Oracle Financial Services Data Management Application Pack

Installation Guide

Release 8.0.9.1.0

December 2021

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Financial Services

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Oracle Financial Services Data Management Application Pack

Document Control

Version Number	Revision Date	Change Log
01	October 2020	Created for the OFSDM v8.0.9.1.0 release.

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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](#)
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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 ([OHC Documentation Library](#))

1.3 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 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

2   OFS DM Application Pack Release 8.0.9.1.0

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.

2.1   Prerequisites

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.

2.2   Installing this Release

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 2724021.1 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.

5. 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.

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

See the Readme that is packaged with the patch for further instructions on how to install and apply it.

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 [Oracle Financial Services Data Management Pack Installation Guide 8.0.9.0.0](#).

17. After the successful installation of the release, restart all OFSAAI services. For more information, see the *Start or Stop Infrastructure Services* section in [Oracle Financial Services Data Management Pack Installation Guide 8.0.9.0.0](#).

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**.

2. Execute the batch **##INFODOM##_MAT_VIEW_CREATE** on sysdate. This batch creates the materialized views needed.

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:

1. 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
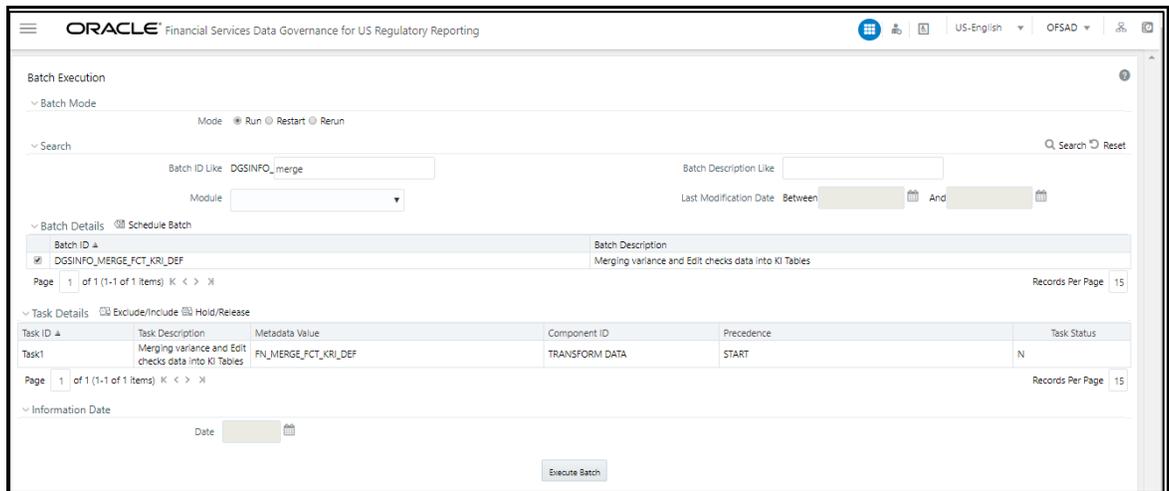
2.3.3   Updating Measures for Key Indicators

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
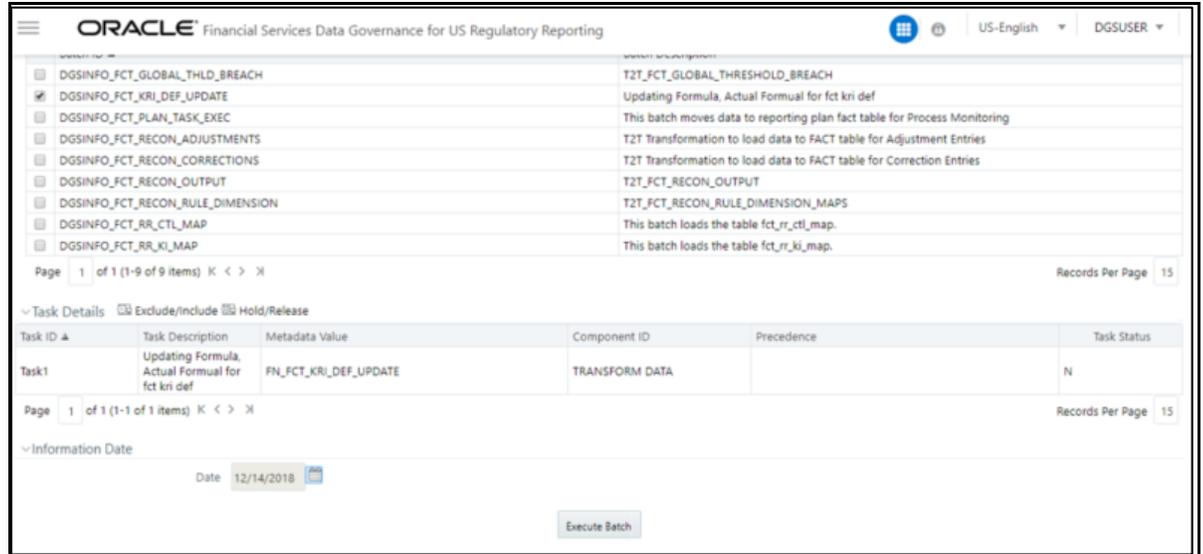
2.3.4 Key Indicator Configuration

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 OFS DGS US Regulatory Reporting 8.0.9.0.0 User Guide.

Figure 4: Batch Execution
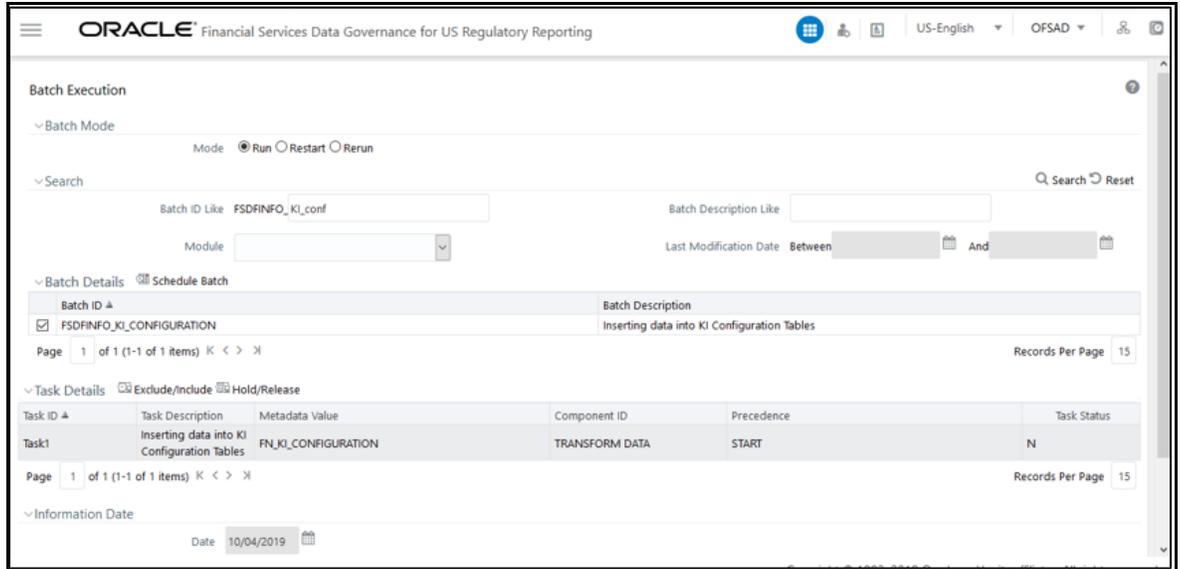
2.3.5 Executing SQL Loader

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

1. 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_TRANSFORMATION_ENABLED=TRUE	Enable STAR_TRANSFORMATION
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_FLAG	Y	Flag to truncate run skey wise partition
MAPPER	TRUNCATE_SUBPARTITION_FLAG	Y	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_GROUP	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:

```
<Currency tag="int:wrhs" type="international" placeholder="true"
symbol="$" format="$#" digits="2"
displayMessage="kmsgCurrencySiebelWarehouse">
    <negative tag="minus" format="-$#" />
</Currency>
```

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 *DGS US Regulatory Reporting 8.0.9.1.0 Run Chart*.

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 Details

Raise an SR in [My Oracle Support (MOS)](#) if you have any queries related to OFSAA applications.

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- Did you find any errors?

- Is the information clearly presented?

- Do you need more information? If so, where?

- Are the examples correct? Do you need more examples?

- What features did you like most about this manual?

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