Oracle Financial Services Data Integration Application Pack

Installation Guide

E71437-01

Version 8.0.2.0.0

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Introduction

This document includes the necessary instructions to apply 8.0.2.0.0 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 8.0.2.0.0 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 8.0.2.0.0
- 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 8.0.2.0.0 documents available in OTN.

- Oracle Financial Services Data Integration Release 8.0.2.0.0 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 8.0.2.0.0

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 8.0.2.0.0 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.

- Download the one-off patch for bug number **25777667** from http://support.oracle.com.

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# **22906120** under the *Patches & Updates* tab.

2. Download the OFS DI Application Pack v8.0.2.0.0 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. Log in to the OFSAA Server.

4. 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 8.0.2 in OTN documentation library.

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** 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 8.0.2.0.0IR.

7. 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.

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

```
chmod 751 OFSDI_8.0.2.0.0_<OperatingSystem>.zip.
```

9. Extract the contents of the 8.0.2.0.0IR 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_8.0.2.0.0_<OperatingSystem>.zip
```

10. Give EXECUTE permission to the minor release archive file. Navigate to the path where *OFSDI_8.0.2.0.0_<OperatingSystem>.zip* is extracted and execute the following command:

```
chmod 750 OFSAAIUpdate.sh
```

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

```
./OFSAAIUpdate.sh
```

12. 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. 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.

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

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

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

16. 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`

   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`.

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

   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".

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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: Please 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.

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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

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. If you are on Patch level 8.0.1.1.0 ML with ODI 12c please remove the OdiInterface.properties file from <USER_HOME> directory of the server where webserver is running.

10. 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>/qaelce/jsp_servlet

   WebSphere:

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

11. 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

12. Login to the application. Select **Application Data Integration Hub**. Navigate to **Administration->Settings** and re-save the ODI details again. Please 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***.**

Appendix A

Frequently Asked Questions

What checks does the 8.0.2.0.0 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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