

Oracle Financial Services
Regulatory Reporting for
Reserve Bank of India –
Lombard Risk Integration
Pack

Installation Guide

Release 8.0.1.0.0



DOCUMENT CONTROL

Version Number	Revision Date	Changes Done
1.0	Created: October 2015	Document contents have been categorized to appropriate sections and structured considering all the 8.0.1 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 8.0.1.0.0 features. You can find the latest copy of this document in [OTN 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 [Oracle Support](#).

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Preface

Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS RRS RBI) enables the banks to comply with BCBS 239 regulations. It provides integrating 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 third party reporting tool - Lombard Risk Reporter Portal 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 Reserve Bank of India (OFS RRS RBI) – Lombard Risk Integration Pack Release 8.0.1.

This chapter discusses the following topics:

- [Audience](#)
- [Scope](#)
- [Prerequisites for the Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions Used](#)

Audience

This Manual is meant for Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack System Administrator. It provides step-by-step instructions necessary for installing the OFS RRS RBI application components.

Scope

This manual provides a step-wise instruction to install Oracle Financial Services Regulatory Reporting for Reserve Bank of India – 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.

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 Reserve Bank of India – Lombard Risk Integration Pack. You can access Oracle documentation online from Documentation Library ([OTN](#)):

- Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack User Guide
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.1.0.0 Java 7 and Java 8
- Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide (present in this [OTN Documentation Library](#))

Conventions and Acronyms

Conventions	Description
	References to sections or chapters in the manual are displayed in <i>Italics</i> . Screen names are displayed 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 RRS RBI	Oracle Financial Services Regulatory Reporting for Reserve Bank of India - 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 Reserve Bank of India (OFS RRS RBI) – Lombard Risk Integration Pack application has been qualified.

NOTE: You can refer to [Technology Matrix](#), for Hardware and Software Requirements.

1.1 Configurations Supported for Java 7

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

Requirement	Sub-Category	Value
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Oracle Linux Server release 5.3 up to 5.10 - 64 bit Oracle Linux Server release 6.0 and above - 64 bit Note: Same versions of RHEL is supported
	Oracle Solaris (SPARC)/Solaris x86	Oracle Solaris v5.10 Update 11 and above - 64 bit Oracle Solaris v5.11 update 1 and above – 64 bit
	IBM AIX (PowerPC)	AIX 6.1 (TL 09 and above) - 64 bit
	Shell	KORN Shell (KSH)
<p>Note: If the OS is IBM AIX 6.1, configure the size parameter setting for “Large File Support”. Refer link http://www-01.ibm.com/support/docview.wss?uid=isg3T1000290 for more details.</p> <p>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:</p> <ul style="list-style-type: none"> ▪ <code>yum install redhat-lsb-core</code> ▪ <code>yum install redhat-lsb</code> 		
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux Oracle Solaris	Oracle Java Runtime Environment (JRE) 1.7.x - 64 bit

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Requirement	Sub-Category	Value
	IBM AIX	IBM AIX Runtime, Java Technology JRE 1.7.x - 64 bit
Oracle Database Server and Client	<ul style="list-style-type: none"> • 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) 	
	<p>Note: Ensure that the following patches are applied:</p> <ul style="list-style-type: none"> ▪ Oracle Server 12c, v12.1.0.1 – 17082699 ▪ Oracle Server 12c, v12.1.0.2 - 19392604, 19649591 <p>Also for latest information, refer http://support.oracle.com/, 12.1.0.2 Bundle Patches for Engineered Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1)</p>	
OLAP	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
	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database V 12.1.0.1+ with Oracle 12c Database
	<p>Note:</p> <p>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.</p>	
Web Server/	Oracle Linux / Red Hat Enterprise Linux/ IBM AIX	Oracle HTTP Server 11.1.1.1/ Apache HTTP Server

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Requirement	Sub-Category	Value
Web Application Server	Oracle Solaris	2.2.x/ IBM HTTP Server <ul style="list-style-type: none"> Oracle WebLogic Server 12.1.2+ (64 bit) IBM WebSphere Application Server 8.5+ with bundled IBM Java Runtime (64 bit) Apache Tomcat 8.0.x (64 bit)
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.	
Desktop Requirements	Operating System	MS Windows 7/ Windows 8/ Windows 8.1
	Browser	MS Internet Explorer 9 , 10 (Compatibility Mode) and 11 (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings .
	Office Tools	MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 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.
	Note: Configuration of Directory services software for OFSAAI installation is optional. For more information on configuration, see Infrastructure LDAP Configuration .	

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Requirement	Sub-Category	Value
		Open LDAP needs to be installed on MS Windows Server machine only.

1.2 Configurations Supported for Java 8

The following table shows the minimum hardware and software requirements for installing OFS RRS RBI pack on each machine.

Requirement	Sub-Category	Value
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Oracle Linux Server release 5.3 up to 5.10 - 64 bit Oracle Linux Server release 6.0 and above - 64 bit Note: Same versions of RHEL is supported
	Oracle Solaris (SPARC)/Solaris x86	Oracle Solaris v5.10 Update 11 and above - 64 bit Oracle Solaris v5.11 update 1 and above – 64 bit
	IBM AIX (POWERPC)	AIX 6.1 (TL 09 and above) - 64 bit
	Shell	KORN Shell (KSH)
<p>Note: If the OS is IBM AIX 6.1, configure the size parameter setting for “Large File Support”. Refer link http://www-01.ibm.com/support/docview.wss?uid=isg3T1000290 for more details.</p> <p>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:</p> <ul style="list-style-type: none"> ▪ <code>yum install redhat-lsb-core</code> ▪ <code>yum install redhat-lsb</code> 		
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux Oracle Solaris	Oracle Java Runtime Environment (JRE) 1.8.x - 64 bit

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Requirement	Sub-Category	Value
	IBM AIX	IBM AIX Runtime, Java Technology JRE 1.8.x - 64 bit
Oracle Database Server and Client	<ul style="list-style-type: none"> • 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) 	
	<p>Note: Ensure that the following patches are applied:</p> <ul style="list-style-type: none"> • Oracle Server 12c, v12.1.0.1 – 17082699 • Oracle Server 12c, v12.1.0.2 - 19392604, 19649591 <p>Also for latest information, refer http://support.oracle.com/, 12.1.0.2 Bundle Patches for Engineered Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1)</p>	
OLAP	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
	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database V 12.1.0.1+ with Oracle 12c Database
	<p>Note:</p> <p>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.</p>	

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Requirement	Sub-Category	Value
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux Oracle Solaris IBM AIX	Oracle HTTP Server 11.1.1.1/ Apache HTTP Server 2.2.x/ IBM HTTP Server <ul style="list-style-type: none"> Oracle WebLogic Server 12.1.3+ (64 bit) Apache Tomcat 8.0.x (64 bit) <p>Note: IBM WebSphere 8.5.x (Full Profile) on Java 8 is not available.</p>
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.	
Desktop Requirements	Operating System	MS Windows 7/ Windows 8/ Windows 8.1
	Browser	MS Internet Explorer 9 , 10(Compatibility Mode) and 11 (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings .
	Office Tools	MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 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.

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Requirement	Sub-Category	Value
	<p>Note:</p> <p>Configuration of Directory services software for OFSAI installation is optional. For more information on configuration, see Infrastructure LDAP Configuration.</p> <p>Open LDAP needs to be installed on MS Windows Server machine only.</p>	

OFS RRS RBI application recommends the following software combinations for deployment.

Recommended software Combinations

Operating System	Database	Web Application Server	Web Server
Oracle Linux 5.3 up to 5.10/ 6.0 and above	Oracle Database	Oracle WebLogic Server /Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server
Oracle Solaris 5.10/ 5.11	Oracle Database	Oracle WebLogic Server /Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server
IBM AIX 6.1	Oracle Database	IBM WebSphere Application Server /Apache Tomcat Server	IBM HTTP Server/ Apache HTTP Server

1.3 Verifying the System Requirements

To verify that the system environment meets the minimum requirements for the installation, a Pre-Install Check utility is available within the Install Kit archive file. This utility can also be obtained separately by contacting Oracle Support.

The system environment verification is an integral and automated part of the installation of this software product. However, Oracle strongly recommends running this utility prior to beginning the installation as part of your organization's "Installation Readiness Verification Process".

NOTE: For more details on download and usage of this utility, see *Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide* ([OTN Documentation Library](#))

2 Preparing for Installation

This chapter provides necessary information to review before installing the OFS RRS RBI Application v8.0.1.0.0. This chapter includes the following topics:

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

2.1 Installer and Installation Prerequisites

The following table mentions the list of prerequisites required before beginning the installation for OFS RRS RBI. The Installer/ Environment Check utility notifies you if any requirements are not met.

Requirement	Sub-Category	Expected Value
Environment Settings	Java Settings	<p>PATH in .profile to be set to include the Java Runtime Environment absolute path. The path should include java version (Java 7, or Java 8) based on the configuration.</p> <p>Note: Ensure the absolute path to JRE/bin is set at the beginning of PATH variable.</p> <p>For example, <code>PATH=/usr/java/jre1.7/bin:\$ORACLE_HOME/bin:\$PATH</code></p> <p>Ensure no SYMBOLIC links to JAVA installation is being set in the PATH variable.</p>
	Oracle Database Settings	<p>TNS_ADMIN to be set in .profile pointing to appropriate tnsnames.ora file</p> <p>ORACLE_HOME to be set in .profile pointing to appropriate Oracle Client installation</p> <p>PATH in .profile to be set to include appropriate \$ORACLE_HOME/bin path.</p>
	Oracle Essbase Settings	<p>ARBORPATH, ESSBASEPATH, HYPERION_HOME to be set in the .profile pointing to an appropriate Oracle Essbase Client installation.</p> <p>Note: These settings are required only if you want to use Oracle Hyperion Essbase OLAP features.</p>

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Requirement	Sub-Category	Expected Value
OS/ File System Settings	File Descriptor Settings	Greater than 15000
	Total Number of Process Settings	Greater than 4096
	Port Settings	Default port numbers to be enabled on the system are 6500, 6501, 6505, 6507, 6509, 6510, 6666, 9999, and 10101.
	.profile permissions	User to have 755 permission on the .profile file.
	Installation Directory	<ul style="list-style-type: none"> • A directory where the installation files will be installed. • Set 755 permission on this directory. • This directory needs to be set as FIC_HOME.
	Staging Area/ Metadata Repository Directory	<ul style="list-style-type: none"> • A directory to hold the application metadata artifacts and additionally act as staging area for flat files. • The directory should exist on the same system as the OFSAA Installation. This directory can be configured on different mount or under a different user profile. • Set 777 permission on this directory.
	Download Directory	<ul style="list-style-type: none"> • A directory where the product installer files will be downloaded/ copied. • Set 755 permission on this directory.
Database Settings	Database Instance Settings	<ul style="list-style-type: none"> • NLS_CHARACTERSET to be AL32UTF8 • NLS_LENGTH_SEMANTICS to be BYTE • OPEN CURSORS limit to be greater than 1000
Web Application Server	WebSphere/ WebLogic/ Tomcat	<ul style="list-style-type: none"> • Web Application Server should be installed and profile /domain created. • You will be prompted to enter the WebSphere Profile path or WebLogic Domain path or Tomcat Deployment path during OFSAAI installation.
Web Server	Apache HTTP Server/ Oracle HTTP Server/ IBM HTTP Server	This is an optional requirement. HTTP Server Installation to be present. You will be required to enter the Web Server IP/ Hostname and Port details during installation.
Others	Oracle R/ Oracle R Enterprise	This is an optional requirement.

NOTE: Ensure that the tablespace(s) used for the database user(s) is set to AUTOEXTEND ON.

2.2 Obtaining the Software

This release of OFS RRS RBI 8.0.1.0.0 can be downloaded from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com>). You need to have a valid Oracle account in order to download the software.

2.3 Prerequisites for Installation

The following are the prerequisites to install OFS RRS RBI application:

- You should have Oracle Financial Services Analytical Applications Infrastructure (AAI) 8.0.1.1 as the minimum patch set level.
- FSDf 8.0.2 Application Pack should be installed and configured in your machine.

NOTE: Alternatively, if FSDf 8.0.2 is not available, then FSDf 8.0.1 should be installed and configured along with the following Data Model Customizations (Bug # **21777114**). The Customizations are available in the [21777114 Data Model Extensions for RRS RBI 801](#).

- Download and apply the Data Model customizations mentioned in Bug # **21777114** - DM EXTENSIONS TO SUPPORT REGULATORY REPORT (RBI) in FSDf 8.0.1 installed environment.

2.4 Configuration for GUI Mode Installation

To install OFS RRS RBI 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

2.5 Copying and Extracting the Software

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFS RRS RBI application components will be installed.

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

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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 RRS RBI 8.0.1.0.0 in the Download Directory installer archive file using the following command:

```
unzip OFS_REG_REP_RBI_8.0.1.0.0_<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_RBI
```

3 Installing Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack

The OFS RRS RBI 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, execute the following command under installer directory.

```
./Setup.sh GUI
```

Refer to the below steps for installation in GUI mode:

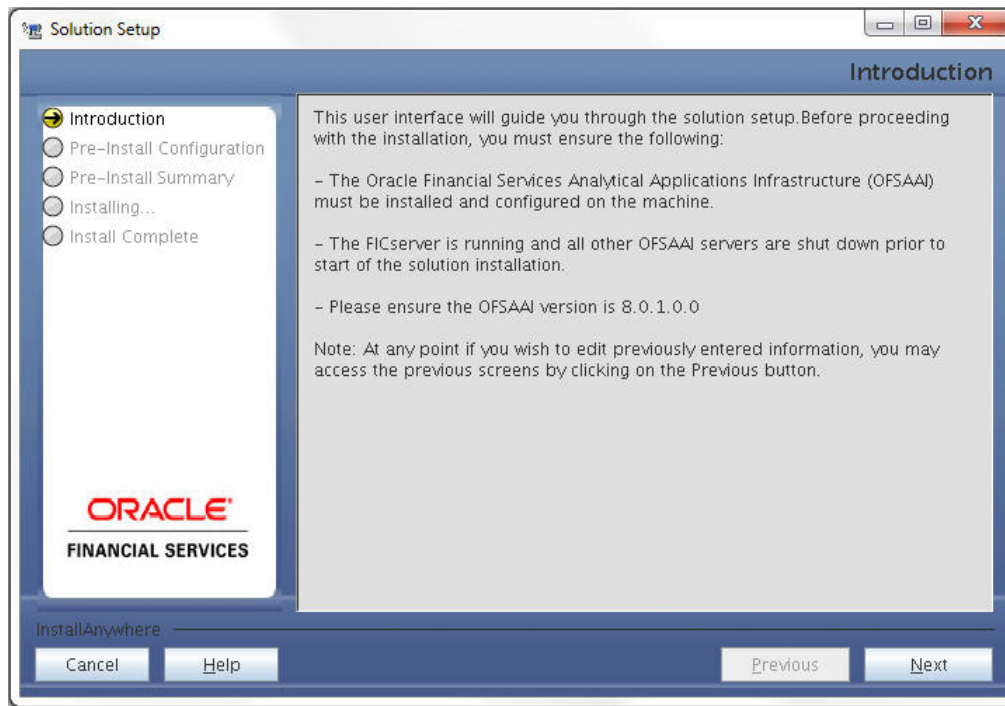
1. To start the installation for Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack, execute the below command:

```
Setup.sh.
```



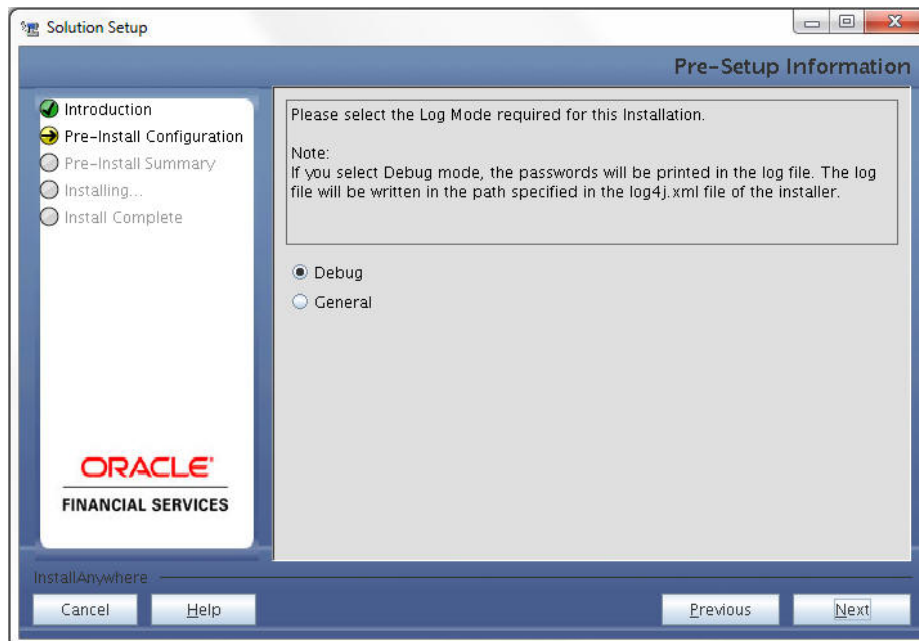
Installation Splash Screen

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



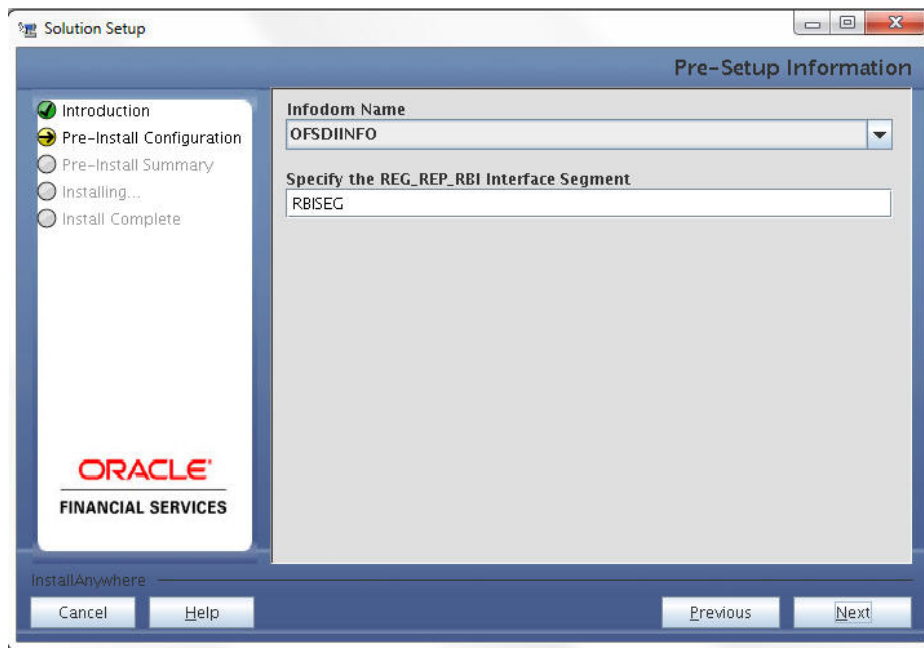
Introduction Screen

3. Choose the Log Mode for this installer. If you select, **Debug**, the Passwords will be printed in the Log File.



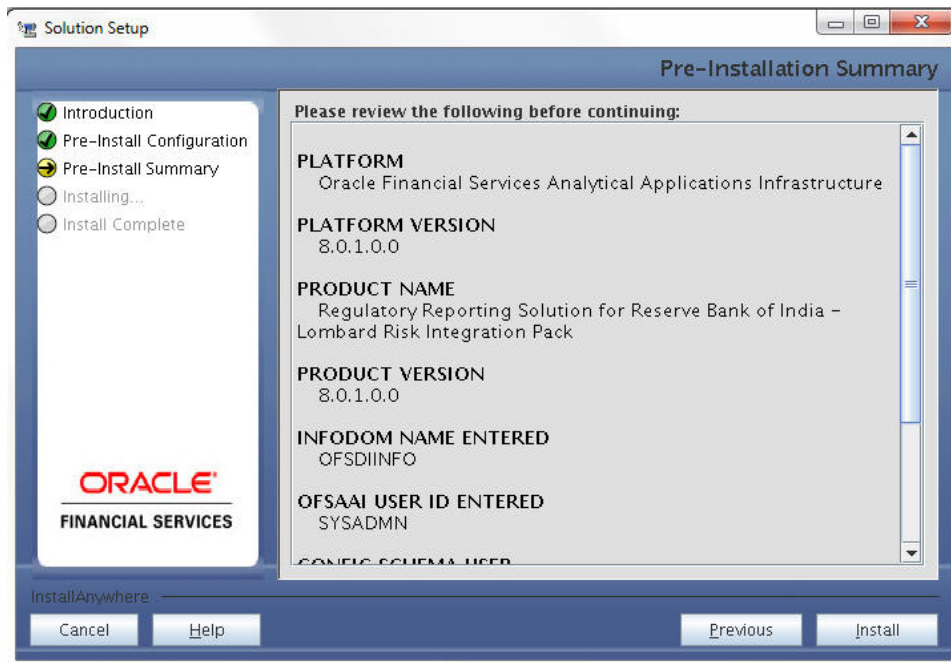
Pre-Setup Information-Log Mode Screen

4. In the Pre-Setup Information screen specify the existing infodom name to be used for the application installation. Select the desired option.



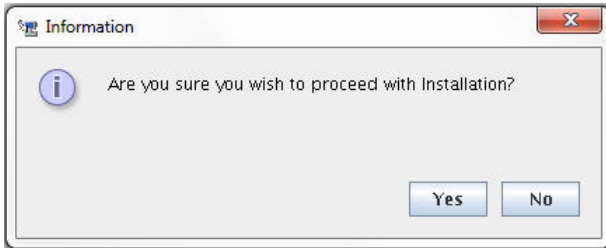
Pre Setup Information Screen – Infodom type

5. Click **Next** to continue.
6. Review the settings in the Pre-Installation Summary screen. Click **Install**.

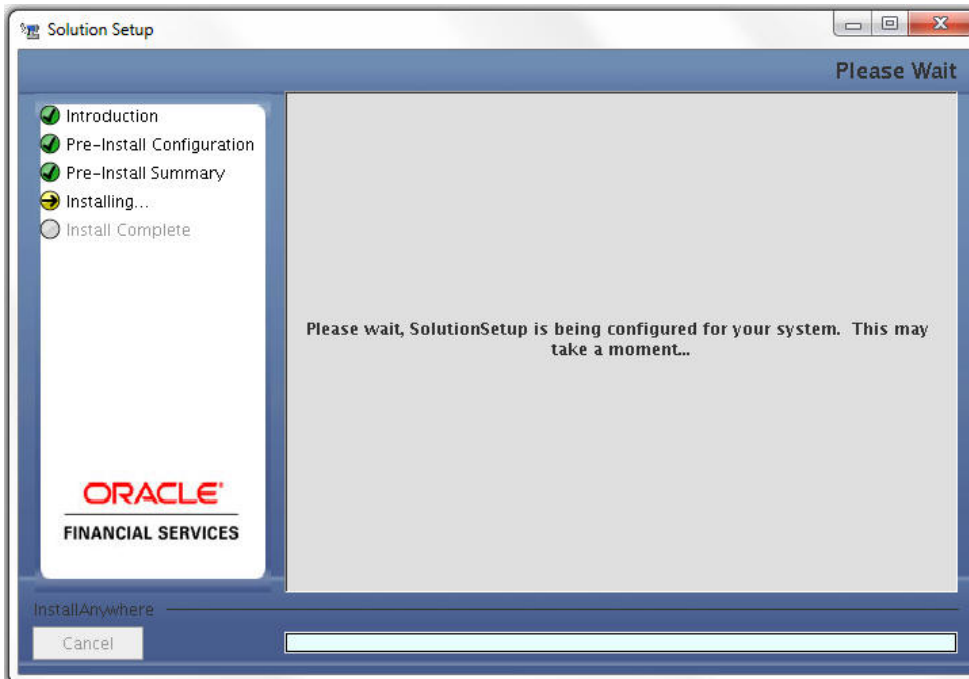


Pre-Installation Summary Screen

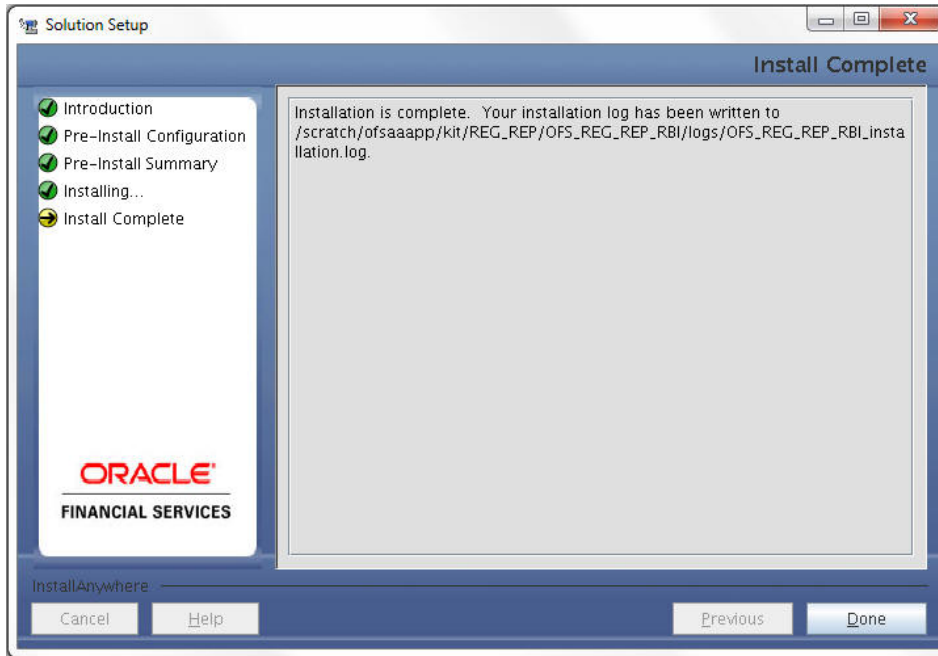
7. The following message is displayed. Select **Yes** to begin the installation process.



8. Refer to the log file created in the path mentioned in `log4j.xml` for any error messages.



9. The Installation Complete screen is displayed.



10. Click **Done**. Installation is complete.

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:

1. The installer folder contains the template file “Silent.template”.
2. Create a copy of this file and rename the copy as “Silent.props”.
3. Edit the file “Silent.props” and specify the parameters as per the requirements.
4. On the UNIX Command prompt, execute the following command

```
Setup.sh SILENT
```
5. Refer to the console log [or the file preinstall.log] for any error messages.

The following table lists all the properties that need to be specified:

Property Name	Description of Property	Permissible values	Comments
LOG_MODE	Mode for logging	0 = Debug 1= General	Optional; Default : 0
SEGMENT_CODE	Segment Code	NA For example, RBISEG	MANDATORY
INFODOM_NAME	Name of the existing infodom where component is to be deployed	NA For example, OFSBFNDINFO	MANDATORY

5 Post Installation Activities

After the installation is complete, perform the following activities:

- Refer to the log file in the path `/OFS_REG_REP_RBI/logs` to ensure that there are no errors reported.
- Restart all the OFSAAI Servers. Refer OFS AAI Release 8.0 Installation Guide ([OTN Documentation library](#)) for more information.

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

5.1 Saving the Derived Entities

After the server restart is complete, save all the derived entities manually using the OFSAAI User Interface (Unified Analytical Metadata >> Business Metadata Management >> Derived Entity).

There are dependencies between the objects. Therefore, first save the derived entities in the order mentioned below.

Sl. No	Derived Entity Code	Derived Entity Description
1	DEREG901	'DE - Setup Master for Year'
2	DEREG902	'DE - Setup Master for MIS Date'
3	DEREG903	'DE - Setup Master for Quarter'
4	DEREG904	'DE - Setup Master for Last Year'
5	DEREG905	'DE - Setup Master for Last Quarter'
6	DEREG906	DE - Management Reporting YTD Movement
7	DEREG907	DE - Management Reporting QTD Movement
8	DEREG908	DE - Management Reporting Previous QTD Movement
9	DEREG909	DE - Management Reporting Previous YTD Movement
10	DEREG913	DE - Special Fortnightly Return
11	DEREG918	'DE- Asset Level A1'
12	DEREG919	'DE- Asset Level A2'
13	DEREG924	'DE- Standard Party'
14	DEREG925	'DE- Band Dimension'
15	DEREG928	'DE- Party Dimension'
16	DEREG929	'DE-Country Dimention'
17	DEREG933	'DE - Guarantor Country Dimention'
18	DEREG940	'DE - Reg Account YTD Metrics'
19	DEREG941	'DE - Reg Account QTD Metrics'

Sl. No	Derived Entity Code	Derived Entity Description
20	DEREG944	'DE - Setup Master for Entity'
21	DEREG945	DE - Entity Details
22	DEREG947	'DE - Alternate Friday Summary'
23	DERWA010	'DE-Consolidation'
24	DEREG910	DE - Management Reporting EOP Balance
25	DEREG911	DE - Reg Account Summary
26	DEREG912	DE- Basic Statistical Return
27	DEREG012	DE - STD Account Head
28	DEREG917	DE-Liquidity Reporting
29	DEREG926	DE-Account Summary
30	DEREG930	DE-LRM Summary
31	DEREG932	DE-Aggregate Cash Flow
32	DEREG934	DE-Capital Instrument Transaction Summary
33	DEREG935	DE - Management Reporting EOP for ALE
34	DEREG936	DE - Management Reporting YTD Movement Agg
35	DEREG937	DE - Management Reporting QTD Movement Agg
36	DEREG938	DE - Management Reporting Previous QTD Agg
37	DEREG939	DE - Management Reporting Previous YTD Agg
38	DEREG942	DE - Reg Account YTD Metrics Agg
39	DEREG943	DE - Reg Account QTD Metrics Agg
40	DEREG946	DE - Sundry Debtors Account
41	DEREG948	DE - SLR Securities Summary
42	DEREG949	DE - Special Fortnightly Return Agg

5.2 Deploying OFSAA DW Product Configuration on Reporter Portal

After saving the derived entities, proceed to deploy the product configuration on Reporter Portal using the package **OFSAA_REG_REP_RBI_80100.zip** bundled inside **Config_Package** folder of installer.

Refer to the Reporter Portal Installation Guide v1.11, for more details on installing Product Configuration on Reporter Portal.

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

6 Appendix

6.1 Additional Information

This section includes the following topics:

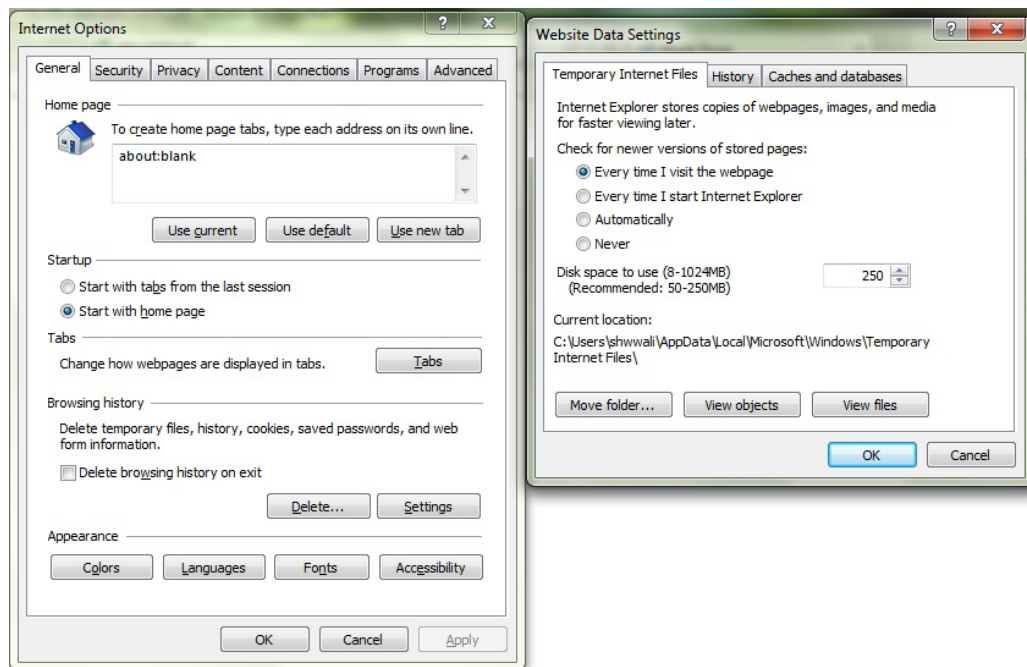
- [Internet Explorer Settings](#)
- [Infrastructure LDAP Configuration](#)

6.1.1 Internet Explorer Settings

NOTE: OFSAI supports only default zoom setting in Internet Explorer, that is, 100%.
Cookies should be enabled.

The following browser settings have to be specified at every client machine prior to accessing the Infrastructure application.

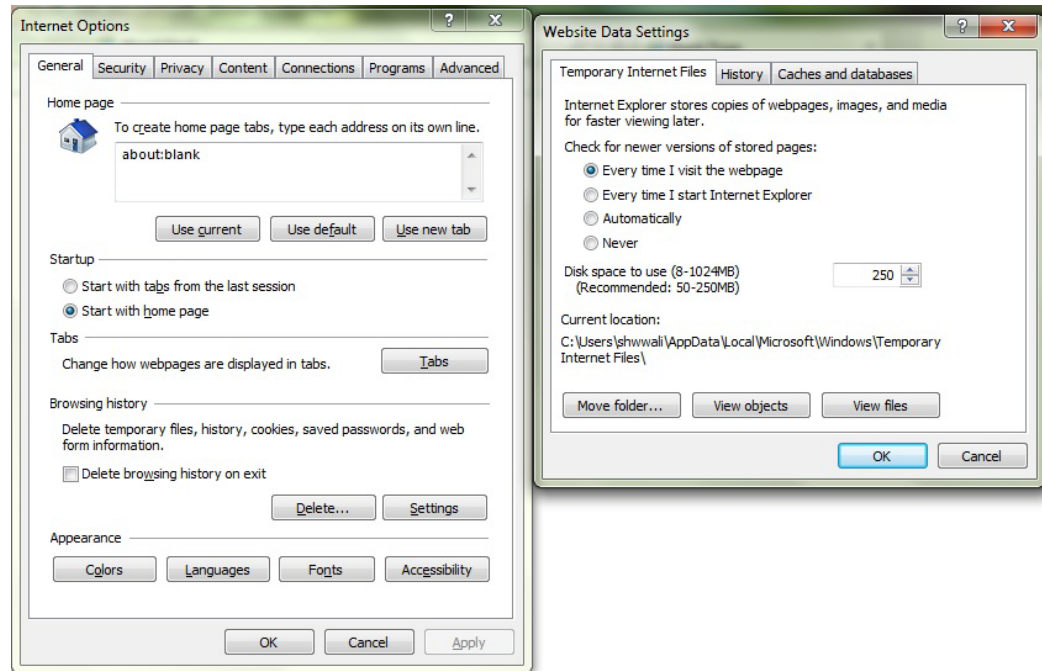
1. Open **Internet Explorer**. Select **Tools > Internet Options**. The Internet Options window is displayed.
2. Click the **Settings** button. The Settings window is displayed.
3. Select the option **Everytime I Visit the webpage** and click **OK**.



4. In the Internet Options window, select the **Security** tab and select the **Internet** option under **Select a zone to view or change the security settings**.
5. Click **Default Level** under **Security level for this zone**.



6. Click **OK** to save.
7. Click **Internet Explorer >> Tools >> Compatibility View Settings**.
8. Enter the OFSAA setup URL in the **Add this website** field.
9. Click **Add**.
10. Ensure the URL is listed under **Websites you've added to Compatibility View**.
11. In the Internet Options window, select the **Privacy** tab and select the **Turn on Pop-up Blocker** option under **Pop-up Blocker** settings.



12. Click **Settings**. The Pop-up Blocker Settings window is displayed.
13. Enter the URL of the OFSAA Application in the **Address of Website to Allow:** field.
14. Click **Add**. The OFSAA URL is displayed in the **Allowed Sites** section.
15. Click **Close**.
16. Click **OK** in the Internet Options window.

6.1.2 Infrastructure LDAP Configuration

This provides you with the option of using LDAP (Lightweight Directory Access Protocol) authentication or Infrastructure SMS authentication for logging on to Infrastructure.

If you are using the Infrastructure authentication, the user and user group details, profile creation, function and role maintenance and other mappings can be done through the Infrastructure Administration module under Security Management. The data in this case, will be updated in the CSSMS table.

However, if you wish to use LDAP for user authentication, then you have to ensure that the LDAP server is installed and configured. Also make sure that OPEN LDAP 2.2.29+ is installed and configured in Windows machine. Before doing the following configuration, it is required to select the "Authentication type" as LDAP in the *Configuration* screen of Infrastructure. This screen can be accessed by selecting *System Configuration > Configuration* in the LHS menu of Infrastructure. In the Windows machine in which LDAP Server is installed, go to the OpenLDAP installation directory through the command prompt and execute the command "slapd -d 1" to start the LDAP server.

6.1.2.1 Configure Infrastructure "Configuration Schema"

In the Infrastructure "configuration schema", ensure the following entries in Configuration Table.

PARAMNAME	Description	PARAM Value Example
AUTHENTICATIONTYPE	Authentication type	3 - AUTHENTICATIONTYPE value must be 3 for LDAP
ROOTCONTEXT	The Root Context for the LDAP Directory	dc=<OFSAA>, dc=<com>
ROOTDN	The Root dn for LDAP directory	cn=<Manager>, dc=<Reveleus>, dc=<com>
ROOTPASS	Password for the Root	<secret>
LDAPURL	LDAP URL	<ldap://10.11.12.13.1234/>
LDAP_SSL_MODE	LDAP in SSL Mode	N for non - SSL and Y for SSL
HASHPASS	Should the user password be Hashed	FALSE or TRUE. When HASSPASS is set as FALSE, we need to have the ROOTDN value as "uid=ORCLADMIN, ou =Users, dc=OFSAAI, dc=com". ORCLADMIN is a dummy user, it will be replaced dynamically with the logged in user. When HASSPASS is set as TRUE, we need to have the ROOTDN value as "cn=orcladmin, cn=Users, dc=i-flex,dc=com" and proper oracladmin LDAP password as ROOTPASS. First OFSAAI connects to LDAP directory using orcladmin user and fetches the login user details and verifies the entered password.
RETRIEVE_DN	To retrieve Distinguished Name	TRUE

NOTE: ROOTCONTEXT, ROOTDN, and ROOTPASS entries should be same as in the slapd.conf file.

6.1.2.2 Configure OpenLDAP Files

1. Copy the `reveusSchema.schema` from <Infrastructure Installation Directory>/`ficapp/common/FICServer/conf/LDAP_LDIF` folder to LDAPServer Schema folder.
2. Copy the `Domains.ldif` and `Reveus.ldif` files from <Infrastructure Installation Directory>/`ficapp/common/FICServer/conf/LDAP_LDIF` folder to OpenLDAPServer folder.

NOTE: Make sure that the `ROOTCONTEXT` in the `Domains.ldif` and `Reveus.ldif` files are the same as `slapd.conf` file.

3. Provide the appropriate entries for `ROOTDN`, `ROOTPASS`, and `ROOTCONTEXT` in `slapd.conf` file in the `OpenLDAPServer` folder.
4. Add the text `"include schema/reveusSchema.schema"` as the first line of the `slapd.conf` file.

NOTE: The above steps of the configuration are for OpenLDAP Server only. If you need to configure Infrastructure for any other LDAP Server, you will have to make the changes appropriately.

5. In the command prompt, navigate to the LDAP installation directory and execute the command `"ldapadd -D"ROOTDN" -w ROOTPASS -f/data/Reveus.ldif"`
6. This is for creating the entries for Users, User Groups, Functions, Profiles, Segments, Domains, Roles, and HolidayMaster in the Data information Tree of LDAP.
7. Make an entry in the `Domains.ldif` file for each Information Domain that is created through the Infrastructure UI.

To add an entry corresponding to the new Information Domain to the `Domains.ldif` file, add the following block of text with the appropriate values:

NOTE: DSNID refers to Information Domain name.

```
dn: DSNID=<DSN ID>,ou=Domains,@LDAP_DIRECTORY_ROOTCONTEXT@
changetype: add
mappedsegments: <Mapped segments/~>
dsnid: <DSN ID>
infodomname: < Information Domain Name>
objectClass: Infodom
objectClass: top
infodomdescription: < Information Domain Description>
```

Example:

```
dn: DSNID=FUSIONMOCK, ou=Domains, dc=FTP1,dc=com
```

```
mappedsegments: ~
```

```
dsnid: FUSIONMOCK
```

```
infodomname: FUSIONMOCK
```

```
objectClass: Infodom
```

```
objectClass: top
```

```
infodomdescription: FUSIONMOCK
```

Then, navigate to LDAP installation directory and execute the command "D"ROOTDN" -w
ROOTPASS -f/data/Domains.ldif"

NOTE: You can add entries for multiple Information Domains at the same time.

6.1.2.3 Migrate Data from CSSMS tables to LDAP server

If you are using LDAP authentication, it is required to migrate all the details from the CSSMS table, which contains the information entered using the Infrastructure Administration module under Security Management to the LDAP Server.

To migrate data from CSSMS tables to LDAP server:

1. Invoke the LDAP_Migration.sh file in
\$FIC_HOME/MigrationUtilities/Migration_LDAP/ bin folder. The Select Source & Destination for Migration window is displayed with the option to migrate the data from SMS to LDAP or vice versa.



Select Source and Destination for Migration

2. Select the SMS to LDAP option and click OK. The Select Entities to Migrate window is displayed.



Select Entities to Migrate

3. You can select the data that you wish to migrate such as Users, User Groups, Functions, Roles, Segment, Profiles, Holiday Master, Function Role Maps, User - User Group Maps, User Group Role Map, and User Group- Domain Map.
4. Select the entities that you wish to migrate and click Migrate. The data is migrated and a confirmation dialog is displayed.
5. You can verify the data migrated to LDAP server through the LDAP Browser.

NOTE: You should also enter the passwords for all the users as passwords are not migrated in migration process.



Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack

Installation Manual

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