Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED)

Installation Guide Release 8.0.7.0.0 December 2021



DOCUMENT CONTROL

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3.0	Updated: December 2021	Updated the Post-installation Activities section for Apache Log4j Issue.
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Executive Summary

The document consists of all the installation, Pre and Post configuration procedures which have been structured considering all the 8.0.7.0.0 features. You can find the latest copy of this document in <u>OHC Documentation Library</u> which includes all the recent additions/revisions (if any) done till date.

Before you begin the installation, ensure that you have an access to Oracle Support Portal with the required login credentials to quickly notify us for any specific issues. You can obtain one by contacting <u>Oracle Support Services</u>.

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Preface

Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack helps the banks to comply with various guidelines issued by US Federal Reserve, including BCBS 239 regulations. It provides integrating risk data reporting systems and enhances the accuracy of reporting in banks. OFS Risk Regulatory Reporting (REG REP) Solution helps in achieving the objectives by enabling preset steps based on the generalization of a set of solutions. This is made possible by:

- Providing a centralized data storage for risk data through relevant subject areas of Financial Services Data Foundation (FSDF).
- Interfacing with a third party reporting tool such as Lombard Risk Reporter Portal to build necessary template reports to meet the regulatory expectations.

Data accuracy of risk reporting is ensured by:

• Data Governance Studio (DGS).

The OFS AGILE RP US FED solution enables financial services organizations to manage and execute regulatory reporting in a single integrated environment. It automates end-to-end processes from data capture through submission with industry-leading solutions. It leverages Oracle Financial Services Analytical Application (OFSAA) and Oracle Financial Services Data Foundation (OFSDF) for managing analytical application data. The AgileREPORTER in Regulatory Reporting (REG REP) Solution enables firms to automate the final mile of the reporting process. It provides pre-built integration to Lombard Risk Reporting, eliminating the need for further manual intervention. The solution ensures data integrity allowing banks to focus more time on analyzing and gaining new business insight from their growing stores of data instead of preparing data and reports with the sole objective of meeting submission deadlines.

This document provides step-by-step instructions to install the Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) Release 8.0.7.0.0.

This chapter discusses the following topics:

- <u>Audience</u>
- <u>Scope</u>
- Prerequisites for the Audience
- How this Guide is Organized?
- Documentation Accessibility
- <u>Access to Oracle Support</u>
- Related Documents
- <u>Conventions and Acronyms</u>



Audience

This Manual is meant for Oracle Financial Services Regulatory Reporting for US Federal Reserve System Administrator. It provides step-by-step instructions necessary for installing the OFS AGILE RP US FED application components.

Scope

This manual provides a step-wise instruction to install Oracle Financial Services Regulatory Reporting for US Federal Reserve.

Prerequisites for the Audience

Following are the expected preparations before starting the actual installation:

The document assumes you have experience in installing Enterprise components. Basic knowledge about the Oracle Financial Services Data Foundation Application Pack components, OFSAA Architecture, UNIX commands, Database concepts and Web Server/ Web Application Server is recommended.

How this Guide is Organized?

The Installation Manual is organized into the following chapters.

- **Pre Requisites** section identifies the hardware and base software environment that is required for a successful installation and functioning of the Oracle Financial Services Regulatory Reporting for US Federal Reserve.
- Installing the Application section details the steps to be followed during the installation.
- **Post installation Activities** section details the steps that are required to be performed after a successful installation of Oracle Financial Services Regulatory Reporting for US Federal Reserve.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs for the hearing impaired.



Related Documents

This section identifies additional documents related to Oracle Financial Services Regulatory Reporting for US Federal Reserve. You can access Oracle documentation online from Documentation Library (OHC):

- Oracle Financial Services Regulatory Reporting for US Federal Reserve User Guide
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.7.0.0 Java 7 and Java 8
- Oracle Financial Services AgileREPORTER Installation Manual Release 8.0.7.0.0
- Oracle Financial Services Analytical Applications Infrastructure Installation Guide 8.0.7.0.0 (present in this <u>OHC</u> Documentation Library)

Conventions and Acronyms

Conventions	Description		
References to sections o	r chapters in the manual are displayed in <i>Italics</i> .		
Screen names are display	yed in the following manner: Introduction screen		
Options and buttons are	displayed in Bold.		
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure		
OFS AAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack		
RHEL	Red Hat Enterprise Linux		
Atomic Schema	Database schema where the application data model is uploaded.		
Config Schema	Database schema which contains setup related configurations and metadata.		
OFS AGILE RP US FED	Oracle Financial Services Regulatory Reporting for US Federal Reserve.		



1 Hardware and Software Requirements and Specifications

This section describes the various Operating System, Database, Web Server, and Web Application Server version and other variant details on which this release of the OFS Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) application has qualified.

Refer to the <u>Technology Matrix</u> for Hardware and Software requirements for this release.

2 Preparing for Installation

This chapter provides necessary information to review before installing the OFS AGILE RP US FED Application v8.0.7.0.0. This chapter includes the following topics:

- Obtaining the Software
- <u>Prerequisites for Installation</u>
- Configuration for GUI Mode Installation
- Copying and Extracting the Software

2.1 Obtaining the Software

This release of OFS AGILE RP US FED 8.0.7.0.0 can be downloaded from the Oracle Software Delivery Cloud (<u>https://support.oracle.com/</u>). Log in and search for **28877384** under Patches and Updates.

You need to have a valid Oracle account in order to download the software.

2.2 Prerequisites for Installation

This installer has Fresh install capabilities and following are the prerequisites to install OFS AGILE RP US FED application:

- Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) 8.0.7.0.0 (patch 28226275) plus other prerequisite OFSAAI patches (see Section 1.1 Pre-Installation Requirements of <u>OFS AAI Installation Guide</u>) should be installed and configured in your Machine (<u>OHC</u> Documentation Library).
- Oracle Financial Services Data Foundation (OFSDF) 8.0.7.0.0 (patch 28929704) plus other prerequisite OFSDF patches (see Section 3.1 Installer and Installation Prerequisites of <u>OFSDF</u> <u>Installation Guide</u>) should be installed and configured in your Machine (<u>OHC</u> Documentation Library).
- OFS AgileREPORTER **8.0.7.0.0** Application should be installed and configured in your Machine.



Column	Physical Table	Column Name	Logical	Data Type	Domain	Null	РК	FK	Reference	Reference	Column Comments
Change	Name		Name			Allowed?			Table	Column	
Туре									Name	Name	
Add	FCT_PARTY_	F_PRIMARY_	Primary	CHAR(1)	Flag	YES	NO	NO			This column indicates
Column	IDENTIFICATION	DOCUMENT_	Document								that the party
	_DOC	FLAG	Flag								submitted the
											corresponding
											document as his or her
											primary document.
											There can be more than
											one document getting
											submitted by party. This
											flag identifies the
											primary document. List
											of values are Y if the
											document is primary
											document. N if the
											document is not
											primary document.
Add	FCT_REG_PARTY	N_RUN_SKEY	Run	NUMBER(10)	SurrogateKey	NO	YES	Identifying	DIM_RUN	N_RUN_	This column stores the
Column	_IDENTFCTN_D		Surrogate		_Long					SKEY	surrogate key of the
	OC		Кеу								run.
Add	STG_CUSTOMER	N_JOINT_	Joint	NUMBER(15,11)	Percent_Long	YES	NO	NO			This column stores the
Column	_RELATIONSHIP	LIABILITY_	Liability								joint liability share in
		PERCENT	Percentage								percentage per debtor
											as per the contractual
											agreement.

• Following columns to be added on top of FSDF 8.0.7 data model and sliced model upload should be performed.



OFS Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) Installation Guide, Release 8.0.7.0.0

Add	STG_PARTY_	F_PRIMARY_	Primary	CHAR(1)	Flag	YES	NO	NO	This column indicates
Column	IDENTIFICATION	DOCUMENT_	Document						that the party
	_DOC	FLAG	Flag						submitted the
									corresponding
									document as his or her
									primary document.
									There can be more than
									one document getting
									submitted by party. This
									flag identifies the
									primary document. List
									of values are Y if the
									document is primary
									document. N if the
									document is not
									primary document.

- Ensure that you have executed **.profile** before you trigger the installation.
- Make sure FIC Server is up and running before you trigger the installation. For information on restarting the services, Refer Oracle Financial Services Analytical Applications Infrastructure Release 8.0.6.0.0 Installation Guide (OHC Documentation Library) for more information.



2.3 Configuration for GUI Mode Installation

To install OFS AGILE RP US FED in GUI mode, you need to ensure the below software and configurations are available:

- Install and configure any PC X Server software such as Open Text Exceed (formerly Hummingbird Exceed) on the user desktop system from which the installation is triggered.
 - Configure DISPLAY variable. Ensure to set the DISPLAY variable on the system on which the OFSAA is installed, to point to the user desktop system where the PC X Server software has been installed.

Syntax:

export DISPLAY=hostname:n.n1

where, hostname is the IP Address/ Host Name of the user desktop system and n is the sequence number (usually 0).

For example, 10.11.12.13:0.0 or myhostname:0.0

2.4 Copying and Extracting the Software

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFS AGILE RP US FED application components are installed.

NOTE: You must be logged in to the UNIX operating system as a non-root user.

- Download the unzip utility (OS specific) unzip_<os>. Z, and copy it in Binary mode to any directory and include the directory in your PATH variable. If you already have the unzip utility to extract the contents of the downloaded archive, skip to the next step.
- 2. 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.

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

chmod 751 unzip_<os>

For example, chmod 751 unzip_sparc

 Extract the contents of the OFS AGILE RP US FED 8.0.7.0.0 in the Download Directory installer archive file using the following command:

unzip OFS_AGILE_RP_USFED_8.0.7.0.0_GENERIC.zip

NOTE: DO NOT rename the Application installer folder name on extraction from the archive.

5. Give below permission to the installer folder. Navigate to the Download Directory and execute the command:

chmod -R 755 OFS_AGILE_RP_USFED

3 Oracle Financial Services Regulatory Reporting for US Federal Reserve

The OFS AGILE RP US FED installer can be installed in both GUI and silent mode.

For executing the installer in silent mode, refer to the section <u>Silent Mode Installation</u>.

3.1 GUI Mode Installation

For running in GUI mode:

- 1) Log in to the system as **non-root user**
- 2) Execute the user .profile
- 3) Navigate to installer location OFS AGILE RP USFED/bin
- 4) Run the installer in GUI Mode by executing the command:

./Setup.sh GUI

The GUI setup command launches the installer splash screen.



Installation Splash Screen



The following screenshots and procedure explain the GUI installation steps.

1. The **Introduction** screen displays the prerequisites for installation. Ensure that the prerequisites are satisfied before you proceed.



Introduction Screen

2. Choose the **Log Mode** for this installer. If you select, **Debug**, the Passwords are printed in the log file.







3. In the **Pre-Setup Information** screen, specify the existing infodom name to be used for the application installation and click **Next**.



Pre-Setup Information – Infodom Type Screen

4. In the Pre-Setup Information screen, select New ETL Source and click Next.



Pre-Setup Information – ETL Application Selection Screen



5. In the Pre-Setup Information screen, enter the ETL Source Details and click Next.

	Pre-Setup Information
ETL Source	Details
Name	PROCESSING
Description	PROCESSING
1	Previous Next
	ETL Source Name Description

Pre-Setup Information – ETL Application Details Screen

6. In the **Pre-Setup Information** screen, enter the **OFSAAI User ID** and click **Next**.



Default Value is: SYSADMN

Pre-Setup Information – OFSAAI User ID Screen

7. The **Pre-Install Configuration** (**Please Wait**) screen is displayed.



Pre-Install Configuration – Please Wait Screen

8. Review the settings in the **Pre-Installation Summary** screen and click **Install**.



Pre-Installation Summary Screen

9. The following message is displayed. Select **Yes** to begin the installation process.



10. The Installing SolutionSetup screen is displayed.



Installing SolutionSetup Screen



11. The Install Complete screen is displayed.

	Install Complete
 Introduction Pre-Install Configuration Pre-Install Summary Installing Install Complete 	Installation is complete. Your installation log has been written to /scratch/ofsaaapp1/kit/807/OFS_AGILE_RP_USFED/logs/OFS_AGILE_RP_USFED_Installati on.log
ORACLE FINANCIAL SERVICES	
InstallAnywhere	
Cancel <u>H</u> elp	Previous Done

Install Complete Screen

- 12. Refer to the log file created in the path **/OFS_AGILE_RP_USFED**/logs of installer directory for any error messages.
- 13. Click **Done** to complete the installation.

3.2 Silent Mode Installation

Silent installation is achieved via a properties file (Silent.props) that must be updated with proper values, before attempting to install using the silent mode. Follow the below steps to install the product in Silent Mode:

- 1) Navigate to installer directory OFS_AGILE_RP_USFED/conf containing the template file Silent.template.
- 2) Create a copy of this file and rename the copy as **Silent.props**.
- 3) Edit the **Silent.props** file and specify the parameters as per the requirements.

The following table lists all the properties that must be specified.

Property Name	Description of Property	Permissible Values	Comments
LOG_MODE	Mode for logging	0 = Debug 1= General	Optional; Default : 0
INFODOM_NAME	Specify name of Information Domain (Infodom) into which you wish to install.	For example: FSDFINF188	MANDATORY. Specify Infodom Name Value where FSDF Application is got installed
APPFTP_LOG_PATH	Specify the Infodom App Maintenance log path	For example: /scratch/ofsaebas/ftpshare/FSDFINF188/logs	MANDATORY. Path value should be same as the path which was given during FSDF installation
DBFTP_LOG_PATH	Specify the Infodom DB Maintenance log path	For example: /scratch/ofsaebas/ftpshare/FSDFINF188/logs	MANDATORY. Path value should be same as the path which was given during FSDF installation
SEGMENT_1_CODE	Specify the US Federal Reserve Segment Code	For example: USFEDSEG	MANDATORY



Property Name	Description of Property	Permissible Values	Comments
ETL_APPSRC_TYPE	Please specify if you want create new ETL App/Src pair or use an existing one.	0 = If you want to create a new ETL app/src pair 1 = If you want to use an existing pair	MANDATORY. Default is 0.
ETL_SRC_1_NAME	Specify the ETL Source Name where ETL Area Definitions will be deployed	For example: FEDPROC	MANDATORY
ETL_SRC_1_DESC	Please give description for the ETL Source	For example: USFED	MANDATORY WHEN ETL_APPSRC_TYPE = 0

- 4) Log in to the system as **non-root** user
- 5) Execute the user .profile
- 6) Navigate to installer location OFS AGILE RP USFED/bin
- 7) Run the installer in SILENT Mode with the following command:

./Setup.sh SILENT

Refer to the console log (or the **preinstall.log** file) for any error messages.



4 **Post Installation Activities**

After the installation is complete, perform the following activities:

• Apply the OFS AAI 33663417 mandatory patch.

ATTENTION	On the 10th of December 2021, Oracle released Security Al CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J before version 2.15. The application of the 33663417 Mandatory Patch fixes the issue				
	For details, see the My Oracle Support Doc ID <u>2827801.1</u> .				
	Ensure that you reapply the 33663417 Mandatory Patch whenever you install or upgrade the application or apply an incremental patch.				

- Refer to the log file in the path **/OFS_AGILE_RP_USFED/logs** to ensure that there are no errors reported.
- Execute the following script in the CONFIG SCHEMA after replacing the placeholders: <u>Drilldown_UsedTables.sql</u>
- Execute the following scripts in the CONFIG SCHEMA after replacing the placeholders for getting the dataflow of the above manual columns: <u>DM_T2T_FDB_STG_TD_CONTRACTS.sql</u>

DM T2T FCT ACCT CUST RELATIONSHIP.sql

DM_T2T_FCT_PARTY_IDENTIFCTN_DOC.sql

- **NOTE:** As and when another application patch (containing these three T2Ts) version lower than OFSDF 8.0.7.1.0 is applied, the three T2T changes can get overwritten. Therefore, the mappings must be executed each and every time.
 - Execute the following scripts in the ATOMIC SCHEMA for Drilldown: Drilldown_Atomic.sql
 - Generate the application EAR/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR/ WAR file, see the *Post Installation Configurations* section in <u>OFS AAAI 8.0.2.0.0 Installation and Configuration</u> <u>Guide</u>.
 - Restart all the OFSAAI Servers. See <u>OFS AAAI 8.0.2.0.0 Installation and Configuration Guide</u> in <u>OHC</u> Documentation Library for more information.

Oracle Financial Services Software



- Execute **##INFODOM##_SYNC_ADJUSTMENT_CELLS** batch for creating adjustment entries.
- Execute all the batches to Re-save the Derived Entities.
- Perform the additional configurations if required as mentioned under the Additional Configurations section in <u>OFS AAAI Release 8.0.5.0.0 Installation Guide</u>.

The Oracle Financial Services Regulatory Reporting for US Federal Reserve is now ready for use. If you encounter any problems during set up, contact OFSAA Support at <u>Oracle Support Services</u>.



5 List of Migration Activities (Only for Previous RUN Executions)

List of New Attributes used in Existing Reports

OFS AGILE REP US FED 8.0.7.0.0 contains new data model attributes which are getting used in existing report. The following are the list of new tables/columns getting used in existing reports:

New Tables

FCT_REG_CREDIT_LINE_DETAILS

New Columns

Table Name	Column Name
FCT_REG_ACCOUNT_SUMMARY	N_GL_ACCOUNT_SKEY
FCT_REG_ACCOUNT_SUMMARY	N_GL_TYPE_SKEY
FCT_REG_ACCOUNT_SUMMARY	N_REG_BRANCH_ACCT_COUNTRY_SKEY

Hence, it is recommended that the following scripts must be executed in the ATOMIC SCHEMA for uptaking those changes in previously performed RUN executions.

- Execute the following scripts in the ATOMIC SCHEMA to migrate new columns (one time activity):
 - o <u>NEW_TABLE.sql</u>
 - o <u>NEW_COLUMNS.sql</u>

Standard Party Type v/s Standard Issuer Type

Up to OFSDF version 8.0.5.0.0, there was only one column for storing Standard Party Type irrespective of the role the Party holds. In OFSDF version 8.0.6.0.0, there were multiple columns added for Standard Party Type, such as Standard Issuer Type, Standard Guarantor Type, and so on.

If the customer is not ready to update this change, it is preferable to include the PMUS_MIGRATION_RULES_PROCESS process in the US Regulatory Reporting Run just before the current Rules Process (PRUS_COMMON_RULES_PROCESS). This migration process will take care of data movement from Standard Party Type to Standard Issuer Type.



Conversion of Tables into Views

The following two tables are converted as Views with effect from 8.0.7.0.0 for all Regulatory Reporting applications.

- 1. FSI_M_CELL_DEFN
- 2. FSI_M_CELL_DIM_VAL
- **NOTE:** After we upgrade any Regulatory Reporting application to 8.0.7.0.0, the subsequent lower version patches (for example: 8.0.5.1.5, 8.0.6.1.2, and so on) of other Regulatory Reporting applications can result in the following error during installation, which can be ignored completely as the View will take care of the contents expected by the application: **"Error:ORA-01732: data manipulation operation not legal on this view**".

5.1 Post US FED Run Execution

Perform the following instructions after US FED Run Execution:

- 1. For prior date reporting, please see the <u>Prior Date Reporting</u> document.
- Execute <<INFODOM>>_REG_RUNEXE_RESAVE batch to populate RUNEXESUMM table. Lombard AgileREPORTER would display additional filters of Run Execution ID and Run Status during report retrieval based on RUNEXESUMM table.
 - a. Run Execution ID is Run Execution Identifier concatenated with Run Description.
 - b. Run Status shows the status of US FED Run Execution.
 - c. Define the entities as SOLO or CONSOLIDATED in Lombard AgileREPORTER before retrieving returns.
- 3. Execute all the REFRESH batches to refresh the Derived Entities.





6 Template Package and Config Package Deployment

This section describes the order to deploy the template package and config package after saving the derived entities:

- To deploy the product configuration on AgileREPORTER using the package OFS_RP_TEMPLATE_USFED_80700.zip bundled inside the Template_Package directory of the installer:
 - a. Navigate to the **/Template_Package** directory under the installer.
 - b. Unzip the files with the following command:

```
unzip OFS_RP_TEMPLATE_USFED_80700.zip
```

The **ARforFED_v1.15.1.3.1rm** file is extracted with the above command.

- c. Navigate to the path where AgileREPORTER is installed and then go to the **/bin** directory.
- d. Add a new configuration with the following command:

./config.sh -p -a <Template_Package Full Path>/<.zip file>
For example:

```
./config.sh -p -a <Template_Package Full Path>/
ARforFED_v1.15.1.3.1rm
```

- To deploy the product configuration on AgileREPORTER using the package
 OFSAA_REG_REP_USFED_80700.zip bundled inside Config_Package folder of installer:
 - a. Navigate to the path where AgileREPORTER is installed and then go **/bin** directory under the installed location
 - b. Add a new configuration with the following command:

./config.sh -a <Config_Package Full Path>
For example:

./config.sh -a /scratch/kit/807/OFS_AGILE_RP_USFED/ Config_Package/OFSAA_REG_REP_USFED_80700.zip

3. Update the Alias with the following command:

```
./config.sh -ea OFSAA_REG_REP_USFED_80700 -iv 8.0.7.0.0 -alias
"OFSAA FED DATA SOURCE" -aif
/scratch/agile/bin/aliasinfo.properties
```

If you encounter any problems during deployment, contact OFSAA Support at Oracle Support.

Oracle Financial Services Software



7 Licensing Information

For details on the third party software tool used, see OFSAA Licensing Information User Manual Release 8.0.7.0.0 available in the OHC Documentation Library.





Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) 8.0.7.0.0 Installation Guide

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