

**Oracle® Financial Services Behavior
Detection Applications Pack**

Installation Guide

Release 8.0.2.0.0

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Contents

- Preface** v
 - Audience..... v
 - How this Guide is Organized v
 - Recommended Environment v
 - Related Documents vi
 - Conventions vi

- 1 OFS BD Applications Pack Minor Release 8.0.2.0.0**
 - Pre-Installation Requirements** 1-1
 - Backup 1-1
 - Applying This Minor Release**..... 1-1
 - Installing OFS BD..... 1-1
 - Post Installation Configurations** 1-4
 - Configuring FSDF..... 1-4
 - Configuring FSDF in Same Infodom..... 1-5
 - Configuring FSDF in Different Infodom (Pack on Pack Installation)..... 1-5
 - Configuring FSDF Ingestion 1-5
 - TC-BC Ingestion..... 1-6
 - Synchronizing FSDF Changes 1-6
 - Loading New/Modified Scenarios 1-7
 - Configuring JAVA HOME and JDBC URL for Scenario Manager..... 1-8
 - Configuring Scenario Manager 1-8
 - Hiding Inbox Tab on the Landing Page 1-9

- A Appendix**
 - Frequently Asked Questions** A-1

List of Tables

| | | |
|-----|-------------------------------------|------|
| 0-1 | Conventions and their meaning | 2-vi |
| 1-1 | PatchConfig.xml | 1-3 |

Preface

This document provides systematic instructions to install the OFS BD Applications Pack 8.0.2.0.0 Minor Release.

This chapter discusses the following topics:

- ? [Audience](#)
- ? [How this Guide is Organized](#)
- ? [Recommended Environment](#)
- ? [Related Documents](#)
- ? [Conventions](#)

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 Analytical Applications Infrastructure pack components
- ? OFSAA Architecture
- ? UNIX Commands
- ? Database Concepts
- ? Web Server/Web Application Server

How this Guide is Organized

The Oracle Financial Services Behavior Detection Pack Installation Guide includes the following topics:

- ? [Chapter 1, OFS BD Applications Pack Minor Release 8.0.2.0.0](#)
- ? [Appendix A](#)

Recommended Environment

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

Oracle Financial Services Behavior Detection Applications Pack related documents are available on [OTN](#).

Conventions

The following table lists the conventions used in this document:

Table 0–1 Conventions and their meaning

| Conventions | Descriptions |
|---|---|
| Screen actions are indicated in Bold | |
| IR | Interim Release |
| ML | Maintenance Level Release |
| OFSAAI | Oracle Financial Services Analytical Applications Infrastructure |
| AIX | Advanced Interactive eXecutive |
| RHEL | Red Hat Enterprise Linux |
| OEL | Oracle Enterprise Linux |
| OS | Operating System |
| TC | Trading Compliance |
| BC | Broker Compliance |
| EAR / WAR | Enterprise Archive / Web Archive |
| J2EE | Java 2 Enterprise Edition |
| OTN | Oracle Technology Network |
| FSDF | Oracle Financial Services Data Foundation |
| Atomic Schema | Database schema where the application data model is uploaded. |
| Configuration Schema | Database schema which contains setup related configurations and metadata. |

OFS BD Applications Pack Minor Release 8.0.2.0.0

This Minor Release of OFS BD Applications Pack is cumulative and includes all enhancements and bug fixes done since the OFS BD Applications Pack v8.0.1.0.0 GA release. For more information, refer to [OFS BD Applications Pack 8.0.2.0.0 Readme](#).

This chapter includes the following topics:

- ? [Pre-Installation Requirements](#)
- ? [Applying This Minor Release](#)
- ? [Post Installation Configurations](#)

Pre-Installation Requirements

You should have OFS BD Applications Pack version 8.0.1.0.0 as the minimum patch set level.

Note:

Refer to [Technology Matrix](#) for Hardware and Software Requirements.

Backup

Take a backup of the following before the application installation process starts. The backup should be kept until the application runs successfully.

- ? OFSAAI Configuration schema
- ? OFSAAI Installation directory
- ? OFSAAI FTPSHARE directory
- ? OFSAAI Atomic Schema

Applying This Minor Release

The following section provides details on how to apply this minor release.

Installing OFS BD

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

1. Login to <https://support.oracle.com/> and search for **22644550** under the *Patches and Updates* tab.

2. Download the OFS BD Applications Pack 8.0.2.0.0 Minor Release archive file and copy it to your OFSAA server in **Binary** mode.

Note:

Rename the existing BD Applications 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_BD_PACK, rename if a folder with the same name exists in the path where the release archive is copied.

Note:

There are different archive files for different operating systems such as AIX, and RHEL/OEL, Solaris SPARC, and Solaris X86.

3. Stop all OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in [OFS BD 8.0.1.0.0 Installation Guide](#).
4. If you have Unzip utility, skip to the next step or download the Unzip utility (OS specific) unzip_<os>.Z from the location <https://updates.oracle.com/unzips/unzips.html> 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 8.0.1.0.0. or 8.0.2.0.0.

- ⌘ Uncompress the unzip installer file using the command:

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

Note:

If 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 utility using the command:

```
chmod 751 unzip_<os>
```

For example, chmod 751 unzip_aix

5. Extract contents of the 8.0.2.0.0 Minor Release archive file using either of the following commands:

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

OR

```
unzip <name of the file to be unzipped>
```

6. Go to /OFS_BD_PACK/OFS_BD/conf/PatchConfig.xml

Update the PatchConfig.xml for the following placeholder tags mentioned in the below table.

Table 1–1 PatchConfig.xml

| Place Holder Name | Details | Mandatory |
|-----------------------------|---|-----------|
| ##OFS_AML_SW_RMIPORT## | This attribute is used by the Scenario Wizard. It should consist of a proper port number, which should not be used by any other application. For example, 7623 or 8204. | Yes |
| ##OFS_KYC_DATA_KYC_TBSP## | This variable is used for KYC data table space. The value to be provided is the table space name. Note: Refer OFSBD 8.0.1.0.0 Installation Kit directory(/OFS_BD_PACK/schema_creator/OFS_BD_SCHEMA_OUTPUT.xml for the table space name. | Yes |
| ##OFS_AML_DATA_MANTS_TBSP## | This variable is used in Mantas data table space. The value to be provided is the table space name. Note: Refer OFSBD 8.0.1.0.0 Installation Kit directory(/OFS_BD_PACK/schema_creator/OFS_BD_SCHEMA_OUTPUT.xml for the table space name. | Yes |
| ##OFS_KYC_IDX_KYC_TBSP## | This variable is used in KYC Index table space. The value to be provided is the table space name. Note: Refer OFSBD 8.0.1.0.0 Installation Kit directory(/OFS_BD_PACK/schema_creator/OFS_BD_SCHEMA_OUTPUT.xml for the table space name. | Yes |
| ##OFS_AML_IDX_MANTS_TBSP## | This variable is used in Mantas index table space. The value to be provided is the table space name. Note: Refer OFSBD 8.0.1.0.0 Installation Kit directory(/OFS_BD_PACK/schema_creator/OFS_BD_SCHEMA_OUTPUT.xml for the table space name. | Yes |
| ##OFS_AML_SAVE_METADATA## | This attribute is used by the installer to decide whether to execute hierarchy Resave. Applicable value is ALL. | Yes |

Note: Do not clean up the OFS_BD_SCHEMA_OUTPUT.xml file post-installation as it would be required in future patch installations and upgrades.

7. Give EXECUTE permission to the Minor Release patch installer script. Navigate to OFS_BD_PACK and execute the following command:

```
chmod 755 OFSAAIUpdate.sh
```

8. Execute the following command to start the installation:

```
./OFSAAIUpdate.sh
```

Verify if the Minor Release is applied successfully by checking the log files generated under OFS_BD_PACK/OFS_BD/logs and OFS_BD_PACK/logs folder.

In case of any errors, contact [Oracle Support](#).

9. After successful installation of the Minor Release, 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>
```

? **WebSphere:**

```
<Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>
```

10. Generate the application EAR/WAR file and redeploy the application on your configured web application server after you upgrade to 8.0.2. Redeploy `admin_tools.war` and `mantaserv.war` after you upgrade to 8.0.2. For more information on generating and deploying the EAR/ WAR file, refer to the *Post Installation* section in [OFS BD 8.0.1.0.0 Installation Guide](#).

Note:

EAR/WAR file are automatically generated. In case the files are not regenerated, manually generate by executing `ant .sh` file.

11. After successful installation of the Minor Release, start all OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in [OFS BD 8.0.1.0.0 Installation Guide](#).
12. Deploy the RPD and Catalog OBIEE files present under `$FIC_HOME/OBIEE` folder. For detailed steps, refer [OFS BD 8.0.1.0.0 Installation Guide](#).

Post Installation Configurations

This section covers following topics:

- ? [Configuring FSDF](#)
- ? [TC-BC Ingestion](#)
- ? [Synchronizing FSDF Changes](#)
- ? [Loading New/Modified Scenarios](#)
- ? [Configuring JAVA HOME and JDBC URL for Scenario Manager](#)
- ? [Configuring Scenario Manager](#)
- ? [Hiding Inbox Tab on the Landing Page](#)

Configuring FSDF

This section covers following topics:

- ? [Configuring FSDF in Same Infodomain](#)
- ? [Configuring FSDF in Different Infodomain \(Pack on Pack Installation\)](#)

Configuring FSDF Ingestion

Configuring FSDF in Same Infodom

If BD and FSDF are in same Infodom, follow these steps:

Run the following SQL files in Atomic schema present in the path <download_dir>/OFS_BD_PACK/OFS_BD.

Note: This is a mandatory step while upgrading from OFS BD 8.0.2.0.0 to OFS BD 8.0.4.0.0.

- ⌘ FSDFAlterTimezone.sql
- ⌘ 8.0.2.0.0_Alter_Table_Script.sql.

Configuring FSDF in Different Infodom (Pack on Pack Installation)

If BD and FSDF are in different Infodom, follow these steps:

Run the following SQL files in Atomic schema present in the path <download_dir>/OFS_BD_PACK/OFS_BD.

Note: This is a mandatory step while upgrading from OFS BD 8.0.2.0.0 to OFS BD 8.0.4.0.0.

- ⌘ FSDFAlterTimezone.sql
 - ⌘ 8.0.2.0.0_Alter_Table_Script.sql
1. Run the following script in BD schema after replacing placeholder ##FSDF_USER## with FSDF User name INGESTUSERSYNONYMFORFSDFSTGSCHEMAOWNER.sql.
 2. Run the following script in FSDF schema after replacing placeholder ##DATA_LOADER## with Data Loader Role FsdFStgSchemaOwnergrant.sql

Note:

For pack on pack installation of 8.0.2.0.0 on 8.0.1.0.0, the following scripts should not be executed after the installation of 8.0.1.0.0:

3. FSDFAlterTimezone Run the following scripts in FSDF schema present in the path <download_dir>/OFS_BD_PACK/OFS_BD.
 - ⌘ .sql
 - ⌘ INGESTUSERSYNONYMFORFSDFSTGSCHEMAOWNER.sql
 - ⌘ FsdFStgSchemaOwnergrant.sql

Configuring FSDF Ingestion

Note:

This is applicable for single and multiple infodom configuration.

Following files from the path ##FIC_HOME##/bdf/config/queries should be removed before attempting ingestion through FSDF:

- ? FrontOfficeTransaction.STG_CASA_TRXN.sql
- ? CurrencyTransaction.STG_CARDS_SETTLEMENT_TXNS.sql

TC-BC Ingestion

Note:

This is applicable for single and multiple infodom configuration.

For TC-BC ingestion, run the SQL 8.0.2.0.0_Alter_Script.sql, under <download_dir>/OFS_BD_PACK/OFS_BD path.

Note: This is a mandatory step while upgrading from OFS BD 8.0.2.0.0 to OFS BD 8.0.4.0.0.

Note:

Unique records should be loaded into the following tables as per the key given below:

- ? Stg_Automated_Quote - (FIC_MIS_DATE, V_AUTO_QUOTE_GROUP_ID, D_AUTO_QUOTE_DATE, D_AUTO_QUOTE_TIME, V_INSTRUMENT_CODE)
- ? Stg_Market_News_Event - (FIC_MIS_DATE, V_INSTRUMENT_CODE, D_NEWS_EVENT_DATE, D_NEWS_EVENT_TIME)

Synchronizing FSDF Changes

Note:

This is applicable for single and multiple infodom configuration.

If there is existing data present in staging tables in 8.0.1.0.0, perform the following steps:

- ? Move the data from V_NATIONALITY to V_NATIONALITY_COUNTRY_CODE in STG_PARTY_MASTER.
- ? Move the data from V_SECONDARY_CITIZENSHIP to V_SEC_CITZN_COUNTRY_CODE in STG_PARTY_MASTER.
- ? Move the data from V_DOMICILE_COUNTRY to V_DOMICILE_COUNTRY_CODE in STG_PARTY_MASTER.
- ? Move the data from V_MKT_CENTER_COUNTRY to V_MKT_CENTER_COUNTRY_CODE in STG_MARKET_CENTER_MASTER

Note:

In case, Oracle 12c database is used and following error is encountered during scenario execution: "ORA-04036: PGA memory used by the instance exceeds PGA_AGGREGATE_LIMIT" then increase the value of PGA_AGGREGATE_LIMIT parameter at instance level.

Loading New/Modified Scenarios

This section explains how to load new/modified scenarios manually.

The following is the list of scenarios:

- ? CR-FrontRunRstrctdLists.114697007.xml
- ? CR-FrontRunRstrctdLists.114697008.xml
- ? CR-radingAheadMaterialMarketEvents.118810005.xml
- ? CR-TradingAheadMaterialMarketEvents.118810006.xml
- ? CST-LargeTrades-dRBPC.117750006.xml
- ? ET-EmpFrontRunning-dRBPC.116000120.xml
- ? ET-PersonalTradesExceedAppvdPreClear.118745391.xml
- ? ET-PersonalTradesWOAppvdPreClear.118745390.xml
- ? FR-FTNCuEnExternal.117350039.xml
- ? FR-FTNCuEnExternal.117350041.xml
- ? FR-HRTransFocalHRE.117350033.xml
- ? FR-HRTransHRCounterParty.117350037.xml
- ? FR-HRTransHRGeography.117350019.xml
- ? FR-RapidMvmtFundsAllActivity.117350012.xml
- ? FR-RapidMvmtFundsAllActivity.117350013.xml
- ? FR-RapidMvmtFundsAllActivity.118745398.xml
- ? IML-OffsettingTrade-dINST.114000052.xml
- ? ML-AnticipateProfileIncome.116000090.xml
- ? ML-CashTransPossibleCTR.116000049.xml
- ? ML-CIBForeignActivity.116000053.xml
- ? ML-CIBHRGActivity.116000087.xml
- ? ML-CIBPreviousAverageActivity.116000083.xml
- ? ML-CIBProductUtilization.116000069.xml
- ? ML-CIBProductUtilization.116000071.xml
- ? ML-FTNClientBanks-dCWS.114000031.xml
- ? ML-FTNCuEnExternal.114000077.xml
- ? ML-FTNCuEnExternal.114000078.xml
- ? ML-HRTransHRGeography.115000049.xml

- ? ML-RapidMvmtFundsAllActivity.116000079.xml
- ? ML-RapidMvmtFundsAllActivity.116000080.xml
- ? ML-RapidMvmtFundsFTN.116000042.xml
- ? ML-RapidMvmtFundsFTN.116000052.xml
- ? ML-RoundAmounts.114590029.xml
- ? ML-StructuringAvoidReportThreshold.116000046.xml
- ? ML-StructuringAvoidReportThreshold.116000058.xml
- ? TC-FrontRunning.118745395.xml
- ? TC-FrontRunning.118745396.xml
- ? TC-FrontRunning.118810007.xml
- ? TC-FrontRunning.118810008.xml

For more information on loading scenarios, refer to the *Loading Scenario Metadata* section in [Administration Guide](#).

Configuring JAVA HOME and JDBC URL for Scenario Manager

To configure JAVA HOME, follow these steps:

1. Open the folder where the Scenario Manager is installed on the desktop and navigate to the path:

```
<INSTALLED_DIRECTORY>\behavior_detection\toolkit\bin
```

2. Set JAVA_HOME as ur JRE path in the kddstart.bat file.

```
For example, set JAVA_HOME="C:\Program Files\Java_7\jre1.7.0_65"
```

To update the JDBC URL,

1. Navigate to the path: <INSTALLED_DIRECTORY>\behavior_detection\toolkit\mantas_cfg
2. Open the file install.cfg
3. Update the JDBC URL if the existing one is incorrect.

Configuring Scenario Manager

1. Open the folder where the Scenario Manager is installed on the desktop and navigate to the path:

```
C:\Oracle_Mantas_Platform\behavior_detection\toolkit\lib
```

Replace the jar file

```
'xml-apis-2.10.0.jar' with the latest file from the path
```

```
/ficweb/webroot/WEB-INF/lib
```

2. Edit the kddtool.bat file in the following location:

```
C:\Oracle_Mantas_Platform_QA\behavior_detection\toolkit\bin\kddtool.bat
```

Replace the line set:

```
;%XML_APIS_JAR=%LIBDIR%\xml-apis.jar;
```

with

```
;$set XML_APIS_JAR=%LIBDIR%\xml-apis-2.10.0.jar;
```

Close and restart the Scenario Manager application

3. Copy `KDDtools.jar` from `##FIC_HOME##` and to be placed at

```
'ScenariomanagerInstalledDirectory\Oracle_Mantas_Platform\behavior_
detection\toolkit\lib\ '
```

Hiding Inbox Tab on the Landing Page

This tab is not used for OFS BD applications. To hide this tab from the Landing Page, execute the following script in the Config Schema:

```
update aai_menu_b t1 set t1.v_access_code='INBOXLINK' where
t1.v_menu_id='OFS_INBOX_MYTASK'
```


Frequently Asked Questions

What checks does the 8.0.2.0.0 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 the Post installs 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 xmls 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 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* section in [OFS Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide - Release 8.0](#).
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 - Release 8.0](#).

Can I install OFSAA 8.0.0.0.0 release Application Pack on an OFSAA instance which is already upgraded to a higher version say 8.0.1.0.0?

Yes. You can install an OFSAA 8.0.0.0.0 release Application Pack on an OFSAA instance which is already upgraded to a higher version. For more details prior to proceeding with the installation, refer table Installer and Installation Prerequisites (section Installer and Installation Prerequisites >> Category Others >> Sub-Category OFSAA) in the [OFS Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide](#).

How can I re-trigger BD 8.0.2.0.0 if installation fails while uploading data model or prior to that?

Yes, if the datamodel fails, the patch can be retriggered. But if the model upload is successful and patch fails for any other reason. Contact Oracle Support.