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Financial Services

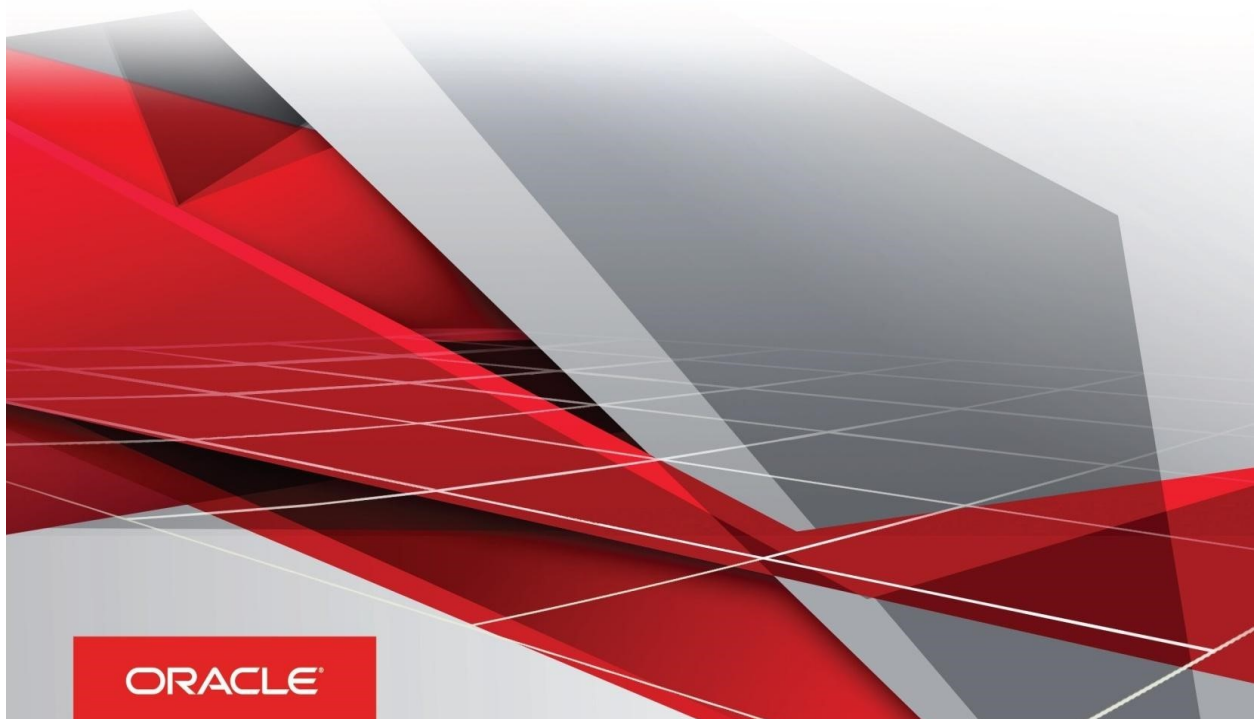
# Regulatory Reporting Solution for US Federal Reserve – Lombard Risk Integration Pack

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Release **8.0.6.0.0**

*Installation Guide*

*December 2021*



## Document Versioning

Version	Date	Change Reference
03	December 23, 2021	Updated: Post Installation Steps section for Apache Log4j Issue.
02	July 10, 2018	Updated: Final version published
01	June 07, 2018	Created: Draft published

### Executive Summary

This document includes the necessary instructions to apply 8.0.6.0.0 maintenance level release for Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack and perform the required post install configurations. You can find the latest copy of this document in [OHC](#) Documentation Library.

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 [My Oracle Support](#).

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## Preface

Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS\_REG\_REP\_USFED) enables the customers to enable the banks to comply with BCBS 239 regulations. It integrates risk data reporting systems and enhances the accuracy of reporting in banks. OFS Risk Regulatory Solution (RRS) 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 Regulatory Reporting tool – Lombard AgileREPORTER to build necessary template reports to meet the regulatory expectations.
- Managing accuracy of risk reporting through Data Governance Studio (DGS).

This document provides step-by-step instructions to install the Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack (OFS\_REG\_REP\_USFED) Release 8.0.6.0.0.

This chapter discusses the following topics:

- [Audience](#)
- [Scope](#)
- [Prerequisites for the Audience](#)
- [How this Guide is Organized?](#)
- [Documentation Accessibility](#)
- [Access to Oracle Support](#)
- [Recommended Environment](#)
- [Related Documents](#)
- [Conventions and Acronyms](#)

### Audience

This Manual is meant for Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack System Administrator. It provides step-by-step instructions necessary for installing the OFS\_REG\_REP\_USFED application components.

### Scope

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

## Prerequisites for the Audience

Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack (OFS\_REG\_REP\_USFED) Installation Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

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 – Lombard Risk Integration Pack.
- **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 – Lombard Risk Integration Pack.

## 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

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## Related Documents

This section identifies additional documents related to Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack. You can access Oracle documentation online from Documentation Library ([OHC](#)):

- Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack User Guide
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.6.0.0 Java 7 and Java 8
- Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide (present in this [OHC](#) Documentation Library)

## Conventions and Acronyms

The following conventions and acronyms are used in this document.

Conventions	Description
	References to sections or chapters in the manual are displayed in <i>Italics</i> . Screen names are displayed in the following manner: <b>Introduction</b> screen Options and buttons are displayed in <b>Bold</b> .
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OFS AAI	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_REG_REP_USFED	Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack

## 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 – Lombard Risk Integration Pack (OFS\_REG\_REP\_USFED) application has qualified.

Refer to the [Technology Matrix](#) for Hardware and Software requirements for this release.

## Preparing for Installation

This chapter provides necessary information to review before installing the OFS\_REG\_REP\_USFED Application v8.0.6.0.0. This chapter includes the following topics:

- [Obtaining the Software](#)
- [Prerequisites for Installation](#)
- [Configuration for GUI Mode Installation](#)
- [Copying and Extracting the Software](#)

### Obtaining the Software

Login to <https://support.oracle.com/> and search for **27322602** under the Patches and Updates tab to download the OFS\_REG\_REP\_USFED v8.0.6.0.0 archive file.

### Prerequisites for Installation

The prerequisite software that must be installed are:

- Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) 8.0.6.0.0 (patch **23036940**) plus other prerequisite OFSAAI patches (see **Section 1.1 Pre-Installation Requirements** of [OFS AAI Installation Guide](#)) should be installed and configured in your Machine ([OHC](#) Documentation Library).
- Oracle Financial Services Data Foundation (OFSDf) 8.0.6.0.0 (patch **27569871**) plus other prerequisite OFSDf patches (see **Section 3.1 Installer and Installation Prerequisites** of [OFSDf Installation Guide](#)) should be installed and configured in your Machine ([OHC](#) Documentation Library).
- AgileREPORTER version **1.15.9-b37**
- AgileREPORTER Templates version **ARforFED\_v1.13.2.4**
- Ensure that you have executed **.profile** before you trigger the installation.
- Ensure that the FIC Server is up and running before you trigger the installation. For information on restarting the services, see Oracle Financial Services Analytical Applications Infrastructure Release 8.0.6.0.0 Installation Guide ([OHC](#) Documentation Library) for more information.

## Configuration for GUI Mode Installation

To install OFS\_REG\_REP\_USFED 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

## Copying and Extracting the Software

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFS\_REG\_REP\_USFED application components are installed.

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

---

1. 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.

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3. Give EXECUTE permission to the file using the command:
4. Extract the contents of the OFS\_REG\_REP\_USFED 8.0.6.0.0 in the Download Directory installer archive file using the following command:

```
unzip OFS_REG_REP_USFED_8.0.6.0.0_<os>.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_REG_REP_USFED
```



## GUI Mode Installation

The OFS\_REG\_REP\_USFED installer can be installed in both GUI and silent mode.

For executing the installer in silent mode, refer to the section [Silent Mode Installation](#).

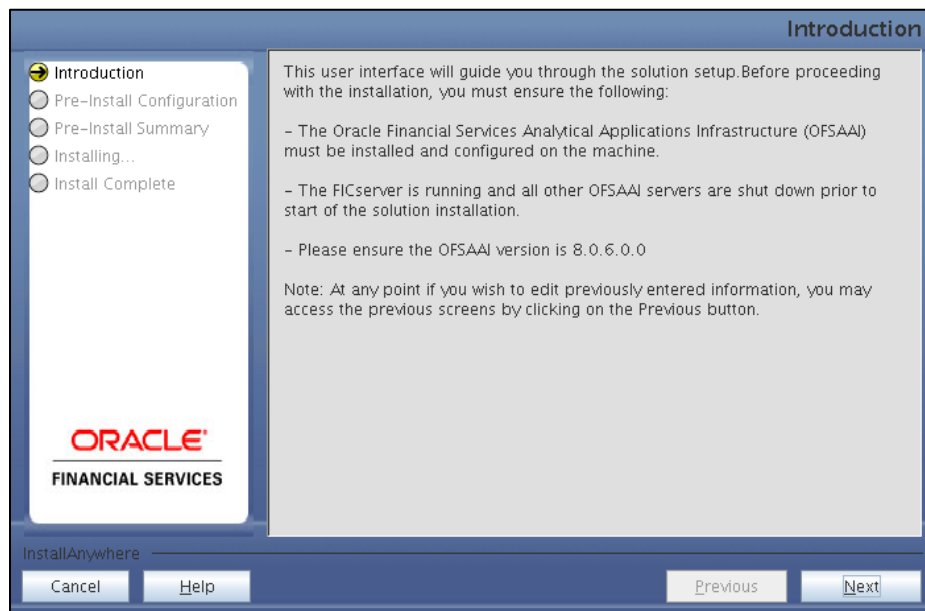
For running in GUI mode, follow these steps:

1. Log in to the system as **non-root user**
2. Execute the user **.profile**
3. Navigate to installer location **OFS\_REG\_REP\_USFED/bin**
4. Run the installer in GUI Mode by executing the command:  
**./Setup.sh GUI**



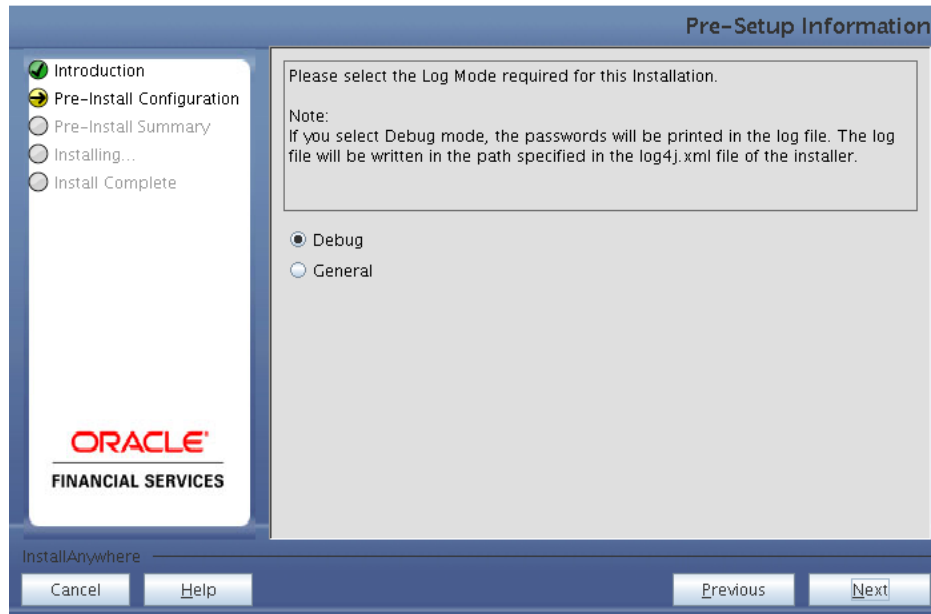
**Installation Splash Screen**

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



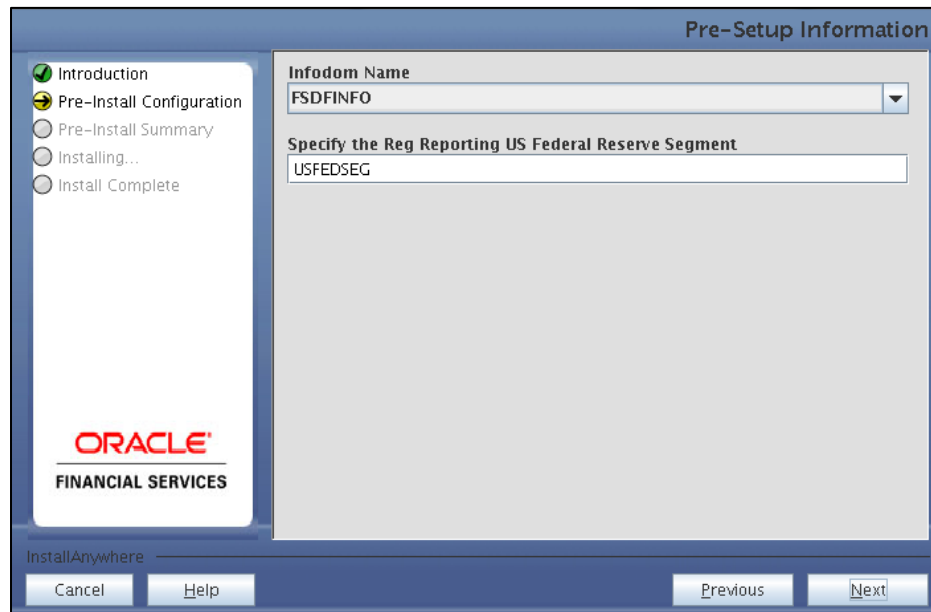
**Introduction Screen**

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



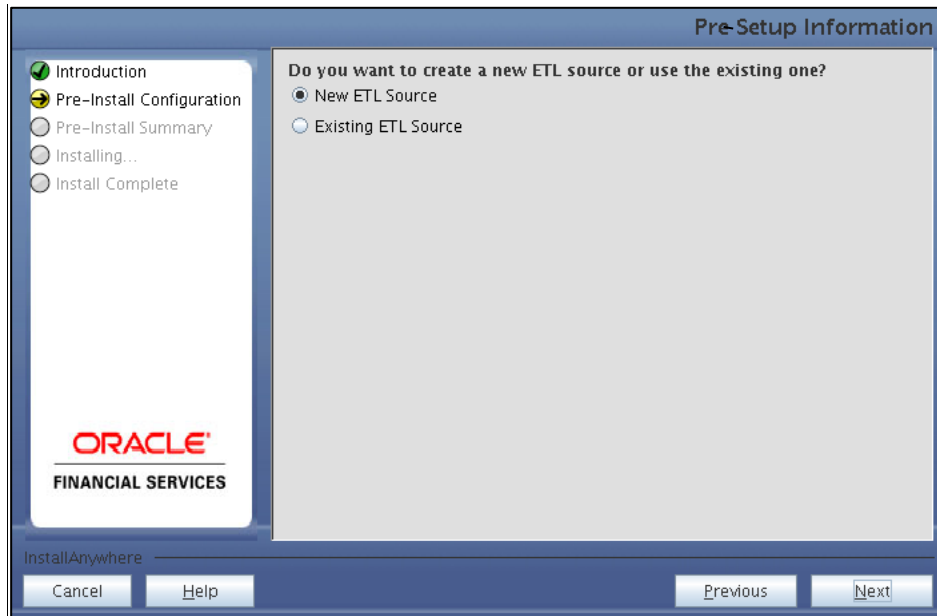
**Pre-Setup Information – Log Mode Screen**

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



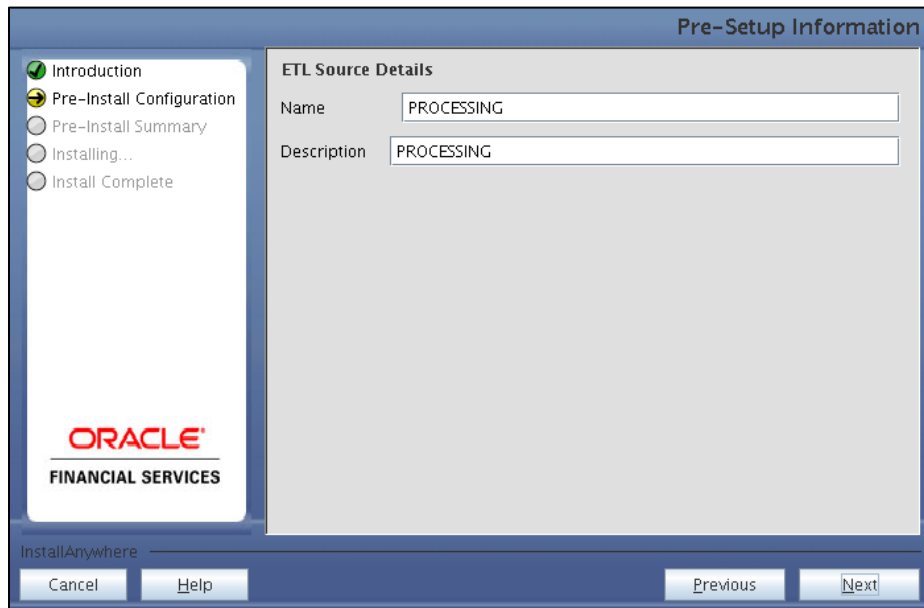
**Pre-Setup Information – Infodom Type Screen**

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



**Pre-Setup Information – ETL Source Selection Screen**

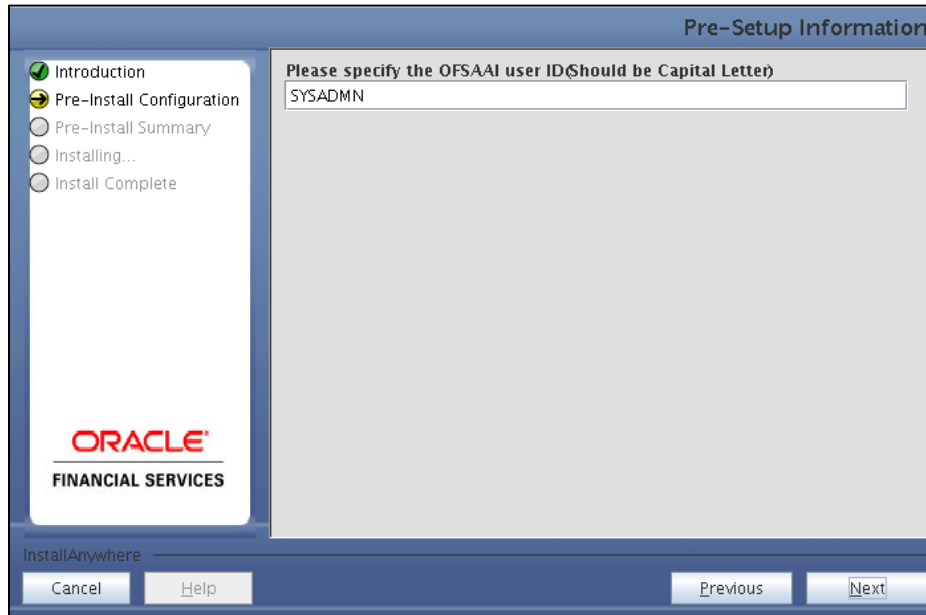
9. In the **Pre-Setup Information** screen, enter the **ETL Source Details** and click **Next**.



**Pre-Setup Information – ETL Source Details Screen**

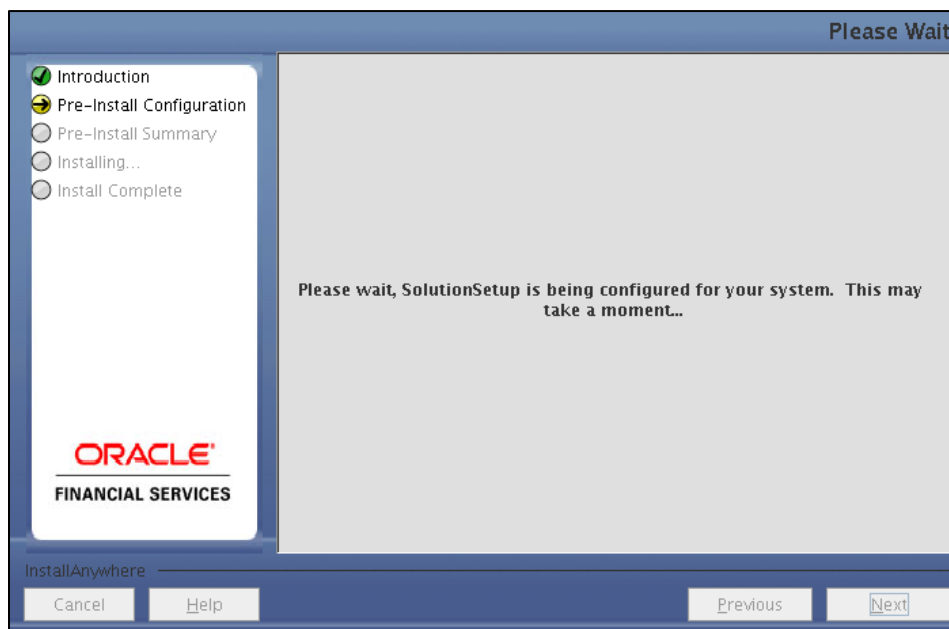
10. In the **Pre-Setup Information** screen, enter the **OFSAAI User ID** and click **Next**.

Default Value is: **SYSADMN**



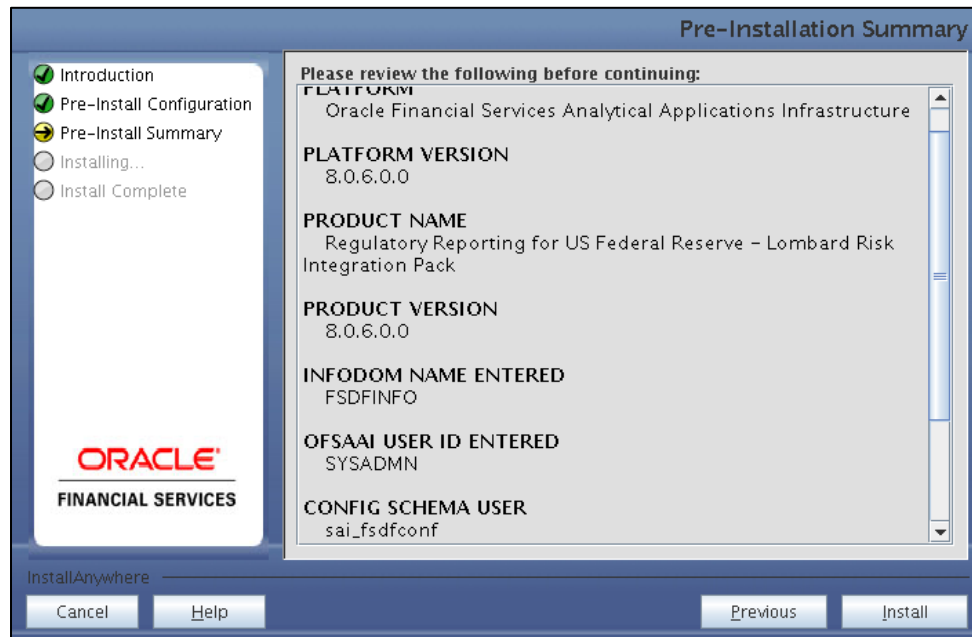
**Pre-Setup Information – OFSAAI User ID Screen**

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



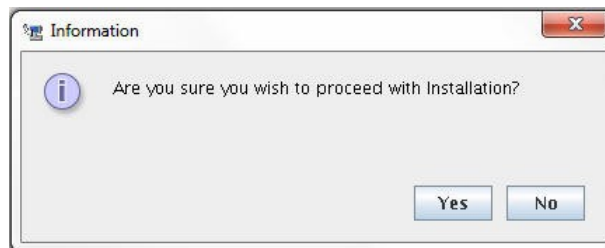
**Pre-Install Configuration – Please Wait Screen**

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

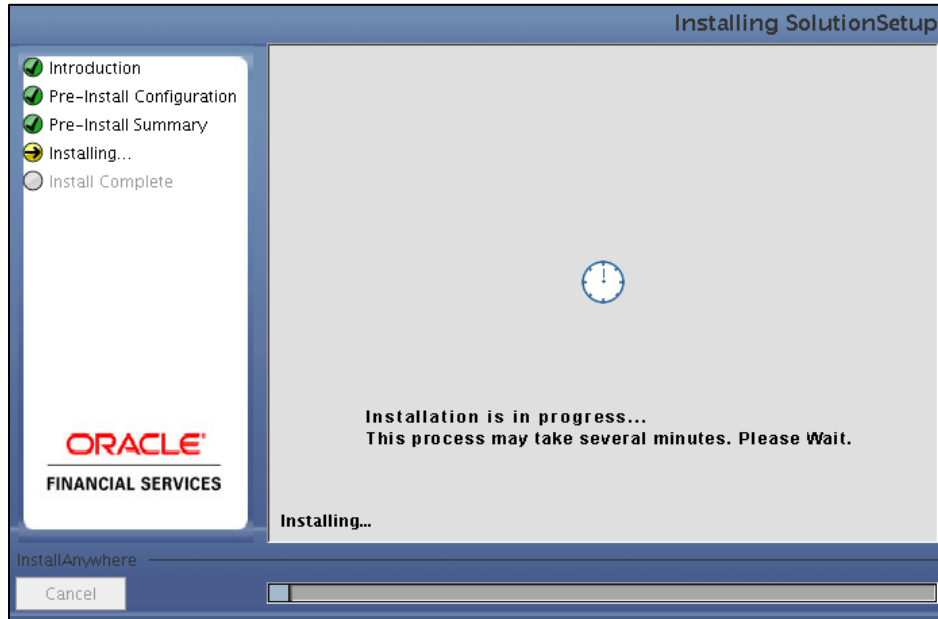


**Pre-Installation Summary Screen**

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

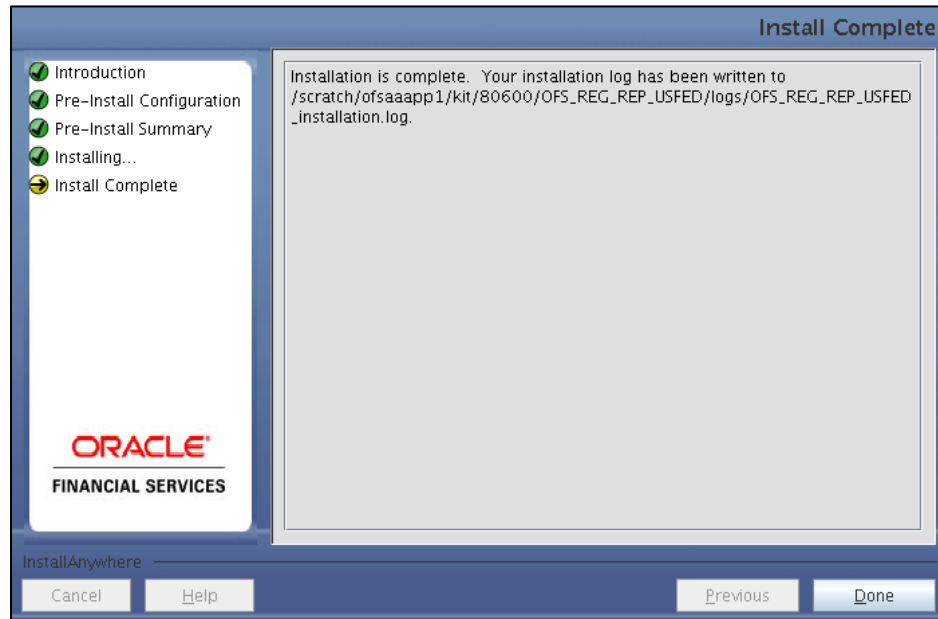


14. The **Installing SolutionSetup** screen is displayed.



**Installing Solution Setup Screen**

15. The **Install Complete** screen is displayed.



**Install Complete Screen**

16. Refer to the log file created in the path `/OFS_REG_REP_USFED/logs` of installer directory for any error messages.

17. Click **Done** to complete the installation.

## 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 these steps to install in Silent Mode:

- 1) Navigate to installer directory **OFS\_REG\_REP\_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	1 = Debug 0 = General	OPTIONAL. Default is 0.
INFODOM_NAME	Specify name of Information Domain (Infodom) into which you wish to install.	For example: FSDFINFO	MANDATORY. Specify Infodom Name Value where FSD Application is installed.
APPFTP_LOG_PATH	Specify the Infodom App Maintenance log path	For example:  /scratch/ofsaaapp1/ftpshare/FSDFINFO/log s	MANDATORY. Path value must be same as the path which was given during FSD installation.
DBFTP_LOG_PATH	Specify the Infodom DB Maintenance log path	For example:  /scratch/ofsaaapp1/ftpshare/FSDFINFO/log s	MANDATORY. Path value must be same as the path which was given during FSD installation.
SEGMENT_1_CODE	Specify the US Federal Reserve Segment Code	For example: USFEDSEG	MANDATORY
ETL_APPSRC_TYPE	Specify if you want to create new ETL Source or use an existing one.	0 = If you want to create a new ETL Source 1 = If you want to use an existing Source	MANDATORY. Default is 0.

ETL_SRC_1_NAME	Specify the ETL Source Name where ETL Area Definitions are deployed	For example: PROCESSING	MANDATORY
ETL_SRC_1_DESC	Specify the description for the ETL Source	For example: PROCESSING	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\_REG\_REP\_USFED/bin**
- 7) Run the installer in SILENT Mode with the following command:  
**./Setup.sh SILENT**

Refer to the console log for any error messages.



## Post Installation Steps

Perform the following instructions after successful installation of the IR patch:

- Apply the OFS AAI **33663417** mandatory patch.

### 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 before version 2.15. The application of the **33663417** Mandatory Patch fixes the issue.

For details, see the My Oracle Support Doc ID [2827801.1](#).

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 `/OFS_REG_REP_USFED/logs` directory to ensure that there are no errors reported.
- Generate the application EAR / WAR file and redeploy the application on the 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 Advanced Analytical Applications Infrastructure Pack Installation Guide – Release 8.0.5.0.0](#).
- Restart all the OFSAA services. For more information, see the Start/Stop Infrastructure Services section in [Oracle Financial Services Advanced Analytical Applications Infrastructure Pack Installation Guide – Release 8.0.5.0.0](#).
- Execute the following script from the Config Schema after replacing the `##INFODOM##` placeholders with the correct values:  
[DSFD4020.sql](#)
- Execute the following scripts from the Atomic Schema after replacing the `##SEGMENT##` placeholders with the correct values:  
[run\\_parameter\\_details.sql](#) and [run\\_parameters\\_lov.sql](#)
- Execute all the batches to Re-save the Derived Entities.

**NOTE:** The following views in the Atomic Schema will be in invalid state (and Run Execution will not be impacted) until the DE RESAVE batches are executed from the OFSAA application.

DEFD_14Q_H2_VW	DEFD_14Q_H1_VW	FFIEC002S_VW_DEFD0026	FFIEC002S_VW_DEFD0027
FFIEC002S_VW_DEFD0028	FFIEC002S_VW_DEFD0029	FFIEC002S_VW_DEFD0030	FFIEC002S_VW_DEFD0031
FFIEC002S_VW_DEFD0032	FFIEC002S_VW_DEFD0033	FFIEC002_VW_DEFD0001	FFIEC002_VW_DEFD0002
FFIEC002_VW_DEFD0004	FFIEC002_VW_DEFD0006	FFIEC002_VW_DEFD0007	FFIEC002_VW_DEFD0008
FFIEC002_VW_DEFD0009	FFIEC002_VW_DEFD0010	FFIEC002_VW_DEFD0011	FFIEC002_VW_DEFD0012
FFIEC002_VW_DEFD0013	FFIEC002_VW_DEFD0014	FFIEC002_VW_DEFD0015	FFIEC002_VW_DEFD0016

FFIEC002_VW_DEFD0019	FFIEC002_VW_DEFD0020	FFIEC002_VW_DEFD0021	FFIEC002_VW_DEFD0022
FFIEC002_VW_DEFD0023	FFIEC002_VW_DEFD0034	FFIEC002_VW_DEFD0035	FFIEC002_VW_DEFD0036
FFIEC002_VW_DEFD0037	FFIEC002_VW_DEFD0038	FFIEC002_VW_DEFD0039	FFIEC002_VW_DEFD0040
FR2052A_ASSET_INFLOW	FR2052A_DEPOSITS_OUTFLOW	FR2052A_FX_SUPPLEMENTAL	FR2052A_INFO_SUPPLEMENTAL
FR2052A_OTHER_INFLOW	FR2052A_OTHER_OUTFLOW	FR2052A_SECURED_INFLOW	FR2052A_SECURED_OUTFLOW
FR2052A_UNSECURED_INFLOW	FR2052A_WHOLESALE_OUTFLOW	FR2314_11_7N_379_1729_V	FR2502q_VW_DEFD3017
FR2502q_VW_DEFD3018	FR2502q_VW_DEFD3019	FR2644_MGMT_ACCOUNT_V	FR2644_MGMT_OTH_ASSET_V
FR2900_DEDUC_FRM_TRNX_ACCT	FR2900_MEMORANDUM_ITEM_COMBINE	FR2900_NET_EURO_CURR_LIAB	FR2900_TOTAL_TIME_DEPO_COMB
FR2900_TRNX_ACCT_DD_GOVRNT	FR2900_TXN_ACCT_DEMAND_DEPO	FR2900_VAULT_CASH_COMBINED	FRY14M_A1_LOAN_ACTSERV_CONS_V
FRY14M_A1_LOAN_LEVEL_DD_V	FRY14M_A2_LOAN_ACTSERV_CONS_V	FRY14M_A2_PORTFOLIO_LEVEL_DD_V	FRY14M_B1_HOME_EQUITY_V
FRY14M_B1_LOAN_ACTSERV_CONS_V	FRY14M_B2_HOME_EQUITY_V	FRY14M_B2_LOAN_ACTSERV_CONS_V	FRY14M_C1_LOAN_LEVEL_DD_V
FRY14M_D1_LOAN_LEVEL_V	FRY14M_D2_PORTFOLIO_LEVEL_V	VW_DEFD4013	VW_DEFD4014
VW_DEFD4015	VW_DEFD4016	VW_DEFD4017	VW_DEFD4018
VW_DEFD4021	VW_DEFD4023	FR2502q_VW_DEFD3017	FR2502q_VW_DEFD3018
FR2502q_VW_DEFD3019			

- Perform the additional configurations if required as mentioned under the *Additional Configurations* section in [OFS AAAI Release 8.0.5.0.0 Installation Guide](#).

The Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack is now ready for use. If you encounter any problems during set up, contact OFSAA Support at [Oracle Support](#).

## Post US FED Run Execution

Perform the following instructions after US FED Run Execution:

1. For prior date reporting, please see the [Prior Date Reporting](#) document.
2. Execute **<<INFODOM>>\_USFED\_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.

## Deploying Config Package

This section describes the steps to deploy the config package after saving the derived entities:

1. To deploy the product configuration on Lombard AgileREPORTER using the package **OFSAA\_REG\_REP\_USFED\_80600.zip** bundled inside the **Config\_Package** folder of installer:
  - a. Navigate to **<LombardAgileREPORTER>/bin** under the installed location
  - b. Add a new configuration with the following command:

```
./config.sh -a <Config_Package_1 Full Path>
```

For example:

```
./config.sh -a /scratch/kit/806/OFS_REG_REP_USFED/Config_Package/OFSAA_REG_REP_USFED_80600.zip
```
  - c. Update the Alias with the following command:

```
./config.sh -ea OFSAA_REG_REP_USFED_80600 -iv 8.0.6.0.0 -alias "OFSAA FED DATA SOURCE" -aif <LombardAgileREPORTER>/bin/aliasinfo.properties
```

If you encounter any problems during deployment, contact OFSAA Support at [Oracle Support](#).



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