

Oracle Financial Services Data Foundation Application Pack - Java 7 and Java 8

Installation Guide

Version 8.0.4.0.0



Introduction

This document includes the necessary instructions to apply 8.0.4.0.0 Minor Release for Oracle Financial Services Data Foundation (OFSDF) Application Pack and perform the required post install configurations. You can find the latest copy of this document in [OTN](#).

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Preface

This document provides step-by-step instructions to install the Oracle Financial Services Data Foundation (OFSDF) Application Pack 8.0.4.0.0 Minor Release.

This chapter discusses the following topics:

- [Summary](#)
- [Audience](#)
- [Prerequisites for the Audience](#)
- [How this Guide is organized](#)
- [Recommended Environment](#)
- [Related Documents](#)
- [Conventions and Acronyms](#)

Summary

You can find the latest copy of this document in [OTN library](#) which includes all the recent additions/revisions (if any) done till date.

Before you begin the installation, ensure that you have access to the Oracle Support Portal with the required login credentials to quickly notify us of any issues at any stage. You can obtain the login credentials by contacting Oracle Support.

Audience

OFSDF Application Pack Installation Guide is intended for Administrators, Business User, Strategists, and Data Analyst, who are responsible for installing and maintaining the application pack components.

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 Data Foundation pack components
- OFSAA Architecture
- UNIX Commands
- Database Concepts

- Web Server/ Web Application Server

How this Guide is organized

The OFSDF Application Pack Installation Guide includes the following topics:

- [OFSDF Application Pack Release 8.0.4.0.0](#)
- [Appendix A](#)

Recommended Environment

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.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Documents

For more information, refer the OFSDF Application Pack 8.0.4.0.0 documents available in the [OTN](#) documentation library.

- Oracle Financial Services Data Foundation User Guide Release 8.0.4.0.0
- Oracle Financial Services Analytical Applications Infrastructure User Guide ([OTN documentation library](#))
- Oracle Financial Services Analytical Applications Infrastructure Installation Guide

Conventions and Acronyms

Conventions	Description
Actions are indicated in Bold .	
Command or query is indicated in <code>Courier New font</code> .	
AIX	Advanced Interactive eXecutive
OFS AAI	Oracle Financial Services Analytical Applications Infrastructure
OFSDF	Oracle Financial Services Data Foundation
OFS_BFND_PACK	Oracle Financial Services Data Foundation Application Pack

Conventions	Description
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.
GA	General Availability

1 OFS Data Foundation Application Pack Minor Release 8.0.4.0.0

This Minor Release of OFS Data Foundation Application Pack is cumulative and includes all enhancements and bug fixes done since the OFSDF Application Pack v8.0.0.0.0 release.

NOTE: The schema / domain for FSDF are referred to as BFND.

1.1 Pre Installation Requirements

You should have OFSDF Application Pack version 8.0.0.0.0 as the minimum patch set level.

NOTE: You can refer to [Technology Matrix](#), for Hardware and Software Requirements.

- To install this release on Oracle Solaris OS, refer to the following list for version specific information:
 - **Solaris 11** – Upgrade to Oracle Solaris 11.3 with SRU09 or higher. See https://docs.oracle.com/cd/E60778_01/html/E60743/gouaw.html#scrolltoc to upgrade to SRU09 if you have a lower SRU version. Additionally, install the required runtime libraries. For more information, see [Installing Only the Runtime Libraries on Oracle Solaris 11](#).
 - **Solaris 10** – Install the required OS patches. For more information, see [Installing the Required Oracle Solaris 10 Patches](#). Additionally, install the required runtime libraries. For more information, see [Installing Only the Runtime Libraries on Oracle Solaris 10](#).

NOTE: In an OFSAA instance where multiple OFSAA application packs have been installed/ deployed, it is mandatory to upgrade all OFSAA application packs to 8.0.4.0.0 release. You should start the upgrade of OFS BFND pack, only after confirming that all of the application packs in your OFSAA instance are available for upgrade to 8.0.4.0.0 version. For information on availability of the required OFSAA Application Packs, see [2246606.1](#).

- OFS AAI 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.
 - Model upload component follows a new naming convention for PK and FK constraints. The keyword PK/FK is appended with the unique ID of each table followed by a sequence at the end as required. For example, PK on DIM_ACCOUNT would be PK_101, where 101 is the unique ID of DIM_ACCOUNT (maintained in table AAI_TABLE_UID_MAP of Atomic Schema). Similarly, FKs on FCT_COMMON_ACCOUNT_SUMMARY would be

FK_206_01, FK_206_02 and so on, where 206 is the unique ID generated for FCT_COMMOM_ACCOUNT_SUMMARY. So, refrain from using such constraint names in the same schema to avoid duplicity issues.

- 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`.
- 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 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 persistence of the model is outside the purview of the utility. Any similar cases, which involves only logical model upload should be considered and taken care by the user.

For more information about the utility execution and log files information, refer [Oracle Financial Services Advanced Analytical Applications Infrastructure Pack Installation and Configuration Guide](#) for **Update Constraints Utility** section.

- Connect to the database as user with DBA privileges. Execute the following grant statement:

```
GRANT CREATE TYPE TO [<ATOMIC SCHEMA>];
```

NOTE: This grant should be executed for all existing Atomic Schemas.

- Download the one-off patch **25343603** from [My Oracle Support](#) if OFSAA is deployed on Oracle WebLogic Server version 12.2.x. 6.
- Download the consolidated one-off patch **25487272** from [My Oracle Support](#).
- Download the consolidated one-off patch **25777667** from [My Oracle Support](#).
- Download the one-off patch **25858756** from [My Oracle Support](#).
- Download the one-off patch **25866718** from [My Oracle Support](#), if you have OFS CAP 8.0.4.0.0 Application Pack installed in the environment.
- Download the one-off patch **25721882** from [My Oracle Support](#). Upgrade to Struts compatible version (2.3.32) using the steps mentioned in [2254323.1](#).

NOTE: Ignore this prerequisite, if this upgrade has already been done for other associated products. This patch contains critical security vulnerability fix on Apache Struts version. The Apache Struts 2.3.32 jars upgrade is optional for FSDF. If all the applications have provided Apache Struts 2.3.32 upgrade then the Struts 2.3.32 jars upgrade can be done.

1.2 How to Apply This Minor Release?

1.2.1 Downloading OFS Data Foundation Application Pack

Refer to the following instructions to download and extract the release.

1. Login to <https://support.oracle.com/> and search for Bug# **25523810** under the *Patches & Updates* tab.
2. Download the OFSDF Application Pack v8.0.4.0.0 archive file and copy it to your OFSAA server in **Binary** mode.

NOTE: The archive files are different for different 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 Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide](#).

5. Execute the following command:

```
chmod -R 750 $FIC_HOME
```

6. If you have Unzip utility, skip to the next step. Download the Unzip utility (OS specific) **unzip_<os>.Z** 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 8.0.4.0.0 installer.

- Uncompress the unzip installer file using the command:

```
uncompress unzip_<os>.Z
```

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_BFND_8.0.4.0.0_<OperatingSystem>.zip.
```

7. Extract the contents of the 8.0.4.0.0 archive file using the command:

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

NOTE: Rename or remove the existing OFSAA Application Pack folder from the OFSAA server prior to extracting the contents from the release archive (.zip). For example: For this release when extracted from the archive creates a folder with name **OFS_BFND_PACK**. Rename or remove if a folder with the same name exists in the path where the release archive is copied.

NOTE: The above “-a” option is mandatory to unzip the archive file. For example:

```
unzip_aix -a OFS_BFND_8.0.4.0.0_<OperatingSystem>.zip
```

1.2.2 Pre Installation Activities

1.2.2.1 .Profile Settings for Solaris

Set the value for `LD_LIBRARY_PATH` to `$FIC_DB_HOME/lib/libC++11/` in the 8.0.4.0.0 Patch or Full Installer.

1.2.2.2 Model Upload Parameter

The configuration file (`Params.conf`) should be updated before triggering the installation. `Params.conf` file is available in the path `/OFS_BFND_PACK/OFS_BFND/conf`

Following are the input parameters for `Params.conf` file:

Model Upload Process: Input values required are 0/1

- **0** indicates Skip Model upload process
- **1** indicates Trigger Model Upload

If the value is **1**, then next option is to select the option of type of Model upload:

- **0** indicates Released Data Model
- **1** indicates Customized Data Model

If the value is **1**, then provide the inputs for Data Model name and the path of Data Model.

NOTE: If you have selected Released Data Model, model upload will be performed during installation. While upgrading from 8.0 to 8.0.4 or 8.0.1 to 8.0.4 or 8.0.2 to 8.0.4 or 8.0.3 to 8.0.4, in case the model upload fails due to any database issues, run the script file `OFS_BFND_Rollback.sql`, which is available at the path: `/OFS_BFND_PACK/OFS_BFND/Rollback/` manually in atomic schema before retriggering the installer.

1.2.2.3 FSDF – Basel Integration

As part of FSDF 8.0.4 release, FSDF – Basel Integration T2Ts are packaged, which will be deployed to the environment in case of `OFS_CAP_ADQ_PACK` is already installed. As a pre-requisite for this deployment, need to execute a Pre-script in Config schema, which is available at the installer path: `OFS_BFND_PACK/OFS_BFND/PreScripts`. If the pre-scripts are not executed

in the previous releases of FSDF i.e. 8.0.3.0.0 and 8.0.3.1.0, then user needs to execute the pre-scripts before installing FSDF 8.0.4.0.0.

NOTE: This step is valid only if OFS_CAP_ADQ_PACK is already installed in the same infodoms where OFSDF 8.0.4.0.0 will get installed.

1.2.3 Installing OFS Data Foundation Application Pack

1. Give EXECUTE permission to the minor release archive file. Navigate to the path `OFS_BFND_8.0.4.0.0_<OperatingSystem>.zip` and execute the command:

```
chmod 750 OFSAAIUpdate.sh
```

2. Execute **OFSAAIUpdate.sh** file using the following command.

```
./OFSAAIUpdate.sh
```

3. If OFSAA is deployed on Oracle WebLogic Server version 12.2.x, install the one-off patch **25343603**. Refer to the Readme available with the patch for further instructions on installing the patch.

NOTE: Refer to the [Technology Matrix](#) for a list of supported servers for OFSAAI 8.0.4.0.0.

4. Install the consolidated one-off patch **25487272**. Refer to the Readme available with the patch for further instructions on installing the patch.
5. Install the consolidated one-off patch **25777667**. Refer to the Readme available with the patch for further instructions on installing the patch.
6. Install the one-off patch **25858756** to remove duplicate class files from MDR.jar.
7. Install the one-off patch **25866718**. Refer to the Readme available with the patch for further instructions on installing the patch.
8. Install the one-off patch **25721882**. Refer to the Readme available with the patch for further instructions on installing the patch.
9. 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.

In case of errors in the `Update.log` file, identify the failed Infodoms. Then troubleshoot and execute the standalone utility for the failed Infodoms.

Refer [Oracle Financial Services Advanced Analytical Applications Infrastructure Pack Installation and Configuration Guide](#) for **Update Constraints Utility** section.

NOTE: If the infodom/associated sandbox infodom used in the current installation process is failed due to errors in Update Constraints Utility execution, user has to trigger the installation process again after the utility is manually executed successfully for all the failed infodoms..

10. If OFS Enterprise Modeling is licensed and enabled in the OFSAA instance on which this release is being installed, it is mandatory to execute Sandbox Re-save utility after successful execution of Update Constraints utility. For more information, refer [Oracle Financial Services Advanced Analytical Applications Infrastructure Pack Installation and Configuration Guide](#) for **Sandbox Resave Utility** section.
11. Verify if the release is applied successfully by checking the log file generated in the installation folder. Logs can be found in `/OFS_BFND_PACK/logs` and `/OFS_BFND_PACK/OFS_BFND/logs` folder. You can ignore ORA-00001, ORA-00955, ORA-02260, ORA-01031 and ORA-01430 errors in the log file. In case of any other errors, contact Oracle Support.

1.2.4 Post Installation Activities

1.2.4.1 Platform Related Post Installation Activities

1. After successful installation, follow these 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>/<auto generated folder>/jsp_servlet`
 - **Websphere:**
`<Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>`
2. Add umask 0027 in the `.profile` of the UNIX account which manages the WEB server to ensure restricted access permissions.
3. Perform the necessary additional configuration as mentioned in [Additional Configurations](#) section.
4. Download and install the one-off patch **25828416**. Refer to the Readme available with the patch for further instructions on installing the patch.
5. Download and install the one-off patch **25555593**. Refer to the Readme available with the patch for further instructions on installing the patch.

6. 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 Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide](#).
7. After the successful installation of the release, restart all the OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section [Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide](#).

1.2.4.2 OFSDF Related Post Installation Activities

Data Model Change Verification

As part of Data Model changes, it was mandatory not to have data in following Actual tables. Installer had taken a backup of Actual tables and deleted the contents of Actual tables as part of pre-scripts. The same data would have been restored automatically to the Actual tables and dropped backup tables as part of Post-scripts.

NOTE: Ensure the following listed Backup tables are not present in the upgraded environment. If any _803 table exists, load the data from the Backup table to the respective Actual table.

Backup Table Name	Actual Table Name
FSI_PARTY_STD_PARTY_MAP_803	FSI_PARTY_STD_PARTY_MAP
FCT_IFRS_ACCOUNT_SUMMARY_803	FCT_IFRS_ACCOUNT_SUMMARY
FCT_IFRS_STAGE_DETER_803	FCT_IFRS_STAGE_DETERMINATION
FCT_REG_CAP_ACCT_SUMMARY_803	FCT_REG_CAP_ACCOUNT_SUMMARY
FCT_REG_CAP_PLCD_COLL_SUM_803	FCT_REG_CAP_PLCD_COLL_SUMMARY
FCT_REG_CAP_POOL_SUMMARY_803	FCT_REG_CAP_POOL_SUMMARY
FCT_REG_COUNTERPARTY_CVA_803	FCT_REG_COUNTERPARTY_CVA
FCT_REG_CP_CAPITAL_SUMMARY_803	FCT_REG_CP_CAPITAL_SUMMARY
FCT_REG_LE_CAPITAL_SUMMARY_803	FCT_REG_LE_CAPITAL_SUMMARY
FCT_REG_OR_CAPITAL_SUMMARY_803	FCT_REG_OR_CAPITAL_SUMMARY
FCT_REG_RUN_LEGAL_ENT_MAP_803	FCT_REG_RUN_LEGAL_ENTITY_MAP
FCT_LOAN_ACCOUNT_SUMMARY_804	FCT_LOAN_ACCOUNT_SUMMARY
FCT_INSTR_MARKET_PRICES_804	FCT_INSTRUMENT_MARKET_PRICES

STG_ACCOUNT_INCEPTION_RATE_804	STG_ACCOUNT_INCEPTION_RATES
FCT_ACCOUNT_FAIR_VALUE_804_BKP	
DIM_UOM_ATTR_804	DIM_UOM_ATTR
DIM_UOM_HIER_804	DIM_UOM_HIER

Change ICC Ownership

All the seeded Batches in OFSDF Applications Pack will be automatically assigned to SYSADMN user during Installation. If one user who wants to see the Batches in *Batch Maintenance* Menu, He needs to execute the following Queries in Config Schema of the Database.

Syntax:

begin

AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromUser','toUser','infodom');

end;

OR

begin

AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromuser','touser');

end;

Where from User indicates the user who currently owns the batch, to User indicated the user to which the ownership has to be transferred. Infodom is optional parameter, if specified the ownership of batches pertaining to that Infodom will be changed.

Eg.

begin

AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('SYSADMN','FSDFOP','OFSBFNDINFO');

end;

1.3 Additional Configurations

1.3.1 Configurations for Big Data Processing

You can refer 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](#).

1.3.2 Configurations for Enterprise Modeling

You can refer the [Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide](#) for information on configuration for Enterprise Modeling.

1.3.3 Configuration for Tomcat

You can refer the [Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide](#) for information on configuration for Tomcat.

1.3.4 Configurations for Inline Processing Engine (IPE)

You can refer the [Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide](#) for information on configuration for IPE.

1.3.5 Configurations for Process Modeling Framework

You can refer the [Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide](#) for information on configuration for Process Modeling Framework.

1.3.6 Configurations for Forms Manager

You can refer the [Oracle Financial Services Analytical Applications Infrastructure Applications Infrastructure Administration User Guide](#) for information on configuration for Forms Manager.

1.3.7 Update Constraints Utility

You can refer the *Update Constraints Utility* section in the [OFS Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide v8.0.4.0.0](#).

Appendix A

Frequently Asked Questions

What checks does the 8.0.4.0.0 Release patch perform?

- Environment Check- As part of 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 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 9.6 generated XMLs in addition to ERwin 9.5, ERwin 9.2, ERwin 4.1, ERwin 7.1, ERwin 7.3 generated XML files.

What should I do for viewing the log files in 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 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 Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide](#).
4. Restart the OFSAAI Services (APP and WEB). For more information, refer to the *Start/Stop Infrastructure Services* section in [OFS Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide](#).



Oracle Financial Services Data Foundation Application Pack Java 7 and Java 8
8.0.4.0.0 Installation Guide

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