🆓 Oracleoracleas1ASControl | Properties | Started | Automatic | Local S |
| 🍓 Oracleoracleas 1 Process Manager | Fropercies | Started | Automatic | Local S |
| CracleServiceORCL | Help | Started | Automatic | Local S |

- If server is present in Linux then go to <InstallDrive>/OracleBI/setup folder and execute the following command to start BI Presentation Server. ./run-saw.sh start
- 3. You will see directory created in following structure in OracleBIData\web\catalog.



- Open the following shipment media directory for Web catalogs.
 <<Shipment Media>>\SOFT\FLEXCUBE_Kernel\<Release_Folder>\<<Module Code>>\OBIEE
- 5. Copy and paste the released .zip files into local directory (D:\OBIEE\WebCatalog). Overwrite with released files, if files already exist.
- 6. Extract all the zip files.
- 7. Copy and paste the extracted files (Except .xml files) into OracleBIData\web\catalog\FlexCube\root\shared

Copy and paste the .xml files into OracleBI\web\msgdb\customMessages.

1.3.3 Web Catalog Permissions Changes

1. Once all the module specific web catalogs are extracted to the above location, use catalog manager to change the permissions of all presentation objects. This is required if the user wants to edit the saved answers and dashboard.

| Oracle Business Intelligence Catalog Mana | ager | | | | | |
|---|---|------|--------------------|-------------|------------|------------|
| File Edit View Tools Help | | | | | | |
| Cut Copy Paste 🔬 Search Explore | | | | | | |
| 🖞 Tree 🛛 🗖 🗖 | 🛅 Table 🗙 | | | | | - E |
| | | | | | | Go |
| | Name | Туре | Owner | My Permissi | Attributes | Date Creat |
| | Copen Catalog Type: Offline Path D:\OracleBIData\web\u User: Administrator Password: Read-Only | CK | Browse Cancel | | | |
| | | 1111 | | | | > |
| | | | | | | |

- 2. Open FlexCube catalog in the offline mode as shown above and change the permissions as shown below.
- 3. Select each module folder and right-click and select 'Properties' Select the owner as 'Administrator' and Check the 'Apply Recursively' enabled as follows:

| Cut Copy Peste Search Explore Image: Tree I |
|---|
| SE Fourier Administrator Full Thu Jun 1 SI RE Folder Administrator Full Thu Jun 1 users SE Folder Administrator Full Thu Jun 1 SI SE Folder Administrator Full Thu Jun 1 SI Folder Administrator Full Thu Jun 1 |

4. Select 'Properties' and the following screen appears:



| Properties | |
|---|--|
| a | PC Edit XML |
| Type: Path: | Folder /shared/PC |
| Created: Modified: Last Accessed: | Thu Jun 12 12:05:02 IST 2008 Thu Jun 12 14:51:00 IST 2008 Thu Jun 12 18:58:33 IST 2008 |
| Owner: | Administrator |
| Attributes: | 🗖 Read-Only 🗖 Hidden 🗐 System |
| Properties: | Name Value |
| | Edit New Delete |
| Apply Recursively | |
| | OK Cancel |

Again, select the folder, right-click and select 'Permissions'.

| Oracle Business Intelligence Catalog Man | ager - D:\OracleBIDat | a\web\catalog\FlexCube | | | | |
|--|---|--------------------------------|------------------------|---------------|------------------|--------------------------|
| File Edit View Tools Help | | | | | | |
| Cut Copy Paste al Search Explore | | | | | | |
| 🖞 Tree 🛛 🗖 🗖 | 🌐 Table 🗙 | | | | | - 6 |
| | /shared | [• • • • | | L M. Demotori | [and the second | Go |
| | Name | Type | Owner | My Permissi | - | Date Creat |
| ibots | devices | Folder Folder | System Acc | | System, Hi | Thu Jun 12 |
| mktgdefaults | | Cut Ctrl+x | Svstem Acc stem Acc | | System, Hi | Thu Jun 12 Thu Jun 12 |
| BC | | Copy Ctrl+c | | | System, Hi | Thu Jun 12 Thu Jun 12 |
| CF | BC | Paste Ctrl+v | ministrator | Full | System, Hi | Thu Jun 12 Thu Jun 12 |
| <u></u> | | Create Shortcut | ministrator | Full | | Thu Jun 12 |
| | <u>a</u> a | Delete Delete | | Full | | Thu Jun 12 |
| | CS CDV . | Rename | ministrator | Full | | Thu Jun 12 |
| FT | | Smart Rename (fix refs) | ministrator | Full | | Thu Jun 12 |
| | | Refresh | ministrator | Full | | Thu Jun 12 |
| | EX EX | | ministrator | Full | | Thu Jun 12 |
| | GLMIS | Create Folder Create Report | ministrator | Full | | Thu Jun 12 |
| | | Create Report | ministrator | Full | | Thu Jun 12 |
| PC | | Preview | ministrator | Full | | Thu Jun 12 |
| 🔁 RE | С — — — — — — — — — — — — — — — — — — — | Permissions | ministrator | Full | | Thu Jun 12 |
| | PC | Properties | muministrator | Full | | Thu Jun 12 |
| 🔁 5I | RE | Folder | Administrator | Full | | Thu Jun 12 |
| | 🗀 SE | Folder | Administrator | Full | | Thu Jun 12 |
| users | 🗀 SI | Folder | | Full | | Thu Jun 12 |
| | | | | | | |
| | < | IIII | | | | > |

5. Change the permissions by selecting the 'Everyone' in left and change the permission to 'Full Control' and Check the 'Apply Recursively' enabled like below:



| O Permissions | | | | |
|-----------------------------------|--------------|-----|---|-----------------|
| 🗀 PC | | | | |
| Users and groups (Explicit permis | sions) | | Additional users and groups | |
| Name | Permission | | Name | Туре |
| Everyone | Full Control | < > | Authenticated Users Presentation Server Administ | Group Group |
| < | > | | < | > |
| Apply Recursively | | | , In the second | now groups only |
| | | | ОК | Cancel |

If the server is present in Linux Machine then zip the catalogs which are present in

OracleBIData\web\catalog\FlexCube\root\shared

Except the default folders (ie _devices, _disconnected, _ibots, _mktgdefaults and the corresponding .atr files) from windows and copy it to

OracleBIData\web\catalog\FlexCube\root\shared in Linux machine

6. Once all the above steps done, start the Oracle BI Server, Oracle BI Presentation Server services from Services window.

If server is present in Linux then go to <InstallDrive>/OracleBI/setup folder and execute the following command to start BI Server and BI Presentation Server.

./run-sa.sh start

./run-saw.sh start

7. Start OC4J from Programs->Oracle Business Intelligence->Start OC4J

In Linux go to <InstallDrive>/OracleBI/oc4j_bi/bin and execute the following commands to restart the OC4J

oc4j –stop

oc4j -start

- 8. Login to Presentation services from Programs->Oracle Business Intelligence->Presentation Services.
- 9. Enable 'Write Back option to Database' by going to:

Settings->Administration->Manage Privileges->Write Back to Database

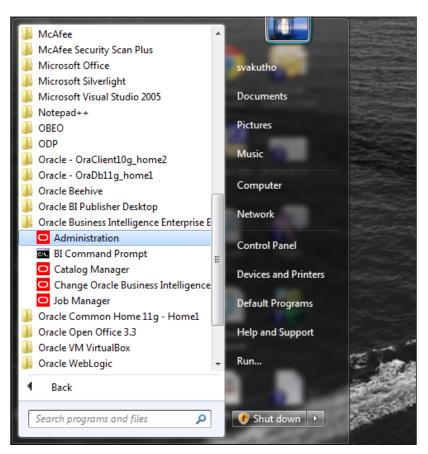
10. Provide privilege for Presentation Service Administrator.



1.4 Deployment in OBIEE 11g

1.4.1 Rpd Connection Changes

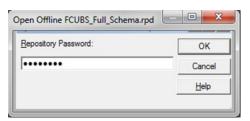
1. Open 'OBIEE Administration tool'.



2. Open rpd in the offline mode.



3. Enter the Password: Admin123 and click 'OK'.



4. Double-click on connection pool.



| Oracle BI Administration Tool - FCUBS_Full_Schema.rpd | | | |
|--|----------------------------|--|--|
| <u>File Edit View Manage Tools D</u> iagram <u>W</u> indow <u>H</u> elp | | | |
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| Presentation | Business Model and Mapping | Physical | |
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| Connection Pool : "FlexCube". "Connection Pool" | | NUM | |

5. Change the Data source name.

| Connection Pool - Conn | ection Pool |
|-------------------------|-------------------------------------|
| General Connection So | cripts XML Write Back Miscellaneous |
| Name: Connection | Pool Permissions |
| <u>C</u> all interface: | OCI 10g/11g 💌 |
| Maximum connections: | 10 ÷ |
| Require fully qualifie | ed table names |
| Data source name: | KD12NEW |
| Shared logon | |
| User name: | FCUSB121DEV Password: ••••••• |
| Enable connection | pooling |
| <u>T</u> imeout: | 5 (minutes) 💌 |
| Use multithreaded of | connections |
| Parameters support | ed |
| Isolation level: | Default 👤 |
| Description: | |
| | <u>^</u> |
| | |
| | |
| | |
| | <u> </u> |
| | OK Cancel Help |

Change Data source name for the marked info given in the below format:

(DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = <Host Address>)(PORT = <Port>)))(CONNECT_DATA = (SERVICE_NAME <Servicename>)))



6. Enter the User ID and Password and click OK. Again, enter the same password when it prompts. Save the Rpd changes.

| Connection Pool - Conne | ection Pool | |
|----------------------------|----------------------------------|----------------|
| General Connection Sc | ripts XML Write Back Miscellaned | ous |
| Name: Connection | Pool | Permissions |
| <u>C</u> all interface: | OCI 10g/11g | • |
| Maximum connections: | 10 🛟 | |
| Require fully qualifie | d table names | |
| D <u>a</u> ta source name: | (DESCRIPTION = (ADDRESS_LIST | = (ADDRESS = (|
| Shared logon | | |
| User name: | FCUBSDEV Password: | ••••• |
| Enable connection | pooling | |
| <u>T</u> imeout: | 5 | (minutes) 💌 |
| Use multithreaded c | onnections | |
| Parameters supporte | ed | |
| Isolation level: | Default | - |
| Description: | | |
| | | <u> </u> |
| | | |
| | | |
| | | |
| | | <u>_</u> |
| | OK Cance | I Help |

7. Click 'OK' and the follwing screen is displayed:



| Confirm Pass | word | × |
|--------------|-------|--------|
| Password: | ••••• | |
| | ОК | Cancel |

8. Click 'OK' and the following screen is displayed:

| Oracle BI Administration Tool | × |
|---------------------------------|------------|
| Do you wish to check global cor | nsistency? |
| Yes <u>N</u> o | Cancel |

9. Click 'Yes'.

| Check Consistency | |
|-----------------------------|--------|
| Running Consistency Check | |
| Invalid Use of EvaluateAggr | |
| | |
| | |
| | Cancel |



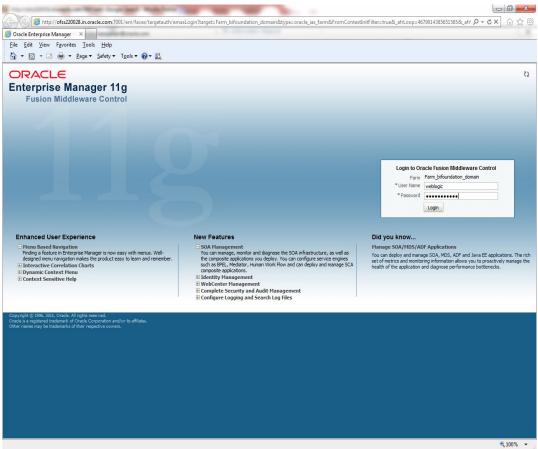
10. Click 'Close' in below window.

| Message | Object Type | Object | Error No. | Error Description |
|---------|-------------|--------|-----------|-------------------|
| Туре | | | | |
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1.4.2 Deploying RPD using Enterprise Manager

1. Login to OBIEE Enterprise Manager using OBIEE Admin User ID and Password.







- Farm bifoundation domain (Oracle Fusion Middleware Farm) Oracle Enterprise Manager (weblogic) Mozilla Firefox Eile Edit View History Bookmarks Icols Help - 0 <u>- ×</u> 🖸 Error 500--Internal Server Error 🛛 🗙 💭 Oracle BI Catalog 🛛 👋 💭 Farm_bifoundation_domain (Oracle F... 🗙 🕂 🌾) 🗇 ofss220331.in.oracle.com:7001/em/faces/as/as/vi/FarmHome?target=Farm_bifoundation_domain&type=oracle_ias_farm&_afrLoop=2757521891522367#%4t 🏠 🗢 🦿 🚺 😽 - Google ۶ 🏫 ORACLE Enterprise Manager 11g Fusion Middleware Control Setup → Help → Log Out 🕂 Farm 👻 🔒 Topology Farm_bifoundation_domain 🕡 Logged in as weblogic == E Farm_bifoundation_domain Page Refreshed Mar 25, 2013 4:58:19 PM IST E Application Deployments WebLogic Domain
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 AdminServer

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 Before You Begin
 (a) Introduction to Oracle Fusion Middleware
 (b) Indistanding Key Oracle Fusion Middleware Fam Concepts
 (c) Understanding Key Oracle Fusion Middleware Administration Tools
 Typical Administration Tasks
 (c) Centry State Using Oracle Enterprise Manager Fusion Middleware Control
 (c) Starting and Stopping Oracle Fusion Middleware
 (c) Deploying an Application Using Fusion Middleware
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- 2. Click on core application under Business Intelligence Folder as shown.



3. Click on Lock and Edit and go to Deployment Tab.

| Error 500Internal Server Error × | Oracle BI Catalog × Business Intelligence Instance × + | <pre></pre> |
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| | BI Server Repository | Apply |
| | This section shows the current installed RPD. You can use this section to configure a shared RPD location. | 10000 |
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| | Default RPD EIS_MIS_BI0009 | |
| | Share Repository | |
| | RPD Publishing Directory | |
| | | |
| | Upload BI Server Repository | |
| | Use this section to upload a new RPD and its password to your BI Server domain. You may also use this section to re-enter the password to your BI Server domain. | vord if a mistake was made on a previous upload. |
| | Repository File Browse | |
| | Repository Password | |
| | Confirm Password | |
| | Commen Password | |
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| | BI Presentation Catalog | |
| | This section shows the current location of the catalog used by Presentation Services. Use this section to change the location of the c | atalog, or to share the catalog by pointing to a shared |
| | location. | |
| | Catalog Location \$ORACLE_INSTANCE/bifoundation/OracleBIPresentationServicesComponent/\$COMPONENT_NAME/catalog | ng/SampleApplite |
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4. Click on Browse and select the Rpd to make it online.

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| | Confirm Password | | | |
| | BI Presentation Catalog | | | |
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 Coreapplication Overview Availability Capacity Management Diagnostics Security Deployment 🗄 🛅 Metadata Repositories Presentation Repository Scheduler Marketing Mail **BI Server Repository** Apply This section shows the current installed RPD. You can use this section to configure a shared RPD location. Default RPD GE_POC_GL_EIMIS_Demoold BI0052 Share Repository RPD Publishing Directory Upload BI Server Repository Use this section to upload a new RPD and its password to your BI Server domain. You may also use this section to re-enter the password if a mistake was made on a previous upload. Repository File FCUBS_Full_Schema.rpd Update... Repository Password Confirm Password BI Presentation Catalog This section shows the current location of the catalog used by Presentation Services. Use this section to change the location of the catalog, or to share the catalog by pointing to a shared location. Catalog Location \$ORACLE_INSTANCE/bifoundation/OracleBIPresentationServicesComponent/\$COMPONENT_NAME/catalog/Sam
- 5. Enter the Repository password and Confirm Password as Admin123/Admin123.

- 6. Click 'Apply'.
- 7. Click' Activate Changes'.



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| | Upload BI Server Repository | |
| | Use this section to upload a new RPD and its password to your BI Server domain. You may also use this section to re-enter the password if a mistake was made on a | provious |
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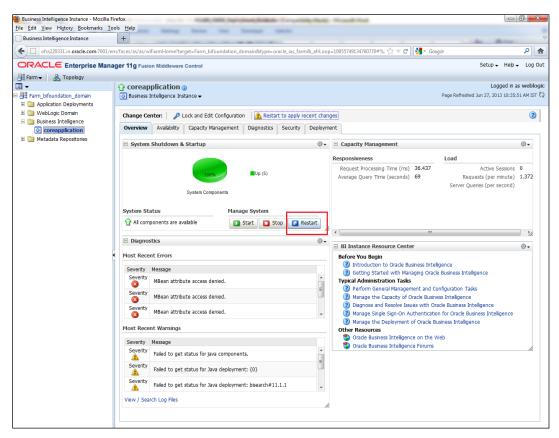


8. Let the below process to complete and click 'Close'.

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| | Confirmation | |
| | Activate Changes - Completed Successfully | |
| | Upload B: | |
| | Use this se Done | ter the password if a mistake was made on a previous |
| | upload. | |
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| | Repository Password | |
| | Confirm Password | |
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| | This section shows the current location of the catalog used by Presentation Services. Use this section to change the pointing to a shared location. | e location of the catalog, or to share the catalog by |
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9. Click 'Restart' the instance to take the effect of changes.



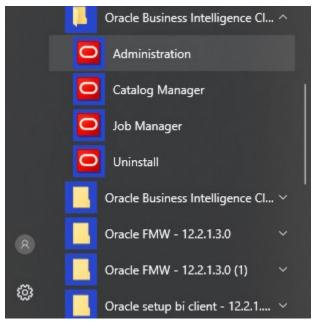
This completes the deployment.



1.5 Deployment in OBIEE 12c

1.5.1 Rpd Connection Changes

1. Open OBIEE 'Administration' tool.



2. Open rpd in the offline mode.

| Oracle BI Administration Tool | Viewing Vara Prasad Burla's screen | _ & × |
|---------------------------------|---|---|
| Eile Tools Help | | |
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| Quid De Lib | Name Date modified Type PCUBS_Full_Schema.ppd B/7/2018 10.23 AM R9D File res PC PC PC | Q. Q. +++++++++++++++++++++++++++++++++ |
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| | Files of type: Repository Files (* rpd) Cancel | |
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| for Help, press F1 | | NUM |

3. Enter the password as Admin123 and click 'OK'.



| Repository Password: | OK |
|----------------------|--------|
| ••••• | Cancel |
| | Help |

4. Double-click on the Flexcube in the physical layer present on the right. It opens the database properties.

| esentation | Business Model and Mapping | Physical |
|--|--|---|
| esentation I G CS I T V I F V I SI I SI Subsystems | Business Model and Mapping © CS ÷ 0 0 OV ÷ 0 0 FA ÷ 0 0 FA ÷ 0 0 FA ÷ 0 0 FA ÷ 0 0 FA Subsysteme | Physical □ □ □ PheOuble □ C Connecton Pool □ □ DV □ □ DV □ □ FX □ □ SI □ |
| | | |

5. In the Database Properties, change the Database Type to 'Oracle12c'.



| Database - FlexCube | |
|----------------------|------------------------------------|
| Display Folders | Database Properties Miscellaneous |
| General | Features Connection Pools |
| | ' ' 'l |
| Name: FlexCub | e |
| , | |
| Data source defini | tion |
| Database type: | Oracle 10g R2 |
| | Oracle 10g R2 |
| CRM metadata | Oracle 10g XE |
| | Oracle 11g |
| | Oracle 11g on Exadata |
| | Oracle 12c |
| Persist connection | Oracle 12c In-Memory |
| | Oracle 12c In-Memory on Exadata |
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| | |
| Allow direct data | Orade OLAP 12c |
| Description | Orade RPAS |
| Description: | OradeADF |
| | OradeADF11g |
| | SAP BW Native |
| | SAP/BW 3.5/7.0 |
| | SQL Anywhere 8 |
| 1 | SQL Anywhere 9 |
| | SQL Server 2005 |
| | SQL Server 2008 |
| | SQL Server 2012 |
| | SQL Server 7.0/2000 |
| | Sybase ASE 15.0 |
| | Sybase IQ 12.7 |
| | Teradata V12 |
| | Teradata V13/V14 |
| | Teradata V2R4 |

1. Change Data source name for the marked info given in the below format:

(DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = <*Host* Address>)(PORT = <*Port*>)))(CONNECT_DATA = (SERVICE_NAME <*Servicename*>)))

Eg:

(DESCRIPTION=(ADDRESS_LIST =(ADDRESS = (PROTOCOL = TCP)(HOST = whf00brs.in.oracle.com)(PORT = 1522)))(CONNECT_DATA =(SERVICE_NAME = FC142DEVPDB2)))

| I Untitled - Notepad | (director) | 10.00 | 8 | | |
|---|--------------------|----------------------------------|--|--|----|
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| (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = | (PROTOCOL = TCP)(H | OST = <ip adress="">)(PORT</ip> | = <portno>))) (CONNECT_DATA =</portno> | = (SERVICE_NAME = <servicename>)))</servicename> | A |
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2. Enter the User ID and password and click OK. Again enter the same password when it prompts. Save the Rpd changes.

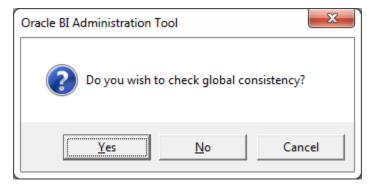
| Connection Pool - Conn | ection Pool _ 📃 🗙 |
|--|--|
| General Connection So | ripts XML Write Back Miscellaneous |
| Name: Connection | Pool Permissions |
| <u>C</u> all interface: <u>M</u> aximum connections: <u>R</u> equire fully qualified <u>Da</u> ta source name: <u>S</u> hared logon <u>U</u> ser name: <u>U</u> ser name: <u>I</u> meout: <u>U</u> se multithreaded of <u>D</u> ata source name | ed table names (DESCRIPTION=(ADDRESS_LIST =(ADDRESS = (PRO) FC142IUT Password: pooling 5 (minutes) connections |
| Parameters support Isolation level: | Default |
| Description: | _ |
| | |
| | OK Cancel Help |

3. Click 'OK' and the follwing screen is displayed:

| Confirm Pass | word | x |
|--------------|-------|--------|
| Password: | ••••• | |
| | ОК | Cancel |



4. Click 'OK' and the following screen is displayed:



5. Click 'Yes'.

| Check Consistency | |
|-----------------------------|--------|
| Running Consistency Check | |
| Invalid Use of EvaluateAggr | |
| | |
| | |
| | Cancel |

6. Click 'Close' in below window.

| Message Type | Object Type | Object | Error No. | Error Description | |
|-----------------|-------------|--------|-----------|-------------------|--|
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1.5.2 Merge Repositories

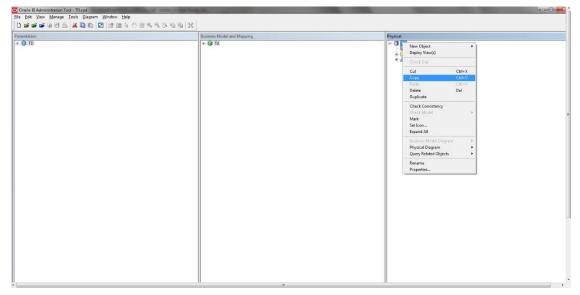
To Merge Repositories and to make FCUBS_Full_Schema.rpd we need to follow below steps.

All the OBIEE repositories are in MAIN/<Module>/OBIEE_11g

1. Open the 'FCUBS_Full_Schema.rpd' from svn. This is an empty repository.



- 2. Open the repository to be merged eg TD.rpd
- 3. Copy TD folder under Physical layer in TD rpd and paste in physical layer of FCUBS_Full_Schema.rpd.



4. After pasting, FCUBS_Full_Schema.rpd would look like below:

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5. Similarly copy the folders from Business model and Presentation layer from 'Td.rpd' to 'FCUBS_Full_Schema.rpd'. Then 'FCUBS_Full_Schema.rpd' would like below:



| on | Business Model and Mapping | Physical | |
|-------|--|---|--|
| л | Burines Model and Mapping IV Tel | Physical Connection Real Connection Real Con | |
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- 6. Please follow the order of Physical, Business Model and Presentation layer to paste in 'FCUBS_Full_Schema.rpd'.
- 7. Save the repository and do a global consistency check to see 0 errors. Similarly repeat the merging process for all modules.

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1.5.3 Deploying RPD using putty

1. Copy the rpd in the below path in OBIEE server.

Path :<Oracle_Home>/user_projects/domains/bi/bitools/bin

Example Path : /scratch/app/obi12213/user_projects/domains/OBIEE12C/bitools/bin

2. Run putty and then go to path:



cd <Oracle_Home>/user_projects/domains/bi/bitools/bin

Example cd /scratch/app/obi12213/user_projects/domains/OBIEE12C/bitools/bin

3. Run the below command from the putty to deploy RPD.

Syntax:

sh data-model-cmd.sh uploadrpd -I <RPDname> [-W <RPDpwd>] -SI <service_instance> -U <cred_username> [-P <cred_password>] [-S <hostname>] [-N <port_number>] [-SSL] [-H]

Example:

sh datamodel.sh upload**rpd** -I FCUBS_Full_Schema.**rpd** -W Admin123 -SI ssi -U weblogic -P weblogic123





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