Oracle Financial Services
Regulatory Reporting for
European Banking Authority (EBA)
– Lombard Risk Integration Pack

Installation Guide Release 8.0.5.0.0 December 2017



DOCUMENT CONTROL

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1.0	Created: December 2017	Document contents are categorized to appropriate sections and structured considering all the 8.0.5.0.0 features.
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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 8.0.5.0.0 features. You can find the latest copy of this document in OHC Documentation Library 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</u>.



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Preface

Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack (OFS_REG_REP_EBA) enables the customers to enables 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 OFS 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 European Banking Authority (OFS REG REP EBA) Release 8.0.5.0.0.

This chapter discusses the following topics:

- <u>Audience</u>
- 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 European Banking Authority System Administrator. It provides step-by-step instructions necessary for installing the OFS_REG_REP_EBA application components.

Scope

This manual provides a step-wise instruction to install Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack.



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 European Banking Authority.
- 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 European
 Banking Authority.

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=trs if you are hearing impaired.

Related Documents

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

- Oracle Financial Services Regulatory Reporting for European Banking Authority Pack User Guide
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.5.0.0 Java 7 and Java 8
- Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide (present in this <u>OHC Documentation Library</u>)



Conventions and Acronyms

Conventions	Description	
References to sections or ch	napters in the manual are displayed in Italics.	
Screen names are displayed	I 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_REG_REP_EBA	Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack	



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 European Banking Authority – Lombard Risk Integration Pack (OFS_REG_REP_EBA) application has qualified.

1.1 Configurations Supported for Java 7

The following table shows the minimum hardware and software requirements for OFS_REG_REP_EBA (Java 7) application on each machine.

Requirement Sub-Category		Value	
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Red Hat Enterprise Linux or Oracle Linux Server Release 6 Update 6 to latest update version Red Hat Enterprise Linux or Oracle Linux Server Release 7 Update 1 to latest update version	
	Shell	KORN Shell (KSH)	

Note:

If the operating system is RHEL, install the package <code>lsb_release</code> using one of the following commands by logging in as <code>root</code> user:

- yum install redhat-lsb-core
- yum install redhat-lsb

,			
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux	Oracle Java Runtime Environment (JRE) 1.7.x - 64 bit Oracle Java Runtime Environment (JRE) 1.8.x - 64 bit	
Oracle Database Server and Client	Oracle Database Server Enterprise Edition 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ without partitioning option		
	Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ without partitioning option		
	Oracle Client 11g Release 2 (11.2.0.3.0+) - 64 bit		
	Oracle Client 12c Release 1 (12.1.0.1.0+) - 64 bit		
	Oracle 11g Release 2 (11.2.0.3+) JDBC driver (Oracle thin driver)		
	Oracle 12c Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver)		
	Note:		
	Ensure that the following patches are applied:		
	Oracle Server 12c, v12.1.0.1 – 17082699		
	Oracle Server 12c, v12.1.0.2 – 20698050		
	Also for latest information, refer http://support.oracle.co and DB In-Memory - List of Fixes in each Bundle (Doc		



Requirement	Sub-Category	Value	
	Oracle Hyperion Essbase	V 11.1.2.1+ (Server and Client) with Oracle 11g Database V 11.1.2.3+ (Server and Client) with Oracle 12c Database	
OLAP	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database V 12.1.0.1+ with Oracle 12c Database	
	Note: Oracle Hyperion Essbase & Oracle OLAP is required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database server with OLAP option.		
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux	Oracle HTTP Server 11.1.1.7.1/ Apache HTTP Server 2.2.x/ IBM HTTP Server 8.5.5 Oracle WebLogic Server 12.1.3+ (64 bit) / Oracle WebLogic Server 12.2.x (64 bit) IBM WebSphere Application Server 8.5.5.9+ with bundled IBM Java Runtime (64 bit) Apache Tomcat 8.0.25+ (64 bit)	
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.		
	Operating System	MS Windows 7/ Windows 10	
Desktop Requirements	Browser	MS Internet Explorer 11.x (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings. Google Chrome 57.x Mozilla Firefox 52.x For Chrome and Firefox, Turn off Pop-up blocker settings by choosing "Always allow pop-ups for <url>"</url>	
	Office Tools	MS Office 2007/ 2010/ 2013/ 2016 Adobe Acrobat Reader 10 or above	
	Screen Resolution	1024*768 or 1280*1024	
Directory Services	-	OFSAAI is qualified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v 11.1.1.3.0. However, it can be integrated with other directory services software like MS Active Directory.	



Requirement	Sub-Category	Value
	Note: Configuration of Directory services software for OFSAA configuration, see Infrastructure LDAP Configuration. Open LDAP needs to be installed on MS Windows Ser	·

1.2 Configurations Supported for Java 8

The following table shows the minimum hardware and software requirements for installing OFS_REG_REP_EBA (Java 8) application on each machine.

Requirement	Sub-Category	Value
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Red Hat Enterprise Linux or Oracle Linux Server Release 6 Update 6 to latest update version Red Hat Enterprise Linux or Oracle Linux Server Release 7 Update 1 to latest update version
	Shell	KORN Shell (KSH)

Note:

If the operating system is RHEL, install the package <code>lsb_release</code> using one of the following commands by logging in as <code>root</code> user:

- yum install redhat-lsb-core
- yum install redhat-lsb

yum install redhat-lsb			
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux Oracle Java Runtime Environment (JRE) 1.7.x - 64 bit Oracle Java Runtime Environment (JRE) 1.8.x - 64 bit		
Oracle Database Server and Client	Oracle Database Server Enterprise Edition 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ without partitioning option		
	Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ without partitioning option		
	Oracle Client 11g Release 2 (11.2.0.3.0+) - 64 bit		
	Oracle Client 12c Release 1 (12.1.0.1.0+) - 64 bit		
	Oracle 11g Release 2 (11.2.0.3+) JDBC driver (Oracle thin driver)		
	Oracle 12c Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver)		
	Note:		
	nsure that the following patches are applied:		
	Oracle Server 12c, v12.1.0.1 – 17082699		
	Oracle Server 12c, v12.1.0.2 – 20698050		
	 Also for latest information, refer http://support.oracle.com/, 12.1.0.2 Bundle Patches for Engineere Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1) 		



Requirement	Sub-Category	Value	
	Oracle Hyperion Essbase	V 11.1.2.1+ (Server and Client) with Oracle 11g Database V 11.1.2.3+ (Server and Client) with Oracle 12c Database	
OLAP	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database V 12.1.0.1+ with Oracle 12c Database	
	Note: Oracle Hyperion Essbase & Oracle OLAP is required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database server with OLAP option.		
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux	Oracle HTTP Server 11.1.1.7.1 or 11.1.1.9+/ Apache HTTP Server 2.2.x/ IBM HTTP Server 8.5.5 Oracle WebLogic Server 12.1.3+ (64 bit) Oracle WebLogic Server 12.2.x (64 bit) Apache Tomcat 8.0.25+ (64 bit) IBM WebSphere Application Server 8.5.5.9.+ (64 bit)	
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.		
	Operating System	MS Windows 7/ Windows 10	
Desktop Requirements	Browser	MS Internet Explorer 11.x (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings. Google Chrome 57.x Mozilla Firefox 52.x For Chrome and Firefox, Turn off Pop-up blocker settings by choosing "Always allow pop-ups for <url>"</url>	
	Office Tools	MS Office 2007/ 2010/ 2013/ 2016 Adobe Acrobat Reader 10 or above	
	Screen Resolution	1024*768 or 1280*1024	
Other Software	Directory Services	OFSAAI is qualified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v 11.1.1.3.0. However, it can be integrated with other directory services software like MS Active Directory.	



Requirement	Sub-Category	Value
	Note: Configuration of Directory services software for OFSA/configuration, see Infrastructure LDAP Configuration. Open LDAP needs to be installed on MS Windows Ser	·

OFS_REG_REP_EBA application recommends the following software combinations for deployment.

Recommended Software Combinations

Operating System	Database	Web Application Server	Web Server
Oracle Linux 6.6 / 7.1	Oracle Database	Oracle WebLogic Server/ Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server



2 Preparing for Installation

This chapter provides necessary information to review before installing the OFS_REG_REP_EBA Application v8.0.5.0.0. This chapter includes the following topics:

- Obtaining the Software
- Prerequisites for Installation
- Configuration for GUI Mode Installation
- Copying and Extracting the Software

2.1 Obtaining the Software

This release of OFS_REG_REP_EBA 8.0.5.0.0 can be downloaded from the Oracle Support Services site (https://support.oracle.com/). Log in and search for **26967142** under the Patches and Updates tab.

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

2.2 Prerequisites for Installation

The following are the prerequisites to install OFS_REG_REP_EBA application:

- OFS Analytical Applications Infrastructure 8.0.5.0.0 should be installed and configured in your Machine.
- OFS FSDF 8.0.5.0.0 Application Pack should be installed and configured in your Machine.
- Lombard AgileREPORTER Application version **1.15.5-b1217** should be installed and configured in your Machine.
- Ensure that the report templates for AgileREPORTER (European Common Reporting (ECR)) Template version **1.26.1.3** is available in the AgileREPORTER.
- Ensure that you have executed .profile file 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 OFS AAI Release 8.0.5.0.0 Installation Guide (OHC Documentation Library) for more information.

2.3 Configuration for GUI Mode Installation

To install OFS_REG_REP_EBA 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 is 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_REG_REP_EBA application components are installed.

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.

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

chmod 751 unzip <os>

For example, chmod 751 unzip_sparc

4. Extract the contents of the OFS_REG_REP_EBA 8.0.5.0.0 in the Download Directory installer archive file using the following command:

unzip OFS REG REP EBA 8.0.5.0.0 <os>.zip

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

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

chmod -R 755 OFS REG REP EBA



3 Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack

The OFS_REG_REP_EBA 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:

- 1) Log in to the system as non-root user
- 2) Execute the user .profile
- 3) Navigate to installer location OFS_REG_REP_EBA/bin
- 4) Run the installer in GUI Mode by executing the command:
 - ./setup.sh GUI



Installation Splash Screen

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





Introduction Screen

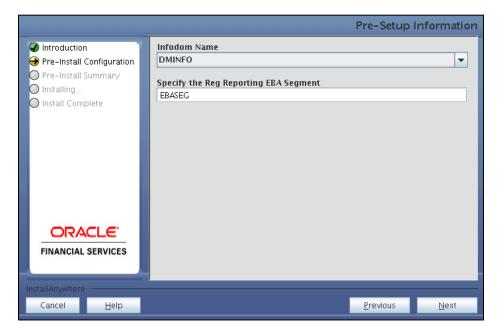
2. Choose the **Log Mode** for this installer. If you select, **Debug**, the Passwords are printed in the log file.



Pre-Setup Information - Log Mode Screen

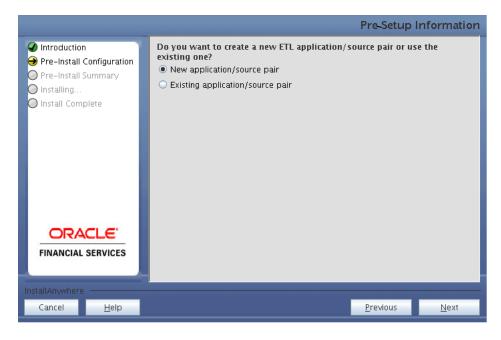


3. In the **Pre-Setup Information** screen, specify the existing infodom name to be used for the application installation and click **Next**.



Pre-Setup Information - Infodom Type Screen

4. In the **Pre-Setup Information** screen, select **New application/source pair** to create a new ETL application and click **Next**.



Pre-Setup Information - ETL Application Selection Screen



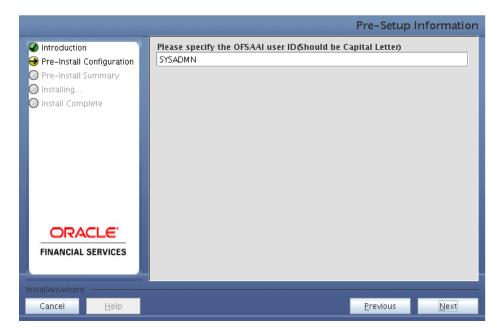
5. In the **Pre-Setup Information** screen, enter the **ETL Application Name & Description** as you wish and **ETL Source Name & Description** as you wish. Then click **Next**.



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

Install Complete Introduction Installation is complete, but some warnings occurred during the install. Your installation log has been written to ◆ Pre-Install Configuration /scratch/ofsaaapp/kit/805/OFS_REG_REP_EBA/logs/OFS_REG_REP_EBA_ ◆ Pre-Install Summary installation.log 🕢 Installing... → Install Complete ORACLE' FINANCIAL SERVICES <u>P</u>revious Cancel <u>H</u>elp <u>D</u>one

11. The Install Complete screen is displayed.

Install Complete Screen

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



4 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:

- Navigate to installer directory OFS_REG_REP_EBA/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: OFSBFNDINFO	MANDATORY. Specify Infodom Name Value where FSDF Application is got installed
APPFTP_LOG_PATH	Specify the Infodom App Maintenance log path	For example: /home/ftpshare/OFSBFNDINFO/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: /home/ftpshare/OFSBFNDINFO/logs	MANDATORY. Path value should be same as the path which was given during FSDF installation
SEGMENT_1_CODE	Specify the European Banking Authority Segment Code	For example: EBASEG	MANDATORY
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



ETL_APP_1_NAME	Specify the ETL Application Name where the Definitions will be deployed.	For example: EBA	MANDATORY
ETL_SRC_1_1_NAME	Specify the ETL Source Name into ETL Area Definitions will be deployed	For example: PROCESSING	MANDATORY
ETL_APP_1_DESC	Please give description for the ETL Application	For example: EBA Application	MANDATORY WHEN ETL_APPSRC_TYPE = 0
ETL_SRC_1_1_DESC	Please give description for the ETL Source	For example: EBA Processing Source	MANDATORY WHEN ETL_APPSRC_TYPE = 0

- 1) Log in to the system as non-root user
- 2) Execute the user .profile
- 3) Navigate to installer location OFS_REG_REP_EBA/bin
- 4) 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.

5 Post Installation Activities

After the installation is complete, perform the following activities:

- Refer to the log file in the path /OFS_REG_REP_EBA/logs to ensure that there are no errors reported.
- Restart all the OFSAAI Servers. Refer *OFS AAI Release 8.0.5.0.0 Installation and Configuration Guide* (OHC Documentation Library) for more information.

The Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack is now ready for use. If you encounter any problems during set up, contact OFSAA Support at <u>Oracle Support Services</u>.



6 Config Package Deployment

This section describes the order 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 EBA 80500.zip bundled inside 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 Full Path>
For example:
```

```
./config.sh -a /scratch/kit/803/OFS_REG_REP_EBA/Config_Package/OFSAA_REG_REP_EBA_80500.zip
```

c. Activate the configuration with the following command:

```
./config.sh -t OFSAA REG REP EBA 80500 -iv 8.0.5.0.0
```

d. Update the Alias with the following command:

```
./config.sh -ea OFSAA_REG_REP_EBA_80500 -iv 8.0.5.0.0 -alias "OFSAA EBA DATA SOURCE" -aif <LombardAgileREPORTER>/bin/aliasinfo.properties
```

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





Oracle Financial Services Regulatory Reporting for European Banking Authority (EBA) 8.0.5.0.0 Installation Guide

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