Oracle Financial Services International Financial Reporting Standards Application Pack

Installation Guide

Version 8.0.3.0.0

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Version Number	Revision Date	Changes Done
1.0	Created: August 2016	Captured 8.0.3.0.0 Release enhancement updates.
2.0	Modified: August 2016	Added details of one-off patch 24412483.
3.0	Modified: October 2016	Moved Model Resave utility section from OFS Enterprise Modeling Framework User Guide to this guide.
4.0	Modified: December 2016	Added limitation for Model Resave web service not supported on the Tomcat server in section Model Resave Utility. Added troubleshooting information in the FAQs section for "package 'ORE' not found" message in the log file.
5.0	Modified: February 2017	Updated sections Installing OFS AAAI Application Pack and Pre Installation Requirements with edits for accuracy of file names and folder paths.
6.0	Modified: March 2017	Modified Update Constraints Utility section based on Bug 25769588.
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Executive Summary

This document includes the necessary instructions to apply 8.0.3.0.0 Minor Release for OFS Advanced Analytical Applications Infrastructure Application Pack and perform the required post-install configurations. You can find the latest copy of this document in the OHC Documentation Library.

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Preface

This document provides step-by-step instructions to install the Oracle Financial Services International Financial Reporting Standards Application Pack (OFS IFRS) 8.0.3.0.0 Minor Release.

This chapter discusses the following topics:

- Audience
- How this Guide is Organized
- Recommended Environment
- Related Documents
- Conventions and Acronyms

Audience

The OFS IFRS pack Installation and Configuration Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

The document assumes you have experience in installing Enterprise components. Basic knowledge about the OFS IFRS pack components, OFSAA Architecture, UNIX commands, Database concepts, and Web Server/ Web Application Server is recommended.

Prerequisites for the Audience

The document assumes that you have experience in installing Enterprise components and basic knowledge about the following is recommended.

The following are the expected preparations from the administrator before starting the actual installation:

- Oracle Financial Services Advanced Analytical Applications Infrastructure pack components
- OFSAA Architecture
- UNIX Commands
- Database Concepts
- Web Server/Web Application Server

How this Guide is Organized

The OFS IFRS pack Installation and Configuration Guide includes the following topic:

- OFS IFRS Release 8.0.3.0.0.

Recommended Environment

The infrastructure application has been tested with Microsoft Internet Explorer™ browser. For best viewing of Infrastructure pages, set the screen resolution to a minimum resolution of 1024 x 768 pixels.

Related Documents

For more information, refer to the OFS IFRS Pack 8.0.3.0.0 documents available in OHC Documentation Library.

- *Oracle Financial Services International Financial Reporting Standards Application Pack Installation Guide 8.0.0.0.0*
- *Oracle Financial Services Loan Loss Forecasting and Provisioning User Guide 8.0.3.0.0*

Conventions and Acronyms

Conventions	Description
Actions are indicated in **Bold.** Command or query is indicated in `Courier New font.`	
AIX	Advanced Interactive eXecutive
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OFS AAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
RHEL	Red Hat Enterprise Linux
ML	Maintenance Level
Atomic Schema	Database schema where the application data model is uploaded.
Config Schema	Database schema which contains setup related configurations and metadata.
DEFQ	Data Entry Forms and Queries
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise JavaBean
ERM	Enterprise Resource Management

Conventions	Description
FTP	File Transfer Protocol
GUI	Graphical User Interface
HTTPS	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
JDBC	Java Database Connectivity
JDK	Java Development Kit
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
JVM	Java Virtual Machine
OHC	Oracle Help Center

1 OFS IFRS Pack Release 8.0.3.0.0

This Minor Release of Oracle Financial Services International Financial Reporting Standards Application Pack (OFS IFRS) is cumulative and includes all enhancements and bug fixes done since the OFS IFRS Application Pack v8.0.0.0.0 GA release. For more information, refer the *Oracle Financial Services IFRS Release 8.0.0.0.0 Installation Guide* in OHC Documentation Library.

1.1 Supported Software Versions

You can refer to the OFSAA Technology Matrix 8.0.3.0.0 in OHC Documentation Library to know more about the software versions that are supported by this release of OFS IFRS.

1.2 Pre Installation Requirements

- You should have installed either OFS IFRS Application Pack version 8.0.0.0.0 or OFS IFRS Application Pack version 8.0.2.0.0 (using Full Installer).

  NOTE: You can refer to Technology Matrix for Hardware and Software Requirements.

- OFS IFRS Application Pack 8.0.3.0.0 installer update patch has been regularized with Bug 23251358-Object Registration is failing with duplicate Constraint Names. This has been bundled as a utility called Update Constraints utility and is executed as part of the 8.0.3.0.0 patch installation.
  - It is advised to take a backup of the atomic schema for each Information Domain in the OFSAA instance before applying the patch.
  - Execution of the utility is a memory intense process as the entire steps involved for performing a full model upload is carried out as part of the utility for each of the Infodom. The OFSAA installation server needs to have twice the allocated memory, which is assigned using parameter `X_ARGS_APPS`.
  - The utility creates three temporary tables- `REV_TAB_CONSTRAINTS_U`, `REV_TAB_REF_CONSTRAINTS_U`, and `REV_TAB_CONSTRAINT_COLUMNS_U`. If the atomic schema has any of these tables already created for a different purpose, take a backup and drop/ rename.
  - As in the model upload process, for the applications that follow logical model upload like OFS_AML in BD pack, the utility does not play any role, since the persistence of the model is outside the purview of the utility. Any similar cases, which involve only logical model upload should be considered and taken care of by the user.

    For more information about the utility execution and log files information, see the Update Constraints Utility section.

- Upgrade of IFRS Application Pack to 8.0.3.0.0 mandates upgrade of Oracle Financial Services Asset Liability Management Application Pack and Oracle Financial Services Profitability Application Pack to 8.0.3.0.0 release. Until these dependent Application Packs are upgraded, the respective Applications within these packs will be disabled from the UI.
- The PATH variable in the **.profile** file should be set to include the Java Runtime Environment absolute path. The path should include the java version (java 6, java 7, or java 8) based on the configuration.
- Download the one-off patch 24412483 from My Oracle Support.
- Download the one-off patch 25777667 from My Oracle Support.

NOTE: Ensure that the ACL feature is not set in Linux Server, during installation.

1.3 How to Apply This Minor Release?

1.3.1 Installing OFS IFRS

Refer to the following instructions to download, extract, install, and configure this Minor Release.

1. Login to https://support.oracle.com/ and search for **24438725** under the *Patches & Updates* tab.
2. Download the OFS IFRS Application Pack v8.0.3.0.0 archive file and copy it to your OFSAA server in **Binary** mode.

   NOTE: The archive files are different for every operating system like AIX, Solaris, and RHEL/Oracle Linux.
3. Log in to the OFSAA Server.
4. Shut down all the OFSAAI Services. For more information, refer to the *Start/Stop Infrastructure Services* section in *Oracle Financial Services IFRS Release 8.0.0.0.0 Installation Guide* in OHC Documentation Library.
5. Assign WRITE permission to the files/folders such as common scripts, EXEWebService, ficapp, ficweb, and ficdb in the **$FIC_HOME** folder by executing the command:

   ```
   chmod -R 750 $FIC_HOME
   ```
6. If you have Unzip utility, skip to the next step. Download the Unzip utility (OS-specific) and copy it in **Binary** mode to the directory that is included in your PATH variable, typically **$HOME** path or directory in which you have copied the 8.0.3.0.0.
   - Uncompress the unzip installer file using the command:

     ```
     uncompress <unzip utility filename>
     ```

NOTE: In case you notice an error message "**uncompress: not found [No such file or directory]**" when the package is not installed, contact your UNIX administrator.

- Give EXECUTE permission to the file using the command:

  `chmod 751 OFS_IFRS_80300_<OperatingSystem>.zip.`

7. Extract the contents of the 8.0.3.0.0 archive file using the command:

   `unzip_<os> -a <name of the file to be unzipped>`

   NOTE: The above "**-**`an`" option is mandatory to unzip the archive file. For example:
   `unzip_aix -a OFS-IFRS_80300_<OperatingSystem>.zip`

8. Give EXECUTE permission to the archive file. Navigate to the path *OFS_IFRS_80300_<OperatingSystem>.zip* and execute the command:

   `chmod 750 OFSAAIUpdate.sh`

9. Configure the **Param.conf** file present under *OFS_IFRS_PACK/OFS_IFRS/conf* folder, as follows:

   - **Model Upload Process**: Enter either 0 or 1.
     - 0 - Skip Model Upload
     - 1 - Trigger Model Upload
   - If you have selected 1 in the previous step, select the option of the type of Model upload as either 0 or 1.
     - 0 - Released Data Model
     - 1 - Customized Data Model
   - If you have selected 1 in the previous step, provide the inputs for the **Data Model Name** and the **Path of Data Model**.

10. Execute **OFSAAIUpdate.sh** file using the following command:

    ./OFSAAIUpdate.sh

    Verify if the Minor Release is applied successfully by checking the following log files generated in the installation folder:

    - <IFRS_Patch_Installer_Folder>/OFS_IFRS_PACK/logs/OFSAAIUpdate.log
    - <IFRS_Patch_Installer_Folder>/OFS_IFRS_PACK/OFS_IFRS/logs/<log>

    You can ignore ORA-00001, ORA-00955, ORA-02260, and ORA-01430 errors in the log file. In case of any other errors, contact Oracle Support.

11. Install the one-off patch 24412483. For more details, refer the Read Me available with the patch.
12. Install the consolidated one-off patch 25777667. Refer to the Readme available with the patch for further instructions on installing the patch.
13. Verify the `Update.log` file located at `$FIC_HOME/utility/UpdateConstraints/logs` folder which is created by Update Constraint utility.

    Execution status information of the utility is available against each Information domain. For success, "*Update successful*" message is displayed. If it is successful, verify the following references for new constraint names:

    - ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml
    - Constraint scripts under ftpshare/<INFODOM>/erwin/scripts/table
    - Constraint scripts under ftpshare/<INFODOM>/scripts
    - Object registration tables for constraints, REV_TAB_CONSTRAINTS, REV_TAB_REF_CONSTRAINTS, REV_TAB_CONSTRAINT_COLUMNS.
    - Oracle Data Dictionary in the respective atomic schema for each Infodoms.

    In case of errors in the `Update.log` file, identify the failed Infodoms. Then troubleshoot and execute the standalone utility for the failed Infodoms. See How to execute the Update Constraints Utility section.
14. After successful installation of this Minor Release, perform the following steps:
    - Clear the application cache. Navigate to the following path depending on the configured web application server and delete the files.
      - **Tomcat**:
        <Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp
      - **Weblogic**:
        <Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>/qaelce/jsp_servlet
      - **Websphere**:
        <Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>
15. Add umask 0027 in the `.profile` of the UNIX account which manages the WEB server to ensure restricted access permissions.
16. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying

EAR / WAR file, refer to the *Post Installation Configuration* section in *Oracle Financial Services IFRS Release 8.0.0.0.0 Installation Guide* in OHC Documentation Library.

17. After the successful installation of the Minor Release, restart all the OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in *Oracle Financial Services IFRS Release 8.0.0.0.0 Installation Guide* in OHC Documentation Library.

1.4 Update Constraints Utility

This utility applies a new naming convention to constraints (PK and FK) to resolve the following issues:

- For tables with similar names which are relatively long (>27 characters) where the initial few characters differ (for example, STG_COMMON_ACCOUNT_SUMMARY, FCT_COMMON_ACCOUNT_SUMMARY), the constraint names get generated as same causing an Oracle error of duplicate constraints.
- When the number of foreign keys for a table is more than 100, the length of the constraint name exceeds the permissible limits allowed by Oracle Database.

The new naming convention has the following logic. A Unique ID gets generated for each data model entities. The new constraint name will be generated by appending the unique ID with 'FK' or 'PK' (along with a sequence for FK). For example, PK on DIM_ACCOUNT will be formed as PK_101, where 101 is the unique id of DIM_ACCOUNT. Similarly, FKs on FCT_ACCOUNT_SUMMARY will be FK_206_01, FK_206_02, FK_206_03, FK_206_04, where 206 is the unique id of FCT_ACCOUNT_SUMMARY and the table has 4 FKs.

This utility gets executed as part of the OFSAAI 8.0.3.0.0 patch installation. After the successful installation of the OFSAAI 8.0.3.0.0 installer patch, verify the `Update.log` file located at `$FIC_HOME/utility/UpdateConstraints/logs` folder that is created by Update Constraint utility. Else, the value of AAI_MU_UTIL_UPDATE_CONS. V_FLAG_VALUE of the Config Schema table. If its value is 'N' against an Infodom, it is identified as a failure.

In case of errors, identify and troubleshoot the failed Infodoms. Once you have completed the troubleshooting, execute the standalone utility for the failed Infodoms.

1.4.1 How to Execute the Utility

Utility performs the backup of the following files under `ftpshare/<INFODOM>_encon_bkp` but restoration is not done.

- ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml
- Constraint scripts under ftpshare/<INFODOM>/erwin/scripts/table
- Constraint scripts under ftpshare/<INFODOM>/scripts

To execute the utility, perform the following steps:

1. Navigate to `$FIC_HOME/utility/UpdateConstraints/bin/` folder and grant RWX (755) permissions for all executables (.sh files).
2. Execute the utility manually for each of the failed information domains.

   `$FIC_HOME/utility/UpdateConstraints/bin/execute.sh $INFODOM`
3. If the process is successful, verify the following references for new constraint names:
   - `ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml`
   - Constraint scripts under `ftpshare/<INFODOM>/erwin/scripts/table`
   - Constraint scripts under `ftpshare/<INFODOM>/scripts`
   - Object registration tables for constraints, `REV_TAB_CONSTRAINTS`, `REV_TAB_REF_CONSTRAINTS`, `REV_TAB_CONSTRAINT_COLUMNS`.
   - Oracle Data Dictionary in the respective atomic schema for each Infodoms.
4. In case of failure, refer to the utility's log and identify the cause of the failure. Resolve the issues before proceeding with the re-run of the utility. For more queries, contact Oracle Support Services.

1.4.2 Troubleshooting

Utility goes through six different steps, which can be traced with the below messages.

NOTE: At every stage identify the cause of the failure and resolve the issues before proceeding with the re-run of the utility:

Steps	Description	Action to be taken

Steps	Description	Action to be taken
1	Generate Scripts and updating DATABASE.XML	**Step 1**: Restore the file backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/fipxml/<INFODOM>_DATABASE.xml** to the destination **ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml**. **Step 2**: Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/scripts/table** to the destination folder **ftpshare/<INFODOM>/erwin/scripts/table**. **Step 3**: Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/scripts** to the destination folder **ftpshare/<INFODOM>/scripts**. **Step 4**: Re-run the utility.
2	Triggering Object Registration	**Step 1**: Restore the file backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/fipxml/<INFODOM>_DATABASE.xml** to the destination **ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml**. **Step 2**: Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/scripts/table** to the destination folder **ftpshare/<INFODOM>/erwin/scripts/table**. **Step 3**: Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/scripts** to the destination folder **ftpshare/<INFODOM>/scripts**. ▪ **Step 4**: Re-run the utility.

Steps	Description	Action to be taken
3	Gathering information about previous constraint names	**Step 1**: Restore the file backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/fipxml/<INFODOM>_DATABASE.xml** to the destination **ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml**. **Step 2**: Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/scripts/table** to the destination folder **ftpshare/<INFODOM>/erwin/scripts/table**. **Step 3**: Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/scripts** to the destination folder **ftpshare/<INFODOM>/scripts**. **Step 4**: Re-run the utility.

Steps	Description	Action to be taken

4	Alter constraints	**Step 1:**
		Execute the following statements to drop the backup tables in Atomic Schema:
		`Drop table REV_TAB_CONSTRAINTS_U;`
		`Drop-Table REV_TAB_REF_CONSTRAINTS_U ;`
		`Drop table REV_TAB_CONSTRAINT_COLUMNS_U;`
		Step 2:
		Restore the file backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/fipxml/<INFODOM>_DATABASE.xml** to the destination **ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml**.
		Step 3:
		Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/erwin/scripts/table** to the destination folder **ftpshare/<INFODOM>/erwin/scripts/table**.
		Step 4:
		Restore the folders backed up at **ftpshare/<INFODOM>_encon_bkp/scripts** to the destination folder **ftpshare/<INFODOM>/scripts**.
		Step 5:
		Modify `r_rename_cons.sql` that is available in the `$FIC_HOME/utility/UpdateConstraints/Scripts/<INFODOM>` folder by adding semicolon at the end of each line.
		Step 6:
		Execute the file `r_rename_cons.sql` in the Infodom Atomic Schema.
		Note: Ignore any ORA errors related to 'constraint does not exist'.
		Step 7:
		Re-run the utility.

Steps	Description	Action to be taken

5	Clear data of previous constraints	This can be considered as a successful case. However, the user needs to execute the following SQL commands.
		Step 1:
		Execute the following statements to drop the backup tables in Atomic Schema:
		`Drop table REV_TAB_CONSTRAINTS_U;`
		`Drop-Table REV_TAB_REF_CONSTRAINTS_U ;`
		`Drop table REV_TAB_CONSTRAINT_COLUMNS_U;`
		Step 2 :
		Execute the statement in Configuration Schema, after replacing <INFODOM> with the respective information domain:
		`UPDATE aai_mu_util_update_cons SET V_FLAG_VALUE='Y',V_UPDATE_DATE=SYSDATE where DSNID='<INFODOM>'`

6	Update Successful	-

1.5 Sandbox Resave Utility

A utility is provided to regenerate the CONSTRAINTS.XML as per the changes done as part of Update Constraints utility. The constraint XML is required for the sandbox data population which will store the foreign key names of all the tables.

The XML files which will be re-generated are:

`ftpshare/<SANDBOXINFODOM>/erwin/scripts/sandbox/CONSTRAINTS.xml`

`ftpshare/<SANDBOXINFODOM>/erwin/scripts/sandbox/<TABLE_NAME>.xml`

1.5.1 Prerequisites

Update Constraints utility should have been run successfully on all the sandbox and production Infodoms.

1.5.2 How to Run the Utility

1. Navigate to `$FIC_HOME/utility/sandboxutil/bin` folder and grant RWX (755) permissions for all executables (.sh files).
2. Execute the utility using the following command:

   `./updatesandbox.sh`
3. Verify logs from `$FIC_HOME/utility/sandboxutil/bin/nohup.out` folder.
4. If the process is successful, verify the following references for new constraint names:

   `ftpshare/<SANDBOXINFODOM>/erwin/scripts/sandbox/CONSTRAINTS.xml`

   `ftpshare/<SANDBOXINFODOM>/erwin/scripts/sandbox/<TABLE_NAME>.xml`
5. In case of failure, refer the utility's log and restore the backups for the file system. Execute the utility for the failed infodoms one by one using the following command:

   `$FIC_HOME/utility/sandboxutil/bin/updatesandbox.sh $INFODOM.`

NOTE: Utility does the backup of `ftpshare/<SANDBOXINFODOM>/erwin/scripts/sandbox` folder as `ftpshare/<SANDBOXINFODOM>/erwin/scripts/sandbox_bkp`, but restore is not done. Restore should be done manually in case of any failure. The backup folder will be created in the app ftpshare area. In case of any failure, the backup has to be replaced in the db ftpshare area also.

For more queries, contact Oracle Support Services.

1.6 Update ETLRepository.xml File

1. Shut down all OFSAAI Services. For more information, refer to the *Start/Stop Infrastructure Services* section in *Oracle Financial Services IFRS Release 8.0.0.0.0 Installation Guide* in OHC Documentation Library.
2. Take a backup of the file ETLRepository.xml, present in the location, *$FIC_HOME/ftpshare/etlapphome/*.
3. Remove the following entry from the file ETLRepository.xml file:

```
<DEFINITION ID="T2T_EMBEDDED_OPTIONS_SCH" ISLOOKUP="FALSE"
LOADTYPE="TABLE_LOAD" MEMORYLOAD="FALSE" OWNER_INFODOM="FUSION"
TYPE="EXTRACT">
   <PROPERTIESCREATED>YES</PROPERTIESCREATED>
   <FTPSTATUS>YES</FTPSTATUS>
   <CREATEDBY>APPUSER</CREATEDBY>
   <CREATETIME>2012/10/4 01:05:27 AM</CREATETIME>
   <LASTMODIFIEDBY>APPUSER</LASTMODIFIEDBY>
   <LASTMODIFIEDTIME>2012/10/4 01:05:27 AM</LASTMODIFIEDTIME>
   <MAPPING>
      <INFODOMS>
         <INFODOM CTL_OR_FMT="NO" FTPSTATUS="YES" ID="FUSION">
            <TABLES>
                 <TABLE ID="FSI_D_EMBEDDED_OPTIONS_SCH"/>
             </TABLES>
         </INFODOM>
      </INFODOMS>
   </MAPPING>
</DEFINITION>
```

4. Restart all OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in *Oracle Financial Services IFRS Release 8.0.0.0.0 Installation Guide* in OHC Documentation Library.

1.7 Additional Configurations

1.7.1 Configurations for Big Data Processing

You can refer to the *Configurations for Big Data Processing* section in the OFS Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide v8.0.2.0.0.

1.7.2 Configurations for Enterprise Modeling

You can refer to the Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide for information on configuration for Enterprise Modeling.

1.7.3 Configuration for Tomcat

You can refer to the Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide for information on configuration for Tomcat.

1.7.4 Configurations for Inline Processing Engine (IPE)

You can refer to the Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide for information on configuration for IPE.

1.7.5 Configurations for Process Modeling Framework

You can refer to the Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide for information on configuration for the Process Modeling Framework.

1.7.6 Configurations for Forms Manager

You can refer to the Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide for information on configuration for Forms Manager.

1.7.7 Configurations to Deploy the LLFPBI Application

The following are the steps to configure the LLFPBI Analytics:

Before you begin this process, ensure that Oracle Business Intelligence (Version 11.1.1.7.1) installation is completed and is available.

1. Set the <Oracle BI Instance Home> directory.

   For example: **/u01/OBIEE11G/instances/instance1**

2. Start WebLogic AdminServer.

   a. Set the <BI Domain Home> directory.

i. For Example:
/u01/OBIEE11G/user_projects/domains/bifoundation_domain

b. Navigate to <*BI Domain Home >/bin* and execute the following command:

nohup ./startWebLogic.sh &

NOTE: Bringing up this service may take a few minutes depending on your environment. Check the logs using the command:
tail –f nohup.out

3. Start Node Manager.

   a. Set the < WebLogic Server Home > directory>.

      For example: /u01/OBIEE11G/wlserver_10.3

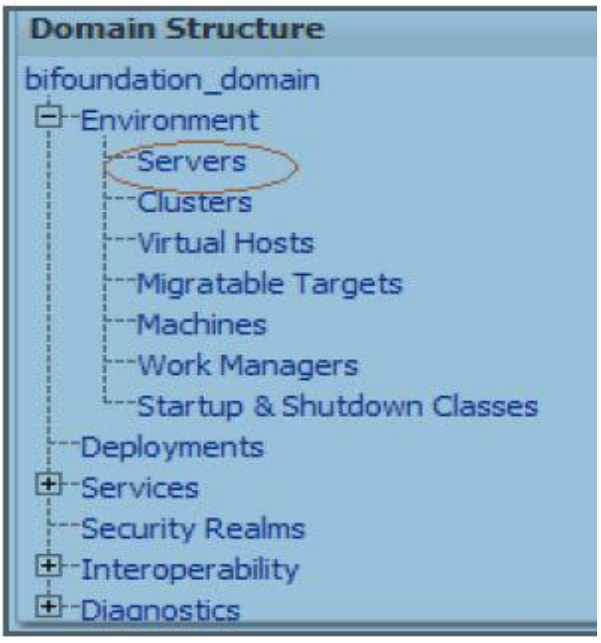
   b. Navigate to <*WebLogic Server Home>/server/bin* and execute the following command:

      nohup ./startNodeManager.sh &

4. Start WebLogic Managed Server (bi_server1).

   a. Login onto *http:///localhost:7001/console* using your Administrator credentials created during platform install (Replace the hostname based on your setup).

   b. Under the *Environment* tab, click the **Servers** link.



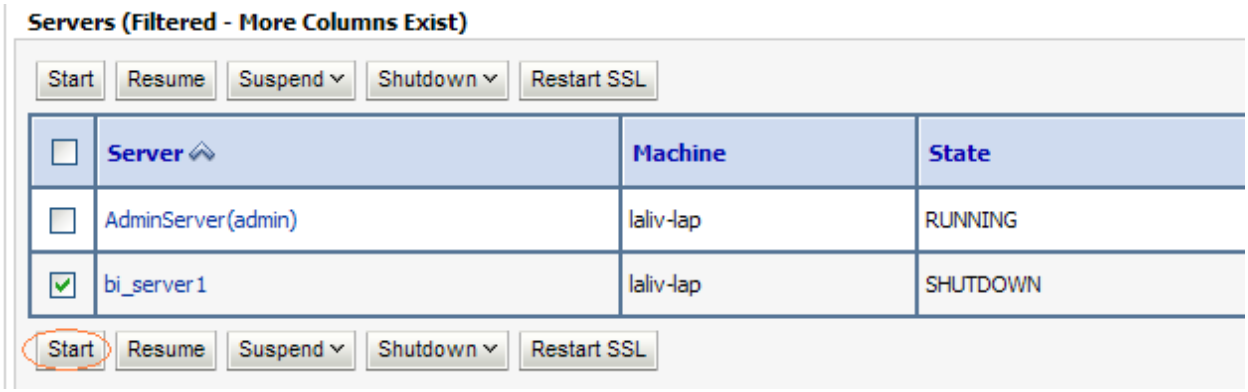
The bi_server1 displays the shutdown state at this point.

Server	Machine	State	Status of Last Action
AdminServer(admin)	laliv-lap	RUNNING	None
bi_server1	laliv-lap	SHUTDOWN	TASK COMPLETED

c. Click the *Control* tab.

d. Select the bi_server1 line by clicking on the left tick box.

e. Click the Start button at the top of the list and confirm starting this service.



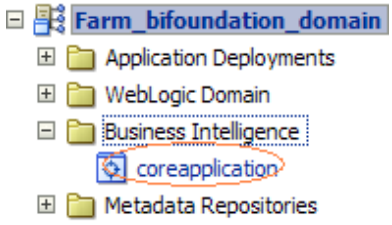
f. The state will update to the "RUNNING" mode after a few minutes.

5. Start OBIEE services and login

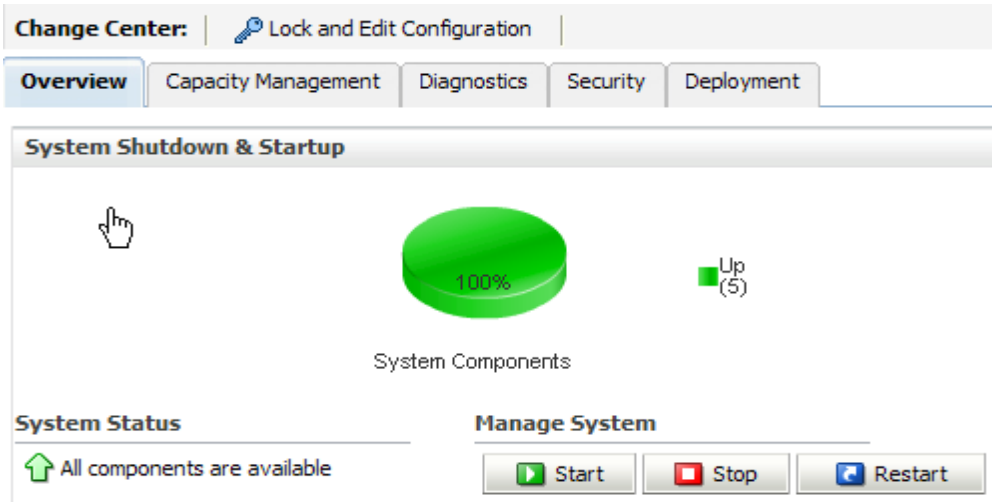
a. Starting services From EM screen:

i. Log in 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.

ii. Expand the 'Business Intelligence' node on the left and choose **Coreapplication**.



iii. Click the Overview Tab.



iv. Click Restart (or Start) under the **Manage System** section.

v. Click **Yes** on the dialog box to confirm the action. Wait for a message that confirms the successful restart.

b. If the start process using EM is not successful and returning an error about OPMNCTL not up, follow the starting process with OPMNCTL.

i. Open a command prompt, navigate to <Oracle BI Instance Home>/bin.

ii. Execute the command **./opmnctl status**. This displays the status of all the OBIEE core services

iii. Execute the command **./opmnctl startall** or **./opmnctl stopall** depending on your requirement.

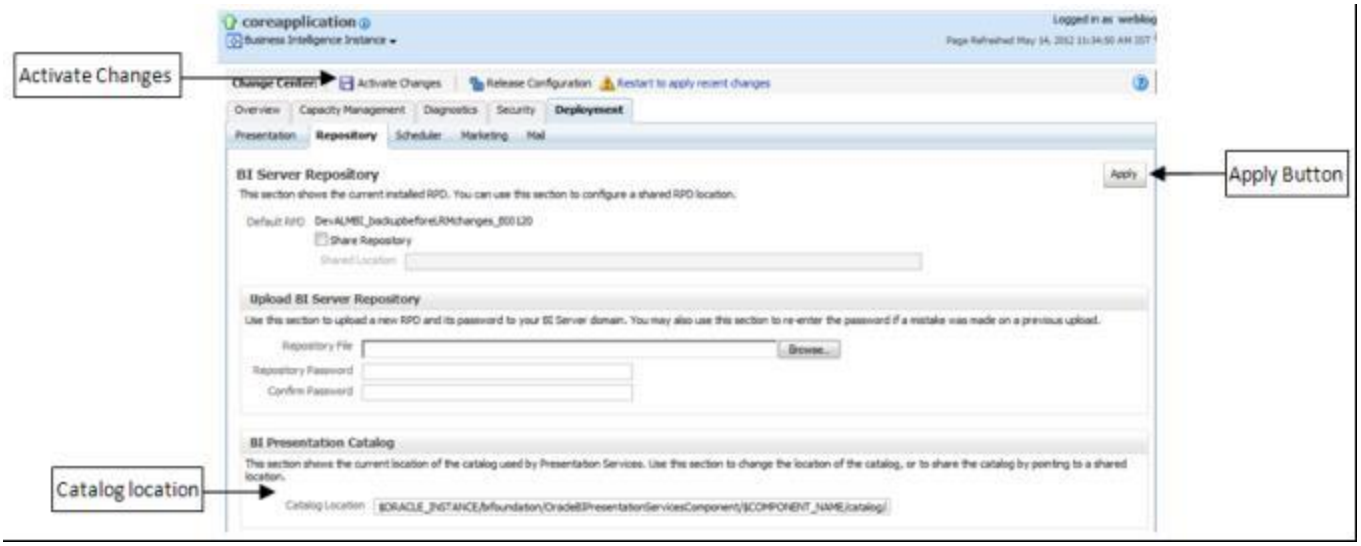
6. Deploy RPD and web catalog file(s).

a. Navigate to folder *$FIC_HOME/LLFP_DASHBOARDS/repository/* which contains **LLFPBI.rpd** file and *$FIC_HOME/LLFP_DASHBOARDS/catalog/* which contains **LLFPBI.catalog** file.

i. Login to OBIEE – Enterprise Manager URL (http://<ip address>:<port>/em).

ii. Click on **core application** from the *Business Intelligence* tab on the left-hand side.

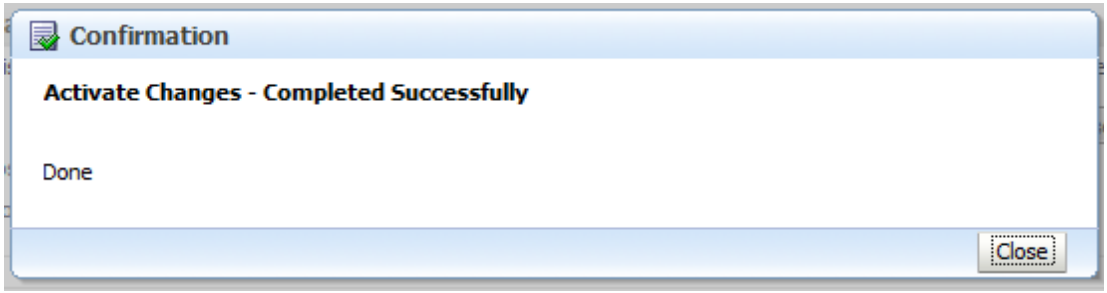
iii. Under **core application**, select the Deployment tab and click the **Lock and Edit Configuration** button located below the title **core application**. The following screen is displayed:



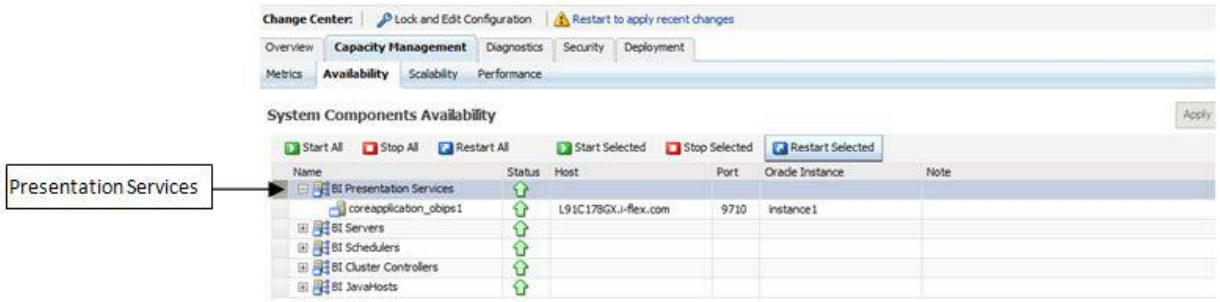
iv. RPD Deployment: Select the **Browse** button available under the *Upload BI Server Repository* section and select **LLFPBI.rpd** file from the local folder. Enter the Repository password 'Administrator1'.

v. Web catalog Deployment:

- Create a new **web catalog** folder for the LLFPBI application through the Enterprise Manager of OBIEE.
- Set the Catalog Location available under 'BI Presentation Catalog' as *$ORACLE_INSTANCE/bifoundation/OracleBIPresentationServicesComponent/$COM PONENT_NAME/catalog/LLFPBI*.
- Click **Apply** and then click **Activate** changes. The following pop up is displayed after successful activation.



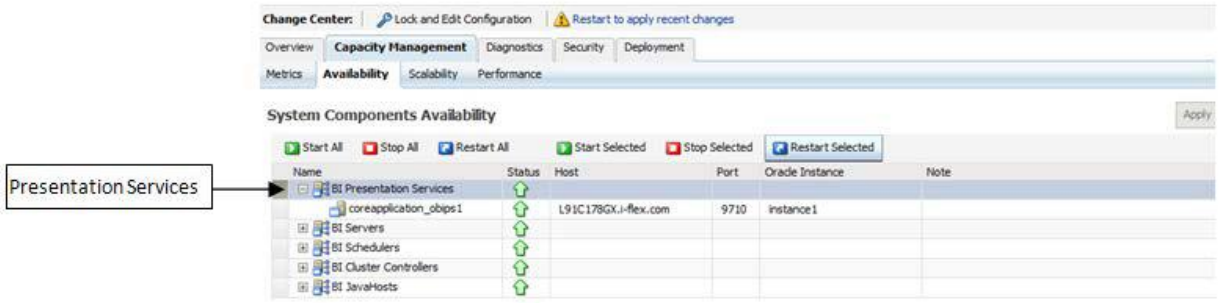
- Click the **Close** button and switch to the *Capacity management* tab.
- Restart the presentation services. Under the System Components Availability, select Presentation Services and click on Restart Selected option.



vi. Once the Presentation Service is restarted, it displays the pop up notifying the successful restart. Click **Close**.

vii. Verify that the new folder structure is created in the system. It can be found under path: *<Oracle BI Instance Home> \bifoundation\OracleBIPresentationServicesComponent\coreapplication_obips1 \catalog\LLFPBI*

viii. This **LLFPBI** folder will be having a root folder which in turn contains three folders named **shared**, **system,** and **users**.



b. Open the Catalog Manager

i. Navigate to File menu and open the catalog online (File->Open catalog) by giving the necessary credentials based on your setup (Type - (online), URL - (http://<ipaddress>:<port>/analytics/saw.dll).

ii. Once the catalog is opened, it displays a folder structure on the left-hand side. Select the shared folder in the LHS tree structure.

iii. Go to the 'File' menu and select 'Unarchive'. It asks for the path for a file.

iv. Browse the path of the archived catalog file saved in your local folder using the **Browse** button in the pop-up. Click **OK**.

v. The catalog is unarchived in a specified location. A pop up for successful operation is displayed. Restart the presentation services once again.

c. Open the analytics OBIEE URL- (http://<ipaddress>:<port>/analytics) and login with credentials based on your setup. Verify the availability of the catalog.

7. Configure tnsnames.ora.
    a. Open **tnsnames.ora** file under the folder - *<Oracle Home>/network/admin*.
    b. Make sure that an entry is made in the **tnsnames.ora** to connect to the atomic schema of the OFSAA application.
    c. Save the **tnsnames.ora** file.
8. Configure the ODBC data source to connect to Oracle BI Server.
    a. Navigate to *Control Panel>Administrative Tools>Data Sources (ODBC)*.
    b. Select the *System DSN* tab and click the **Add b**utton.
    c. Select a driver-specific to (Oracle BI Server 11g) and click the **Finish b**utton.
    d. Enter **Name** and Server details (specify the Host Name or IP Address of the BI Server) and click **Next**.
    e. Enter Oracle BI Server login id and password (Enter User Name and Password created at the time of OBIEE installation). Click **Next**.
    f. Click **Finish**.
9. Modify the connection pool and set the properties.
    a. Open the OBI Administration tool.
    b. Select *Start > Programs > Oracle Business Intelligence > BI Administration*.
    c. Select *File > Open > Online* and select **LLFPBI.rpd** file.
    d. In the *Open* dialog box, select and open **LLFPBI.rpd** file.
    e. Enter the Repository password as '**Administrator1**'.
    f. In the **Physical** layer, double-click the **Connect Pool**. The properties of **Connection Pool LLFP** is displayed.
    g. In the *General* tab, edit / check the following entries:
        i. Call Interface: (OCI 10g/11g).
        ii. Data source name: <tnsnames.ora entry created in the step 8.b connecting to OFSAA atomic schema>.
        iii. User name: <enter atomic db user name>.
        iv. Password: <enter atomic db user password>.
        v. Confirm password and Click **OK** to close the window.
        vi. Similarly, configure the connection pools for 'LLFPBI'.

NOTE: Repeat similar steps from (g) above for connection pool 'Connection Pool MR' under Database 'Market Risk'.

vii. Click **Save** to save the RPD file.

viii. Click **No** for the Global Consistency Message.

ix. Close the RPD file (File / Exit).

10. Login into LLFPBI Application using the URL: http://localhost:9704/analytics.(Replace the port number based on your setup).

Appendix A

Frequently Asked Questions

What checks does the 8.0.3.0.0 CA Release patch perform?

- Environment Check- As part of the environment check, it performs Java validation, Environment Variables validation, OS-specific validation, DB specific validation, and it shuts down all OFSAAI Services (Infrastructure Server, ICC Server, and back-end services).
- Post Install check- As part of the Post-install check, it checks if OFSAAI services can be successfully started.

Which version of ERwin Data Modeler does OFSAAI support?

OFSAAI now supports ERwin version 9.2 and 9.5 generated XML in addition to ERwin 4.1, ERwin 7.1, ERwin 7.3, and ERwin 9.0 formats.

What should I do for viewing the log files in the Debug level for troubleshooting?

By default, the log level is set as INFO. You need to manually change it to Debug to view the log files in the debug level. Based on your requirement, you can change the log level to Warn, Error, or Fatal as well.

1. Navigate to *$FIC_HOME/conf* in the APP layer of your OFSAAI installation.
    - Change the **priority value** to **Debug** in the *RevLog4jConfig.xml* file.

      For example:

      ```
      <root>
        <priority value ="debug" />
        <appender-ref ref="ConsoleAppender1"/>
      </root>
      ```

    - Change the value of **LOGGERLEVEL** in the *DynamicServices.xml* file from **20** to **0**. (**20** is the value for Info and **0** for Debug.)

      NOTE: For multi-tier installation, you need to change the log level to Debug in the *DynamicServices.xml* and *RevLog4jConfig.xml* files, which are present in *$FIC_APP_HOME/conf*, *$FIC_DB_HOME/conf*, and *$FIC_WEB_HOME/conf* as well.
2. Navigate to *$FIC_WEB_HOME/webroot/conf* and change the **priority value** to **Debug** in the *ExportLog4jConfig.xml*, *MDBLogger.xml*, and *PR2Logger.xml* files for viewing log files in Debug level for the modules Archive/Restore, Metadata Browser, and RRF respectively.

3. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying EAR / WAR file, refer to the *Post Installation Configuration* section in *OFS IFRS Pack Installation and Configuration Guide – Release 8.0.0.0.0*, available in OHC Documentation Library.
4. Restart the OFSAAI Services (APP and WEB). For more information, refer to the *Start/Stop Infrastructure Services* section in *OFS IFRS Pack Installation and Configuration Guide – Release 8.0.0.0.0*, available in OHC Documentation Library.

OFS IFRS 8.0.3.0.0 Installation Guide

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