Oracle Financial Services Data Integration Application Pack

Installation Guide

Version 8.0.3.0.0

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Introduction

This document includes the necessary instructions to apply 8.0.3.0.0 Minor Release for Oracle Financial Services Data Integration (OFS DI) 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 Integration (OFS DI) Application Pack 8.0.3.0.0 Minor Release.

This chapter discusses the following topics:

- Audience

- How this Guide is organized

- Recommended Environment

- Related Documents

- Conventions Used

Audience

Oracle Financial Services Data Integration (OFS DI) Applications Pack Installation Guide is intended for administrators, and implementation consultants 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 Advanced Analytical Applications Infrastructure pack components

- OFSAA Architecture

- UNIX Commands

- Database Concepts

- Web Server/ Web Application Server

- Oracle Data Integrator

How this Guide is Organized

The Oracle Financial Services Data Integration Application Pack Installation Guide includes the following topics:

- OFS DI Application Pack Release 8.0.3.0.0

- Appendix A

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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.

Related Documents

For more information, refer the Oracle Financial Services Data Integration Application Pack 8.0.3.0.0 documents available in OTN.

- Oracle Financial Services Data Integration Release 8.0.3.0.0 User Guide

- Oracle Financial Services Analytical Applications Infrastructure User Guide (OTN library)

- Oracle Financial Services Analytical Applications Infrastructure Installation Guide (OTN library)

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
OFS DI	Oracle Financial Services Data Integration Application Pack
RHEL	Red Hat Enterprise Linux
IR	Minor Release
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.

1 OFS DI Application Pack Release 8.0.3.0.0

This Minor Release of OFS DI Application Pack is cumulative and includes all enhancements and bug fixes done since the OFS DI Application Pack v8.0.1 General Availability (GA) release. For more information, refer the Oracle Financial Services Data Integration Application Pack Installation Manual Release 8.0.3.0.0 in the OTN.

1.1 Pre Installation Requirements

- You should have OFS DI pack 8.0.1.0.0 GA as the minimum patch set level.

- Ensure un-publishing all connectors before applying this patch.

- If you have HIVE source / DIH Web service for ODI connectivity configured, backup the following files:

  o <FIC_WEB_HOME>/webroot/WEB-INF/props/DIHWSDetails.conf

  o <FIC_WEB_HOME>/webroot/WEB-INF/props/DIHHiveCon.props

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

- OFS AAAI 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.

  o It is advised to take a backup of the atomic schema for each Information Domain in the OFSAA instance before applying the patch.

  o 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`.

  o 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.

  o 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, see Update Constraints Utility section

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- Download the one-off patch **24412483** from My Oracle Support.

- Download the consolidated one-off patch **25777667** from My Oracle Support.

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

1.2 How to Apply This Minor Release?

1.2.1 Installing OFS DI

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

1. Login to https://support.oracle.com/ and search for Bug# **25361418** under the *Patches & Updates* tab.

2. Download the OFS DI Application Pack v8.0.3.0.0 IR 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. Copy the downloaded one-off patch **24412483** to your OFSAA server in Binary mode.

4. Log in to the OFSAA Server.

5. Shut down all the OFS DI Services. For more information, refer to the **Start/Stop Infrastructure Services** section in Oracle Financial Services Data Integration Installation Manual Release 8.0.1 in OTN documentation library.

6. Execute the following command:

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

7. If you have Unzip utility, skip to the next step. 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 8.0.3.0.0IR.

8. 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.

9. Give EXECUTE permission to the file using the command:

   ```
   chmod 751 OFSDI_8.0.3.0.0_<OperatingSystem>.zip.
   ```

10. Extract the contents of the 8.0.3.0.0IR 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_DI_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 OFSDI_8.0.3.0.0_<OperatingSystem>.zip
> ```

11. Give EXECUTE permission to the minor release archive file. Navigate to the path where *OFSDI_8.0.3.0.0_<OperatingSystem>.zip* is extracted and execute the following command:

    ```
    chmod 750 OFSAAIUpdate.sh
    ```

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

    ```
    ./OFSAAIUpdate.sh
    ```

13. Verify if the IR is applied successfully by checking the log file generated in the installation folder. Logs can be found in `/OFS_DI_PACK/logs` and `/OFS_DI_PACK/OFS_DI/logs` folder (If AAI is already upgraded to 8.0.3.0.0 prior to this installation as part of other pack installations, there would be no logs under `/OFS_DI_PACK/logs`). 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.

14. Install the consolidated one-off patch **25777667**. Refer to the Readme available with the patch for further instructions on installing the patch.

15. For more information on securing your OFSAA Infrastructure, refer to the Security Guide in OTN Library.

16. Add umask 0027 in the `.profile` of the UNIX account which manages the WEB server to ensure restricted access permissions.

17. After the successful installation of the IR, restart all the OFSAAI services. For more information, refer to the *Start/Stop Infrastructure Services* section in Oracle Financial Services Data Integration Installation Manual Release 8.0.1

1.2.2 Post Installation Steps

Following are the post installation steps that needs to be performed:

1. Copy following jars from ODI installation directory into
   `<FIC_HOME>/ficweb/webroot/WEB-INF/lib directory`

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a. Navigate to `<ODI_HOME>/odi/sdk/lib`. Copy all jars from this directory.

b. Navigate to `<ODI_HOME>/oracle_common/modules/oracle.odl`. Copy `ojdl.jar`

c. Navigate to `<ODI_HOME>/oracle_common/modules/oracle.idm`. Copy `identitystore.jar` and `identityutils.jar`

d. Navigate to `<ODI_HOME>/oracle_common/modules/oracle.dms`. Copy `dms.jar`

e. Navigate to `<ODI_HOME>/oracle_common/modules/oracle.jps_<ODI_VERSION>`. Copy `jps-api.jar`.

NOTE: In ODI_HOME/modules, if you see folder only with oracle.jps and do not find <ODI_VERSION> then copy the file from oracle.jps folder.

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f. Navigate to `<ODI_HOME>/oracle_common/modules/oracle.toplink_<ODI_VERSION>`. Copy `eclipselink.jar`.

NOTE: In ODI_HOME/modules, if you see folder only with oracle.toplink and do not find <ODI_VERSION> then copy the file from oracle.toplink folder.

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g. Navigate to `<ODI_HOME>/oracle_common/modules`. Copy `javax.validation.jar` (Ignore if ODI version is 12.1.2/12.1.3) `groovy-all-<LATEST_VERSION>.jar`

h. Navigate to `<FIC_HOME>/ficweb/webroot/WEB-INF/lib` and delete `wsclient_extended.jar`

2. Copy the following jar from $FIC_WEB_HOME/webroot/WEB-INF/lib. to ODI installation (<ODI_HOME>/odi/agent/lib)

   `odikmvarstore.jar`

3. If you are using cloudera distribution, then copy Hive/Hadoop JDBC Jars to $FIC_WEB_HOME/webroot/WEB-INF/lib".

4. If you wish to use Web Service for ODI connectivity (recommended) please perform the following steps:

   a. Navigate to `<FIC_WEB_HOME>/webroot/WEB-INF/props` and open **DIHWSDetails.conf**

   b. Update the following properties in the above file.

Property	Value	Remarks
USE_WS	Y/N	Y – If you want ot use web service N – If you don't want to use web service

HTTPS	0/1	1 – If you want to enable https protocol for web service 0 – If you want http protocol for webservice
PORT	Unused port number	Please specify a unused port number in OFSAA installed machine

    c. Navigate to `<FIC_DB_HOME>/bin` and trigger **StartDIHWS.sh** and check **DIHWebService.log** file under `<FIC_DB_HOME>/log` for web service status.

5. Please perform the following steps if the Source is HIVE:

    a. Please navigate to <FIC_WEB_HOME>/webroot/WEB-INF/props and open DIHHiveCon.props file

    b. Please update following properties accordingly.

- WITH_KERBEROS - If you have Kerberos enabled for your HIVE then please specify 'Y'. Otherwise specify 'N'

- CONF_PATH – Please specify the configuration file path and name which contains Kerberos configuration information. Please ignore if Kerberos is disabled i.e. WITH_KERBEROS=N

- KEY_TAB_PATH – Please specify the keytab file which contains the encrypted authentication file for Kerberos enabled HIVE database. Please ignore if Kerberos is disabled i.e. WITH_KERBEROS=N

    c. Save the file

    d. Please login to atomic schema and update the 'driver' column in 'fsi_ds_type_b' to appropriate driver where DSTYPE_CODE='HIVE' and commit

NOTE: Refer to Oracle Data Integrator Documentation for additional configuration for ODI agent if kerberos is enabled for Hadoop datasource.

6. Import the following Knowledge modules and procedure to ODI.

    a. Obtain the following XMLs from $FIC_HOME/KM_Files:

- KM_IKM_MultiFiles_to_Oracle__SQLLDR__Direct_Target.xml

- KM_IKM_MultiFiles_to_Oracle__SQLLDR_with_EBCDIC__Direct_Target.xml

- KM_IKM_Oracle_Insert_Only.xml

- KM_IKM_Oracle_Insert_Only__Ext_Tab_and_DB_.xml

- KM_IKM_Oracle_Multi_Table_Insert__SQLLDR__Direct_Target.xml

- KM_IKM_Oracle_Multi_Table_Insert__SQLLDR_with_EBCDIC__Direct_Target.xml

- KM_IKM_Oracle_Multi_Table_Insert_NonDirect.xml

- KM_IKM_Oracle_Multi_Table_Insert_NonDirect__Ext_Tab_and_DB_.xml

- KM_LKM_MultiFiles_to_Oracle__EXTERNAL_TABLE_.xml

- KM_LKM_MultiFiles_to_Oracle__SQLLDR_.xml

- KM_LKM_MultiFiles_to_Oracle__SQLLDR_with_EBCDIC_.xml

- KM_LKM_MultiFiles_to_Oracle_Multi_Insert__EXTERNAL_TABLE_.xml

- KM_LKM_MultiFiles_to_Oracle_Multi_Insert__SQLLDR_.xml

- KM_LKM_MultiFiles_to_Oracle_Multi_Insert__SQLLDR_with_EBCDIC_.xml

- KM_LKM_Oracle_to_Oracle__DBLINK_No_Source_View__.xml

- KM_LKM_Oracle_to_Oracle_Multi_Insert__DBLINK_No_Source_View__.xml

- KM_LKM_XML_to_Oracle.xml

- KM_LKM_XML_to_Oracle_Multi_Table_Insert.xml

- KM_IKM_Oracle_Extract.xml

- KM_LKM_Oracle_to_Oracle_Datapump__DBLINK_.xml

b. **Procedure:** Edit the TRT_Recon.xml and replace the value `DIH_OFSAATOMIC` with `INFODOM` name and import into ODI.

c. Obtain the following XMLs from standard ODI installation directory.

- KM_LKM_File_to_SQL.xml

- KM_IKM SQL to File Append.xml

- KM_LKM SQL to Oracle.xml

- KM_CKM_Oracle.xml

7. Import following additional Knowledge modules if the source is Hadoop.

a. Get the following XMLs from $FIC_HOME/KM_Files.

- KM_LKM_File_Hive_to_Oracle__OLH_.xml

- KM_LKM_File_Hive_to_Oracle_Multi_Insert__OLH_.xml

b. Get the following XMLs from Hadoop connector enabled ODI installation directory.

- KM_IKM_File_Hive_to_Oracle__OLH_OSCH_.xml

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8. The hdfs directory `/user/oracle/olh2` must exist and must be writable for the ODI (agent) os user. This is required if Hadoop as source is enabled.

9. Enable EZ CONNECT in Oracle Client where ODI Agent is installed and running. DIH uses EZ CONNECT naming method to connect to various Source schemas.

10. Add the below mentioned entries in excludeURLList.cfg file located in the path $FIC_WEB_HOME/webroot/conf/. These entries are required for Data Integration Hub:

   `[ALL]./fsapps/common/fetchErrorMessages.action`

   `[ALL]./fsapps/common/saveFilterExpressionRegister.action`

   `[ALL]./fsapps/common/openExpressionGenRegister.action`

   `[ALL]./fsapps/common/saveDerExpressionRegister.action`

11. After successful installation of IR, perform the these steps:

▪ Clear the application cache. Navigate to the following path depending on the configured web application server and delete the files.

   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>

12. 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 Data Integration Installation Manual Release 8.0.1

13. Login to the application. Select **Application Data Integration Hub**. Navigate to **Administration->Settings** and re-save the ODI details again. Refer the section 4.1.1 in *Oracle Financial Services Data Integration User Guide* available on OTN Documentation Library for details on *Editing the Settings*.

1.3   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 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 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.

> **NOTE:** Ignore the data model key changes enhancement utility if you are upgrading from OFS AAAI 8.0.3.0.0 to 8.0.4.0.0.

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 8.0.4.0.0 patch installation. After successful installation of the OFSAAI 8.0.4.0.0 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 failure.

In case of errors, you should execute the standalone utility to update the constraints for the failed Infodoms.

1.3.1 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`

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- Object registration tables for constraints, `REV_TAB_CONSTRAINTS,` `REV_TAB_REF_CONSTRAINTS,` `REV_TAB_CONSTRAINT_COLUMNS.`

- Oracle Data Dictionary in respective atomic schema for each Infodoms.

4. In case of failure, refer the utility's log and troubleshoot as explained in the following section. For more queries, contact Oracle Support Services.

1.3.2 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
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.

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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 back up 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, user needs to execute the following SQL commands.
		
		Step 1:
		Execute the following statements to drop the back up 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	-

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Appendix A

Frequently Asked Questions

What checks does the 8.0.3.0.0 CA 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 9.2 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.

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.

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

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Post Installation Configuration section in OFS Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide – Release 8.0.

2. 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.

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Oracle Financial Services Software