Oracle Financial Services Data Management Application Pack

Installation Guide

Release 8.0.9.1.0

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Oracle Financial Services Data Management Application Pack

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1 Preface

This document provides step-by-step instructions to install the OFS Data Management Application Pack 8.0.9.1.0 Release.

This chapter discusses the following topics:

- Audience
- Related Documents
- Conventions Used

1.1 Audience

The Oracle Financial Services Data Management Application Pack Installation Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

1.1.1 Prerequisites for the Audience

This document assumes that you have experience in installing Enterprise components and basic knowledge of the following:

- Oracle Financial Services Advanced Analytical Applications Infrastructure pack components
- OFSAA Architecture
- UNIX commands
- Database concepts
- Web server/ Web application server

1.2 Related Documents

For more information, see the Oracle Financial Services Data Management Application Pack 8.0.9.1.0 documents available in the OHC Documentation Library.

- Oracle Financial Services Data Governance for US Regulatory Reporting User Guide Release 8.0.9.0.0
- Oracle Financial Services Analytical Applications Infrastructure 8.0.9.0.0 Documents (OHC Documentation Library)
- Oracle Financial Services Analytical Applications Technology Matrix (<u>OHC Documentation</u> <u>Library</u>)

1.3 Conventions and Acronyms

Conventions	Description			
	Actions are indicated in Bold .			
Command or query	sindicated 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 DM	Oracle Financial Services Data Management Application Pack			
RHEL	Red Hat Enterprise Linux			
IR	Interim 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			

OFS DM Application Pack Release 8.0.9.1.0 2

This release of the OFS DM Application Pack is cumulative and includes all enhancements and bug fixes done since the OFS DM Application Pack v8.0.9.0.0 GA release.

Prerequisites 2.1

The minimum patch set level must be OFS DM Application Pack v8.0.9.0.0.

NOTE

See the OFS Analytical Applications Technology Matrix for the Hardware and Software Requirements.

Installing this Release 2.2

To install this release, follow these steps:

NOTE

In an environment consisting of multiple OFSAA applications, if the October 2020 Critical Patch Update is applied for any one application, it is mandatory to apply the respective October 2020 Critical Patch Updates for all other applications on that OFSAA instance, regardless of the application's version. See the My Oracle Support Doc ID <u>2724021.1</u> for details.

- 1. Log in to My Oracle Support, and search ID 31947207 under the Patches and Updates tab.
- 2. Download the 31947207 GENERIC.zip archive file and copy it to your OFSAA server in Binary mode.
- 3. Shut down all the OFSAAI services. For more information, see the Stopping Infrastructure Services section in the Oracle Financial Services Data Management Pack Installation Guide 8.0.9.0.0.
- 4. Log in to My Oracle Support, search for the 33663417 Mandatory Patch in the Patches & **Updates** Tab and download it.

ATTENTION On the 10th of December 2021, Oracle released Security Alert CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J prior to version 2.15. The application of the 33663417 Mandatory Patch fixes the issue.

For details, see the My Oracle Support Doc ID 2827801.1.

- Login to the OFSAA server with the user credentials that were used to install OFS DM.
- **6.** Extract the contents of the patch archive file using the command:

unzip -a <name of the file to be extracted>

For example: unzip -a 31947207 GENERIC.zip

Note: The above "-a" option is mandatory to unzip the patch.

If you notice an error message "unzip: not found [No such file or directory" before the package is installed, contact your UNIX administrator.

7. Assign RWX (755) permissions to the folder by executing the following command:

```
chmod -R 755 $FIC HOME
```

- 8. If you already have an unzip utility installed, skip to the next step. If you do not have an unzip utility, 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 the directory in which you have copied the v8.0.9.1.0 ML installer.
 - Uncompress the unzip installer file using the following command:

```
uncompress unzip_<os>.z
```

NOTE

If you receive an error message stating: "Uncompress: not found [No such file or directory] and the package is not installed", contact your UNIX administrator.

• Give EXECUTE permission to the file using the following command:

```
chmod 755 OFS DM 80910 <OS>.zip
```

9. Extract the contents of the OFS DM Application Pack v8.0.9.1.0 in the Download Directory installer archive file using the following command:

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

Modify the params.conf file present in the OFS_DM_PACK/OFS_DM/conf directory and update the following parameters using the instructions given in the params.conf file.

In the params.conf file, update the value in the UPLOAD_MODEL parameter to 0.

10. Give EXECUTE permission to the installer file. Navigate to the OFS_DM_PACK/ directory and execute the following command:

```
chmod 755 OFSAAIUpdate.sh
```

11. Execute the following software upgrade command:

```
./OFSAAIUpdate.sh
```

Verify that the maintenance level release is applied successfully by checking the following log files generated in the installation folder:

- OFS DM PACK/logs/OFSAAIUpdate.log for the Infrastructure installation log file.
- OFS_DM_PACK/OFS_DM/logs/OFS_DM_patch_installation.log for the OFS Data Management Application Pack installation log file.
- **12.** You can ignore the following errors in the log files:
 - ORA-00001

If there are other errors, contact My Oracle Support.

- **13.** After successful installation, follow these steps:
 - **a.** Clear the application cache. Navigate to the following directories depending on the configured web application server and delete the files:

- i. Tomcat: <Tomcat Installation Folder>/work/Catalina/localhost/<Application Name>/org/apache/jsp
- ii. Weblogic: <Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>/<auto generated folder>/jsp_servlet
- **14.** Delete the existing EAR or WAR file present in the \$FIC HOME/ficweb directory.

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apply it.

- **15.** Apply the **33663417** Mandatory Patch.

 See the Readme that is packaged with the patch for further instructions on how to install and
- **16.** Generate the application EAR or WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR or WAR file, see the *Post Installation Configuration* section in the <u>Oracle Financial Services Data</u>
- **17.** After the successful installation of the release, restart all OFSAAI services. For more information, see the *Start or Stop Infrastructure Services* section in <u>Oracle Financial Services Data</u>

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2.3 Post Installation Configuration

NOTE

This section applies to Oracle Financial Services Data Governance for US Regulatory Reporting.

On successful installation of the Oracle Financial Services Data Management Application Pack, follow these post-installation configuration steps.

2.3.1 Materialized View Creation Batch

To materialize the view creation batch, follow these steps:

- 1. From the **Financial Services Data Foundation** window navigate to **Operations** and select **Batch Execution**.
- Execute the batch ##INFODOM##_MAT_VIEW_CREATE on sysdate. This batch creates the materialized views needed.

Batch Execution ∨ Batch Mode Mode ● Run ○ Restart ○ Rerur Q Search "O Reset ∨ Search Batch ID Like FSDFINFO_ MAT_VIEW ∨Batch Details 🍱 Schedule Batch Batch ID △ ▼ FSDFINFO_MAT_VIEW_CREATE Creating Mat views for DG using Batch Page 1 of 1 (1-1 of 1 items) K < > >1 Records Per Page 15 v Task Details 🔯 Exclude/Include 🕮 Hold/Release Task Description Creating Mat views for DG using Batch FN_MATVIEWS_CREATION TRANSFORM DATA START 1 of 1 (1-1 of 1 items) K < > > Records Per Page 15 ∨ Information Date Date

Figure 1: Batch Execution

NOTE

After materializing the View Creation Batch, run the following command in Atomic Schema to compile all the invalid objects in the Atomic Schema.

Replace the ##ATOMIC_USER## with the actual Atomic Schema Name.

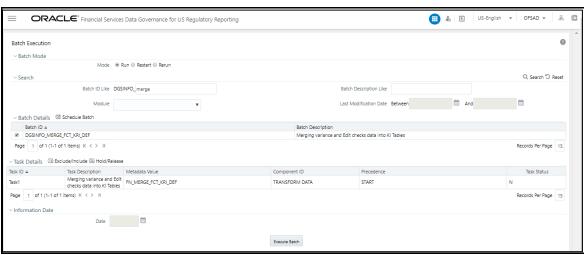
```
begin
DBMS_UTILITY.compile_schema(schema =>
'##ATOMIC_USER##');
   end;
//
```

2.3.2 Merging Key Indicators

To merge the Key Indicators, follow these steps:

- From the Financial Services Data Foundation window navigate to Operations and select Batch Execution.
- **2.** Execute the Batch Name as **MERGE_FCT_KRI_DEF**. This batch is used to merge the variance and edit checks into the Key Indicators.
- 3. Enter the current system date as the MISDATE for this batch.

Figure 2: Batch Execution

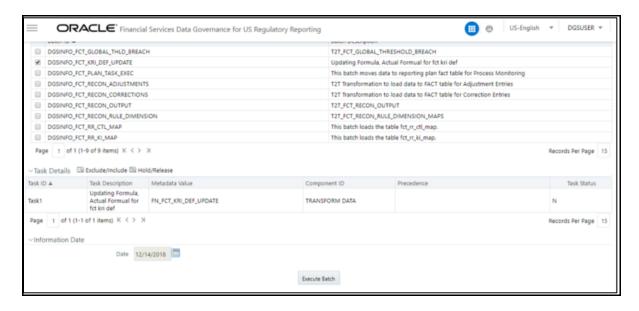


2.3.3 Updating Measures for Key Indicators

To update Measures for Key Indicators, follow these steps:

- 1. From the **Financial Services Data Foundation** window navigate to **Operations** and select **Batch Execution**.
- 2. Run the batch **##INFODOM##_FCT_KRI_DEF_UPDATE** on sysdate. This batch is used to update the measure name, map key, and measure key for the Key Indicators available in the system.
- 3. Enter the current system date as the MISDATE for this batch.

Figure 3: Batch Execution



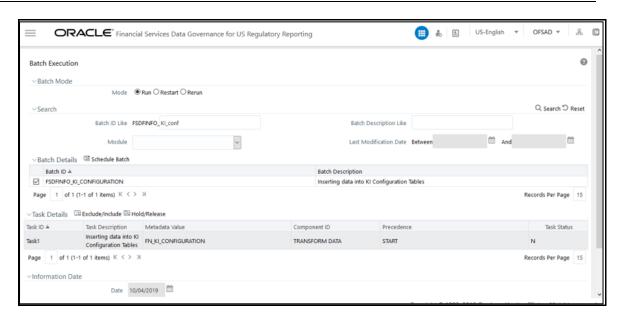
2.3.4 Key Indicator Configuration

From **Financial Services Data Foundation** window navigate to **Operations** and select **Batch Execution**. Run the batch **##INFODOM##_KI_CONFIGURATION**. This batch is used to update the Actual Formula for the key indicator. This batch generates the report, schedule, and cells required for Key Indicator assessment configurations.

From the **Financial Services Data Governance for US Regulatory Reporting** window navigate to **Administration** and select **Key Indicator Assessment Configuration**. Here, you can select and configure the report, schedule, and cell combinations.

For more information on Key Indicator Assessment Configurations, see the *Defining the Key Indicators for Monitoring* section in the <u>OFS DGS US Regulatory Reporting 8.0.9.0.0 User Guide</u>.

Figure 4: Batch Execution



2.3.5 Executing SQL Loader

To execute the SQL Loader for any customer data quality checks defined in the system, follow these steps:

- Navigate to the following path to find the SQL Loader file <context>/ficweb/webroot/sqlLoaderFiles
- 2. Navigate to the following path to find the sqlloader.sh file <context>/ficdb/bin
- 3. Command to execute the sqlloader.sh
 - ./sqlLoader.sh <INFODOM> <COMPLETE PATH OF sqlLoaderFiles folder>

2.3.6 Performance-Related Configuration Details on Account Mapper Batch

 Parallel Hint for query optimization in KI Mapper can be made configurable by setting up N_LOOKUP_VALUE in FSI_DGS_CONFIGURATION against the following column values(V_MODULE_NAME='MAPPER', V_LOOKUP_CODE='PARALLEL_HINT'). The default value set for parallel hint is /*+ PARALLEL(4)*/.

V_MODULE_NAME	V_LOOKUP_CODE	N_LOOKUP_VALUE	V_LOOKUP_CODE_DESC
MAPPER	PARALLEL_HINT	/*+ PARALLEL(4)*/	Parallel hint for query optimization for KI Mapper.

Parallel Hint for Gather Stats optimization in KI Mapper can be made configurable by setting
up N_LOOKUP_VALUE in FSI_DGS_CONFIGURATION against the following column
values(V_MODULE_NAME='MAPPER',
V_LOOKUP_CODE='GATHER_STATS_PARALLEL_HINT'). The default value set for the parallel
hint is 8.

V_MODULE_NAME	V_LOOKUP_CODE	N_LOOKUP_VALUE	V_LOOKUP_CODE_DESC
MAPPER	GATHER_STATS_PARALLEL_HINT	8	Parallel hint for Gather Stats optimization for KI Mapper

 Parallel configs for KI Mapper can be made configurable by setting up N_LOOKUP_VALUE in FSI_DGS_CONFIGURATION against the following column values(V_MODULE_NAME='MAPPER', _LOOKUP_CODE= ENABLE_PARALLEL_CONFIGS). The default value is set as 'N'.

V_MODULE_NAME	V_LOOKUP_CODE	N_LOOKUP_VALUE	V_LOOKUP_CODE_DESC
MAPPER	ENABLE_PARALLEL_CONFIGS	N	Enable Parallel Configurations

 Enable Alter session force parallel for KI Mapper can be made configurable by setting up N_LOOKUP_VALUE in FSI_DGS_CONFIGURATION against the following column values(V_MODULE_NAME='MAPPER', _LOOKUP_CODE= Enable STAR_TRANSFORMATION, Enable Parallel DML, Enable Parallel Query). The default value set as '4' for Enable Parallel DML and Enable Parallel Query, user can set it to any parallels like 4,8,16...

V_MODULE_NAME	V_LOOKUP_CODE	N_LOOKUP_VALUE	V_LOOKUP_CODE_DESC
MAPPER	DGS_STMT_1	ALTER SESSION SET STAR_TRANSFORMA TION_ENABLED=TR UE	Enable STAR_TRANSFORMATIO N
MAPPER	DGS_STMT_2	ALTER SESSION FORCE PARALLEL DML PARALLEL 4	Enable Parallel DML
MAPPER	DGS_STMT_3	ALTER SESSION FORCE PARALLEL QUERY PARALLEL 4	Enable Parallel Query

 Truncate partition for KI Mapper can be made configurable by setting up N_LOOKUP_VALUE in FSI_DGS_CONFIGURATION against the following column values(V_MODULE_NAME='MAPPER', _LOOKUP_CODE= TRUNCATE_PARTITION_FLAG, TRUNCATE_SUBPARTITION_FLAG). The default value is set as 'Y' for TRUNCATE_PARTITION_FLAG and Y for TRUNCATE_SUBPARTITION_FLAG.

V_MODULE_NAME	V_LOOKUP_CODE	N_LOOKUP_VALUE	V_LOOKUP_CODE_DESC
MAPPER	TRUNCATE_PARTITION_F LAG	Υ	Flag to truncate run skey wise partition
MAPPER	TRUNCATE_SUBPARTITIO N_FLAG	Υ	Flag to truncate run skey wise sub-partition

Parallel groups for KI Assessment can be made configurable by setting up N_LOOKUP_VALUE in FSI_DGS_CONFIGURATION against the following column values (V_MODULE_NAME=KI, _LOOKUP_CODE= ASSMT_PARALLEL_GROUP). The default value is set as '14'.

V_MODULE_NAME	V_LOOKUP_CODE	N_LOOKUP_VALUE	V_LOOKUP_CODE_DESC
KI	ASSMT_PARALLEL_GROU P	14	Parallel Group number for KI Assessment

NOTE

All the mapper tables like FSI_KICOND_ACCNT_MAP, FSI_KICOND_REPLINE_MAP,FSI_KICOND_ACCNT_WRITEOFF_MAP, FSI_KICOND_ACCNT_RECOVERY_MAP,FSI_KI_REG_FUND_LEND_EXP_MAP and FSI_KICOND_PARTY_MAP are created out of the box as non-partitioned table with index, if later they are converted into Partitioned table then the associate Index should also be recreated as a Local index else Truncate Reload partition will make the index as unstable.

2.3.7 OBIEE Configuration and Deployments

The following OBIEE configuration files must be updated to change the user's preferred currency:

- 1. Login to the OBIEE Server.
- 2. Edit the /Oracle_Home/bi/bifoundation/web/display/currencies.xml file.
- **3.** Update "symbol="\$" to change the preferred currency as follows:

4. Copy the DGS.catalog and DGS.rpd files from the <FIC_HOME>/DGSBI directory to your local machine and redeploy the DGS.catalog and DGS.rpd files.

2.3.8 Run Chart for Batch Executions

For batch executions, see the <u>DGS US Regulatory Reporting 8.0.9.1.0 Run Chart</u>.

NOTE

When re-running a scenario of the Account Mapper Insert Batch (##INFODOM##_ACCT_MAPPER_INSERT) for a Run Skey, truncate the runskey partition on the following tables based on the availability of data for the run skey.

- fsi_kicond_accnt_map
- fsi_kicond_repline_map
- fsi_kicond_accnt_writeoff_map
- fsi_kicond_accnt_recovery_map

OFSAAI Support	Contact De	tails
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