Installation Manual
Oracle Financial Services Liquidity Risk Management
Release 2.0.2.0.0
June 2014

Document Control

Version Number	Revision Date	Changes Done
Version 2.0.2.0.0	Revised on June 2014	Updated the changes for LRM release 2.0.2.0.0
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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 2.0.2.0.0 enhancements. 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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1. About this Manual

1.1 Oracle Financial Services Analytical Applications Infrastructure Overview

Oracle Financial Services Analytical Application Infrastructure (*OFSAAI*) is an analytical application platform which has been architected to be multi-tiered and open-systems compliant. OFSAAI is fully web-enabled. It's a 100% thin-client, browser-based interface with zero foot print which dramatically reduces the cost of application deployment. All OFSAAI processes, including those related to business, are metadata-driven, thereby providing a high degree of operational and usage flexibility, and a single consistent view of information to all users.

OFSAAI product suite includes a rules-framework designer engine, Unified Metadata Manager which has a semantic layer of metadata abstraction that is common over both relational and OLAP repositories.

1.2 Analytical Applications Overview

Analytical Applications like Oracle Financial Services Liquidity Risk Management are pre-packaged on OFSAAI and are ready to install.

1.3 Audience

This manual is meant for the OFSAAI Application System Administrator as they play an integral part in installing the Oracle Financial Services Analytical Applications.

1.4 Scope

This manual provides a step-wise instruction to install the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0, in an existing OFSAAI 7.3.3.3.0 Platform hosted on AIX 5.3/6.1, RHEL 5.3 /5.8, OEL 5.3/5.8 or Sun Solaris 5.10 Server – Oracle 11g R2 (11.2.0.2.0) – Tomcat 7.0.19, Websphere 7.0.0.17 or Web logic 10.3.5.0– 64 bit environment-Oracle Business Intelligence Suite Enterprise Edition 11.1.1.7.1(Build 130605.1300 64-bit).

1.5 Organization of the Manual

The Installation Manual is organized into the following chapters:

- Prerequisites section identifies the hardware and base software environment that is required for successful installation and functioning of Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0.
- Installing the Application section details the pre-installation activities followed by a step-by-step instruction on the various installation options.
- Post Installation Activities section details the steps that are required to be performed after the successful installation of the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0.

1.6 Conventions Used in this Manual

- References to sections or chapters in the manual are displayed in *Italics*.
- Screen names are displayed in the following manner:

  Introduction screen

- Options and buttons are displayed in Bold.
- Notes are displayed as follows:

NOTE:

It is important that the password should be 6 characters long. If you do not adhere to this pre-requisite, you will see a system message that reads **Password must be at least 6 characters long**.

2. Pre-installation Configuration

The list of pre-configurations required to install and run the OFSAAI 7.3.3.3.0 Infrastructure is stated in this section. Further, the installation process requires certain environmental variables to be set prior to starting the installation. Ensure the following requirements are met before installation.

2.1 Prerequisites

- Infrastructure version 7.3.3.3.0 should be installed.

  Refer to *OFSAAI Installation and Configuration Guide*.

2.2 Environment

RHEL 5.3 / 5.8 - OEL 5.3 / 5.8 - Oracle 11g R2 (11.2.0.2.0) - Web logic 10.3.5.0 / Websphere 7.0.0.17 / Tomcat 7.0.19 (64 bit)

Type	Description
OS	• Red Hat Enterprise Linux Server release 5.8 (Tikanga) - 64 bit • Oracle Enterprise Linux Server release 5.8 (Carthage) - 64 bit • Red Hat Enterprise Linux Server release 5.3 (Tikanga) - 64 bit • Oracle Enterprise Linux Server release 5.3 (Carthage) - 64 bit
Infrastructure Application Server	• Oracle Client 11g R2 (11.2.0.2.0) - 64 bit • Sun JDK Standard Edition 1.6.0_25 - 64 bit • Sun JRE Standard Edition 1.6.0_25 - 64 bit

Type	Description
Infrastructure Database Server	• Oracle Database Server 11g Release 2 (11.2.0.2.0)-64 bit with or without RAC [Enterprise edition with partitioning capability] • Sun JRE Standard Edition 1.6.0_25 - 64 bit • Sun JDK Standard Edition 1.6.0_25 - 64 bit
Infrastructure Web Server	• Oracle 11g R2 (11.2.0.2.0) JDBC driver (Oracle thin driver) • Sun JRE Standard Edition 1.6.0_25 - 64 bit • Sun JDK Standard Edition 1.6.0_25 - 64 bit • Web logic 10.3.5.0 with JDK Standard Edition 1.6.0_25 -64 bit • Websphere 7.0.0.17 with IBM Runtime, Java Technology JDK 1.6.0 (SR9 FP1) - 64 bit • Apache Tomcat 7.0.19 pointing to JDK Standard Edition 1.6.0_25 - 64 bit **Note the following**: Any one of the above mentioned web servers (Web logic, Websphere, or Apache Tomcat) installation is required based on the requirement.

Solaris 5.10 - Oracle 11g R2 (11.2.0.2.0) - Web logic 10.3.5.0 / Websphere 7.0.0.17 / Tomcat 7.0.19 (64 bit)

Type	Description
OS	Oracle Solaris v5.10 Update 9 (9/10 s10s_u9wos_14a) SPARC sun4v - 64 bit
Infrastructure Application Server	• Oracle Client 11g R2 (11.2.0.2.0) - 64 bit • Sun JDK Standard Edition 1.6.0_25 - 64 bit • Sun JRE Standard Edition 1.6.0_25 - 64 bit

Type	Description
Infrastructure Database Server	• Oracle Database Server 11g Release 2 (11.2.0.2.0)-64 bit with or without RAC [Enterprise edition with partitioning capability] • Sun JRE Standard Edition 1.6.0_25 - 64 bit • Sun JDK Standard Edition 1.6.0_25 - 64 bit
Infrastructure Web Server	• Oracle 11g R2 (11.2.0.2.0) JDBC driver (Oracle thin driver) • Sun JRE Standard Edition 1.6.0_25 - 64 bit • Sun JDK Standard Edition 1.6.0_25 - 64 bit • Web logic 10.3.5.0 with JDK Standard Edition 1.6.0_25 -64 bit • Websphere 7.0.0.17 with IBM Runtime, Java Technology JDK 1.6.0 (SR9 FP1) - 64 bit • Apache Tomcat 7.0.19 pointing to JDK Standard Edition 1.6.0_25 - 64 bit **Note the following**: Any one of the above mentioned web servers (Web logic, Websphere, or Apache Tomcat) installation is required based on the requirement.

AIX 5.3 (ML 12) & AIX 6.1 (ML 07) - Oracle 11g R2 (11.2.0.2.0) - Web logic 10.3.5.0 / Websphere 7.0.0.17 / Tomcat 7.0.19 (64 bit)

Type	Description
OS	• AIX 5.3 (ML 12) - 64 bit • AIX 6.1 (ML 07) - 64 bit
Infrastructure Application Server	• Oracle Client 11g R2 (11.2.0.2.0) - 64 bit • IBM AIX Runtime, Java Technology JRE 1.6.0 (SR10) - 64 bit • IBM AIX Runtime, Java Technology JDK 1.6.0 (SR10) - 64 bit

Type	Description
Infrastructure Database Server	• Oracle Database Server 11g Release 2 (11.2.0.2.0)-64 bit with or without RAC [Enterprise edition with partitioning capability] • IBM AIX Runtime, Java Technology JRE 1.6.0 (SR10) - 64 bit • IBM AIX Runtime, Java Technology JDK 1.6.0 (SR10) - 64 bit
Infrastructure Web Server	• Oracle 11g R2 (11.2.0.2.0) JDBC driver (Oracle thin driver) • IBM AIX Runtime, Java Technology JRE 1.6.0 (SR10) - 64 bit • IBM AIX Runtime, Java Technology JDK 1.6.0 (SR10) - 64 bit • Web logic 10.3.5.0 pointing to IBM AIX Runtime, Java Technology JDK 1.6.0 (SR10)- 64 bit • Websphere 7.0.0.17 pointing to IBM Runtime, Java Technology JDK 1.6.0 (SR9 FP1) - 64 bit • Apache Tomcat 7.0.19 pointing to IBM AIX Runtime, Java Technology JDK 1.6.0 (SR10)- 64 bit **Note the following**: Any one of the above mentioned web servers (Web logic, Websphere, or Apache Tomcat) installation is required based on the requirement.

2.3 Generic Software

Type	Description
Other Software	OFSAAI is certified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v11.1.1.3.0. Ensure that you have installed any one of the following for OFSAAI authentication purposes. **Note**: OPEN LDAP needs to be installed on Microsoft Windows machine only. Hummingbird **Exceed** 7.0 has to be installed on a Microsoft Windows machine as a simulator for remote installation. **Note**: Hummingbird Exceed is required for GUI Mode of installation.

Type	Description
Front End Access	Microsoft Internet Explorer 8/9 Microsoft Office 2003/2007 Client Machines – Windows XP SP3/Windows 7 The screen resolutions supported are 1024*768 and 1280*1024 Adobe Reader 8.0 Java Plug-in 1.6.0_21 **Note**: • Ensure that Java Plug-in is enabled in the browser settings. • Enable caching of static content (static files, images, CSS, etc) for browser client. • Cookies should be disabled.

2.4 Preinstallation Activities

The following is the preinstallation checklist to ensure the readiness to start installing Oracle Financial Services Analytical Applications:

- Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 must be successfully installed on AIX 5.3/6.1, RHEL 5.3 /5.8, OEL 5.3/5.8 or Sun Solaris 5.10 Server – Oracle 11g R2 (11.2.0.2.0) – Tomcat 7.0.19, Websphere 7.0.0.17, and Web logic 10.3.5.0– 64 bit environment.

  NOTE:

  Refer the *Appendix B section in the OFSAAI 7.3.3.0.0 Installation Guide* for customized memory settings for model upload, depending on the available hardware configuration. For guidance in altering the memory settings contact Oracle Support.

- If the infrastructure is installed on a multitier environment, then execute the following commands in the DB Layer terminal:
  - chmod -R 777 < ftpshare folder >
- Navigate to the ftpshare folder and set the umask shown as follows to ensure that all the new files created have 666 file permissions.
  - cd < ftpshare folder >
  - umask 0000
- The config and atomic schema should be of two distinct oracle database users.
- Default and Temporary table space assigned to atomic schema user should be allocated with required space.

- The Information Domain schema makes use of the tables from the configuration schema. To create a new infodom, execute the file **"<Infrastructure Database Layer Install Directory>/config_table_privileges_for_atomic_user.sql**" from the Infrastructure config database before creating the new infodom.

  NOTE:

  Ensure that FIC Server is up before executing the file

- Add an Atomic schema TNS entry to TNSNames.ora.
- The following grants must be given to atomic schema user:
  - grant create session to <<ATOMIC_USER>>
  - grant create view to <<ATOMIC_USER>>
  - grant create sequence to <<ATOMIC_USER>>
  - grant create table to <<ATOMIC_USER>>
  - grant create procedure to <<ATOMIC_USER>>
  - grant create any index to <<ATOMIC_USER>>
  - grant create trigger to <<ATOMIC_USER>>
  - grant create synonym to <<ATOMIC_USER>>
  - grant debug connect session to <<ATOMIC_USER>>
  - grant debug any procedure to <<ATOMIC_USER>>
  - grant create any materialized view to <<ATOMIC_USER>>
- The following grants must be given from Config User to Atomic User:
  - grant select on PR2_OBJECT_TL to <<ATOMIC_USER>>
  - grant select on PR2_OBJECT_TYPES to <<ATOMIC_USER>>
  - grant select on CSSMS_USR_PROFILE to <<ATOMIC_USER>>
  - grant select on CSSMS_ROLE_MAST to <<ATOMIC_USER>>
  - grant select on CSSMS_GROUP_MAST to <<ATOMIC_USER>>
  - grant select on CSSMS_FUNCTION_MAST to <<ATOMIC_USER>>
  - grant select on CSSMS_USR_GROUP_MAP to <<ATOMIC_USER>>
  - grant select on CSSMS_USR_GROUP_DSN_SEG_MAP to <<ATOMIC_USER>>
  - grant select on CSSMS_ROLE_FUNCTION_MAP to <<ATOMIC_USER>>
  - grant select on CSSMS_GROUP_ROLE_MAP to <<ATOMIC_USER>>
  - grant select on CSSMS_SEGMENT_MAST to <<ATOMIC_USER>>
  - grant select on BATCH_TASK to <<ATOMIC_USER>>
  - grant select on CSSMS_USR_DSN_SEG_MAP to <<ATOMIC_USER>>
  - grant select on CSSMS_USR_ROLE_MAP to <<ATOMIC_USER>>
  - grant select on CSSMS_METADATA_SEGMENT_MAP to

<<ATOMIC_USER>>

- grant select on BATCH_RUN to <<ATOMIC_USER>>
- grant select on PR2_FILTERS to <<ATOMIC_USER>>
- grant select on PR2_TASK_FILTER to <<ATOMIC_USER>>
- grant select on PR2_TASK_FILTER_DETAIL to <<ATOMIC_USER>>
- grant select on ST_STRESS_MASTER to <<ATOMIC_USER>>
- grant select on ST_SCENARIO_MASTER to <<ATOMIC_USER>>
- grant select on ST_SHOCK_MASTER to <<ATOMIC_USER>>
- grant select on BATCH_MASTER to <<ATOMIC_USER>>
- grant select on ICC_MESSAGELOG to <<ATOMIC_USER>>
- grant select on PR2_MASTER to <<ATOMIC_USER>>
- grant select on PR2_RUN_REQUEST to <<ATOMIC_USER>>
- grant select on pr2_rule_map to <<ATOMIC_USER>>
- grant select on pr2_rule_map_pr to <<ATOMIC_USER>>
- grant select on pr2_rule_map_pr_tmp to <<ATOMIC_USER>>
- grant select on pr2_rule_map_exclude to <<ATOMIC_USER>>
- grant select on pr2_rule_map_exclude_pr to <<ATOMIC_USER>>
- grant select on pr2_rule_map_exclude_pr_tmp to <<ATOMIC_USER>>
- grant select on pr2_run_object to <<ATOMIC_USER>>
- grant select on pr2_run_object_member to <<ATOMIC_USER>>
- grant select on pr2_run_map to <<ATOMIC_USER>>
- grant select on pr2_run_execution_b to <<ATOMIC_USER>>
- grant select on pr2_run_execution_filter to <<ATOMIC_USER>>
- grant select on pr2_firerun_filter to <<ATOMIC_USER>>
- grant select on pr2_filters to <<ATOMIC_USER>>
- grant select on configuration to <<ATOMIC_USER>>
- grant select on batch_parameter to <<ATOMIC_USER>>
- grant select on component_master to <<ATOMIC_USER>>
- grant select on FORMS_LOCALE_MASTER to <<ATOMIC_USER>>
- grant select on setupinfo to <<ATOMIC_USER>>
- grant select on LOCALEREPOSITORY to <<ATOMIC_USER>>

- Copy all the contents of the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 installer download directory to the server location (including the DataModel directory). Provide read, write and execute permission to all the files present in this directory.
- Specify the log file path and name in the log4j.xml. Update the value attribute highlighted

in the following xml:

```
<?xml version="1.0" encoding="UTF-8" ?>
<log4j:configuration
xmlns:log4j="http://jakarta.apache.org/log4j/">
<appender name="ConfigReveleusFileAppender"
class="org.apache.log4j.RollingFileAppender">
 <param name="file" value="/<installer components copied
directory>/installer.log"/>
 <param name="Append" value="true"/>
```

- Ensure the path given in the log4j.xml file has read, write or execute permission.
- Ensure FICServer is up and running before proceeding for installation.
- From SYS DBA grant select permission to config and atomic user for 'V_$PARAMETER' table.
    - grant select on V_$PARAMETER to &config_db_user;
    - grant select on V_$PARAMETER to &atomic_db_user;
- Check for `"export LDR_CNTRL=MAXDATA=0x40000000"` in the .profile, if present then comment and execute the .profile then trigger the Setup.sh.
- Following data model related information needs to be addressed, if any OFSAA application is installed on the existing infodom where already other OFSAA applications are installed.
    - o You have the option either to do an incremental or a sliced model upload.
    - o If you opt for sliced model upload then, you need to ensure that all the related child tables are part of the sliced model. If not, you need to merge the data model of application which needs to be installed with the data model available in the environment, take a slice out of it and use.
    - o If you opt for incremental model upload, then you need to merge the data model of application which needs to be installed with the data model available in the environment.
- For a multitier installation, check if **Reveleus.SEC** file is present in **$FIC_HOME/conf in web layer**. If this file is not present in this path, then copy the file from **$FIC_HOME/conf in app layer** to **$FIC_HOME/conf in web layer**.
- For a single tier installation, the installer is required to be loaded only once on the machine that hosts all the OFSAAI tiers.

Note:

This release of OFS Liquidity Risk Management does not support installation of the application on more than one Information Domain within the same OFSAA setup.

2.5 Pre-Upgrade Activities

This section is applicable only for users upgrading from Liquidity Risk Management version 2.0.1.0.0 or 2.0.1.1.0 to OFS Liquidity Risk Management version 2.0.2.0.0.

Back-up of Database schema and Files

- Back-up the existing config and atomic schema of the information domain that is upgraded. This can be used to restore the application in case of any failures during upgrade.
- Back-up FTPSHARE, $FIC_HOME and FIC_WEB_HOME webroot folders of the existing environment.

Pre-Model steps:

The pre-model steps are executed by the installer if the model upload is done through the installer. If the model upload is done outside the installer then the following scripts must be executed in the Atomic Schema before the model upload.

pre_model_scripts_202.sql

Installer will ignore the ORA errors specific to “table already exists” and “table or view doesn’t exist” while executing the Pre-Model Scripts.

Post-Model steps:

The post-model steps are executed by the installer if the model upload is done through installer. If the model upload is done outside the installer then the following scripts must be executed in the Atomic Schema after the model upload.

post_model_scripts_202.sql

Note:

The Pre-Model and Post-Model scripts are generated with reference to LRM 2.0.1 Data Model and out of the box scripts provided. Any customization done like adding data into seeded data entries to the tables mentioned in the Pre-Model scripts will not be handled by the Pre-Model and Post-Model scripts.

Upgrade from OFS Liquidity Risk Management Release 2.0.1.0.0 or 2.0.1.1.0

The following steps are applicable for customers upgrading from OFS Liquidity Risk Management Release version 2.0.1.0.0 or 2.0.1.1.0. You need to perform these steps before proceeding with installation.

The below scripts have to be executed in Config Schema:

```
ALTER TABLE PR2_RULE_MAP DISABLE CONSTRAINT FK_PR2_RULE_MAP_1
/
ALTER TABLE PR2_RULE_OBJECT DISABLE CONSTRAINT
FK_PR2_RULE_OBJECT_1
/
ALTER TABLE PR2_RULE_QUERY DISABLE CONSTRAINT FK_PR2_RULE_QUERY_1
/
ALTER TABLE PR2_RUN_OBJECT DISABLE CONSTRAINT FK_PR2_RUN_OBJECT_1
/
ALTER TABLE PR2_RUN_OBJECT_PARAMETER DISABLE CONSTRAINT
FK_PR2_RUN_OBJECT_PARAMETER_1
/
ALTER TABLE PR2_RUN_OBJECT_MEMBER DISABLE CONSTRAINT
FK_PR2_RUN_OBJECT_MEMBER_1
/
ALTER TABLE PR2_RUN_MAP DISABLE CONSTRAINT FK_PR2_RUN_MAP_1
/
ALTER TABLE PR2_RUN_EXECUTION_B DISABLE CONSTRAINT
FK_PR2_RUN_EXECUTION_B_1
/
```

T2T changes
The existing T2Ts will be replaced during upgrade installation. Hence, take a backup of existing T2Ts.

The T2T definitions are present in the following folders:
<FTPSHARE_PATH>/STAGE
<FTPSHARE_PATH>/<INFODOM>/erwin/Sources

If any customizations were done on the earlier T2T's, then it needs to be done again on these T2T definitions.

Data Model Changes

If Data model is not customized, following steps will be done by the upgrade installer:

1) OFS Liquidity Risk Management version 2.0.2.0.0 sliced data model is uploaded in “Sliced Model Upload” mode.

2) Execute the Config and atomic scripts.

3) Replace XMLs, executables and other components

If Data Model is customized, then it is suggested to:

1. Open customized and out of box models using ERwin Data Modeler tool.

2. Go to "**Tools**" and select "**Complete Compare**".

3. Select the existing LRM Data model on Left Model, in the Compare window.

4. Select the extracted LRM Data model on Right Model.

5. In "**Type Selection**" check "**Subject Area**".

6. In "**Advanced**" option, un-check ALL except "**Auto Close Database/Script Models**" and click “**Compare**”.

7. Resolve differences by applying all the changes mentioned in the LRM_DataModel Difference v2.0.1-v2.0.2.xls file.

8. Click "**Finish**" and click “**Close**”.

9. Save the file as XML in "**AllFusion Repository Format**".

   Example: LRM_DataModel.xml

   The LRM Data Model difference between 2.1.0 and 2.0.2 is given below:

LRM_DataModel Difference v2.0.1-v2.

2.6 Key considerations to upgrade in a customized environment:

1) As part of pre-model scripts, if there is any column dropped in the new out of box model, the associated metadata will be deleted.

2) In cases of addition to primary key / not null column additions, data of the tables will be backed up and deleted.

3) As a part of upgrade process, if there is a change in out of box metadata / rule, it will be overwritten. If there are any customization done on top the out of box metadata / rule, changes will be lost during the upgrade

4) As part of upgrade process, any T2T modified in the new version, will over write the T2T xmls available in the T2T source. So, any customization done will be lost.

5) If there was any addition / change in the out of box seeded data, which clashes with the primary key of the new version, there will be conflict of the data due to unique constraints. This may lead to the application not working properly.

6) All DB objects modified will be over written with the new code. Any customization will be lost.

7) As part of data migration, only the columns which are available as part of the out of box data model will be migrated. Others will not be restored.

3. Installing the Analytical Application

3.1 ALM - LRM Integration

If user wants to use OFS ALM generated cash flows for LRM processing, then LRM provides set of batches to populate OFS ALM generated cash flows into LRM processing tables.

The ALM - LRM integration is installed only if OFS ALM v6.1.1.0.0 already installed in the infodom where LRM is being installed.

3.2 OFS Liquidity Risk Management Release 2.0.2.0.0 Installation

The Oracle Financial Services Analytical Applications Infrastructure comprises of components that are installed in Web, Application and Database layer. Hence, if you have installed Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 in a multitier architecture, the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 installer must be loaded on each of the machines that host the Oracle Financial Services Analytical Applications Infrastructure tier.

For a single tier installation, the installer is required to be loaded only once on the machine that hosts all the Oracle Financial Services Analytical Applications Infrastructure tiers.

This section describes the installation process in which the three product setup components with the product are installed on separate machines as follows:

Machine A is used to install the product Application Layer components

Machine B is used to install product Database Layer components

Machine C is used to install product Web Layer components

NOTE:

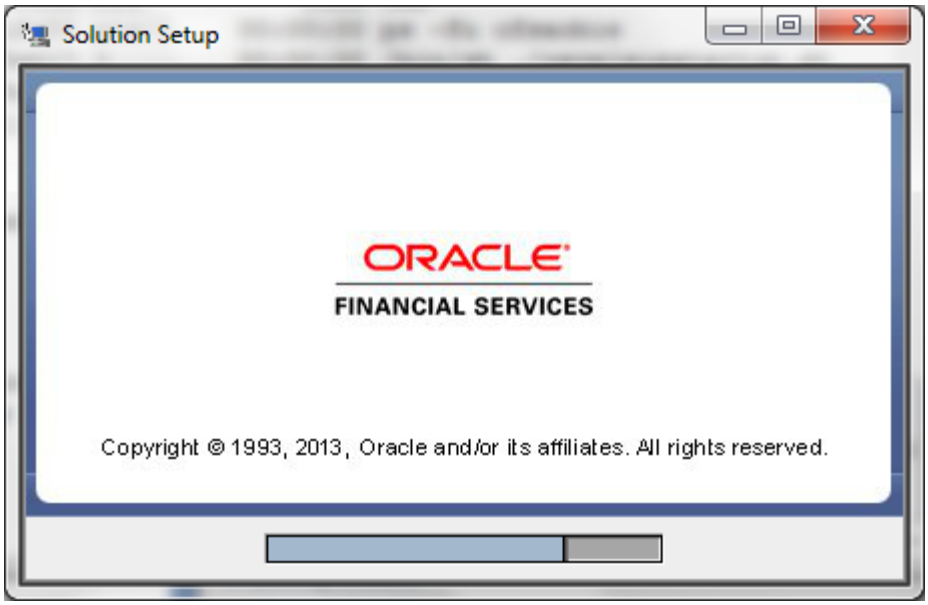
This section holds applicable if Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 is installed on AIX 5.3/6.1, RHEL 5.3 /5.8, OEL 5.3/5.8 or Sun Solaris 5.10 server - Oracle 11g on separate machines A, B and C respectively.

For Silent Installation, refer to the section Silent Installation.

3.2.1 Machine A – Product Application Layer

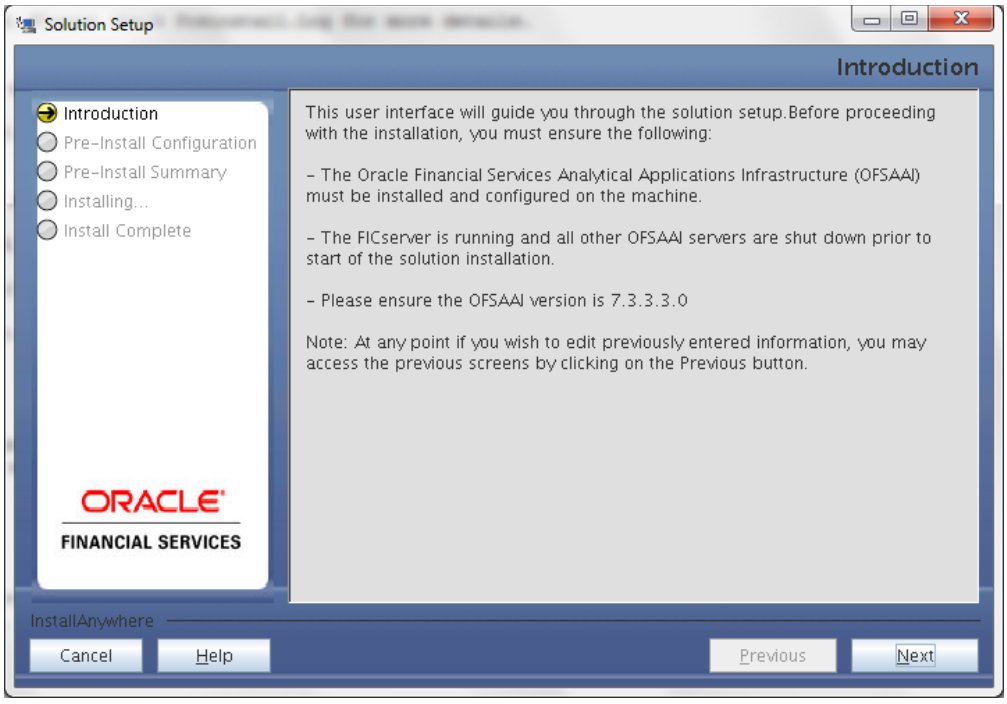
Step 1

To begin with the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 installation, execute **Setup.sh** with the parameter GUI (GUI Installation) or SILENT (for Silent installation).



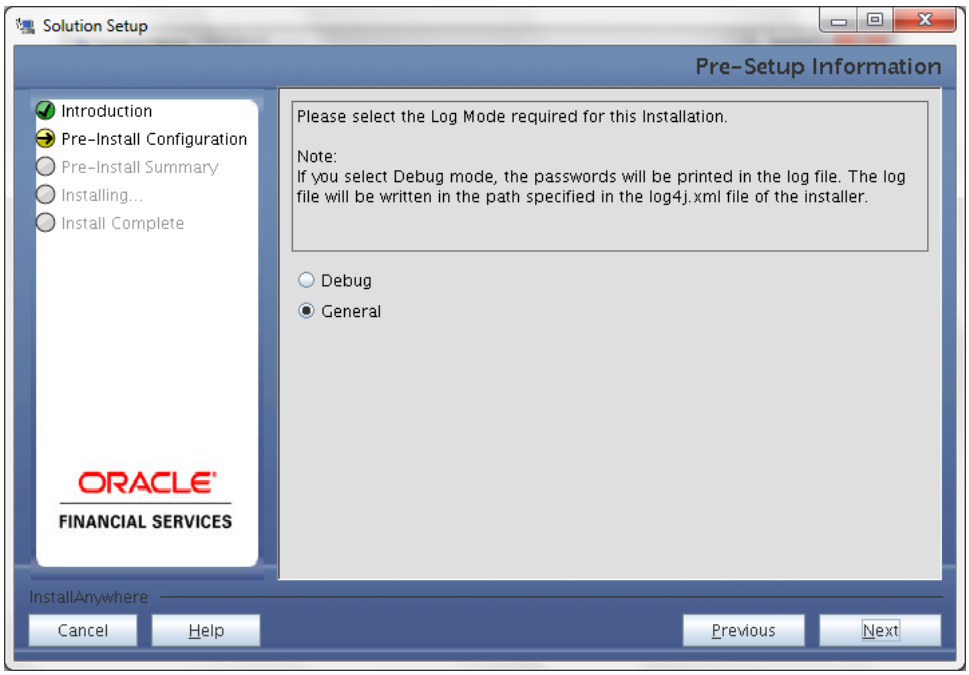
Step 2

Upon loading the installer, the **Introduction** screen displays the prerequisites for installation. Ensure that these prerequisites are met before proceeding.



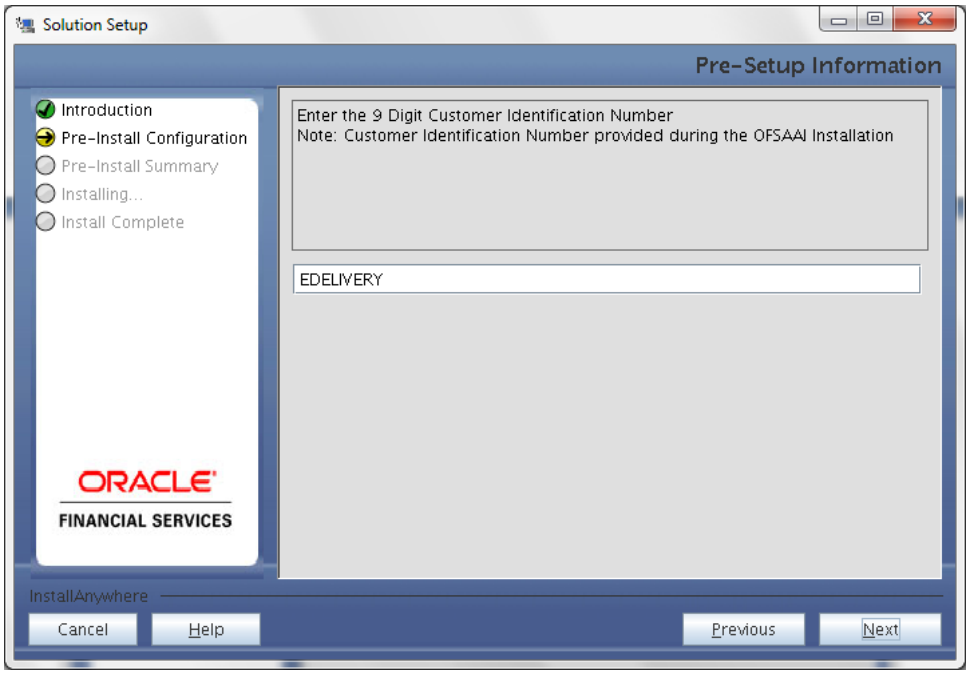
Step 3

Choose the log mode for this installer. The **Debug** and **General** mode information will be printed in the log file specified in the log4j.xml file of the installer.



Step 4

Enter the 9 digit Customer Identification Number provided during the OFSAAI installation.



Click **Next** to continue.

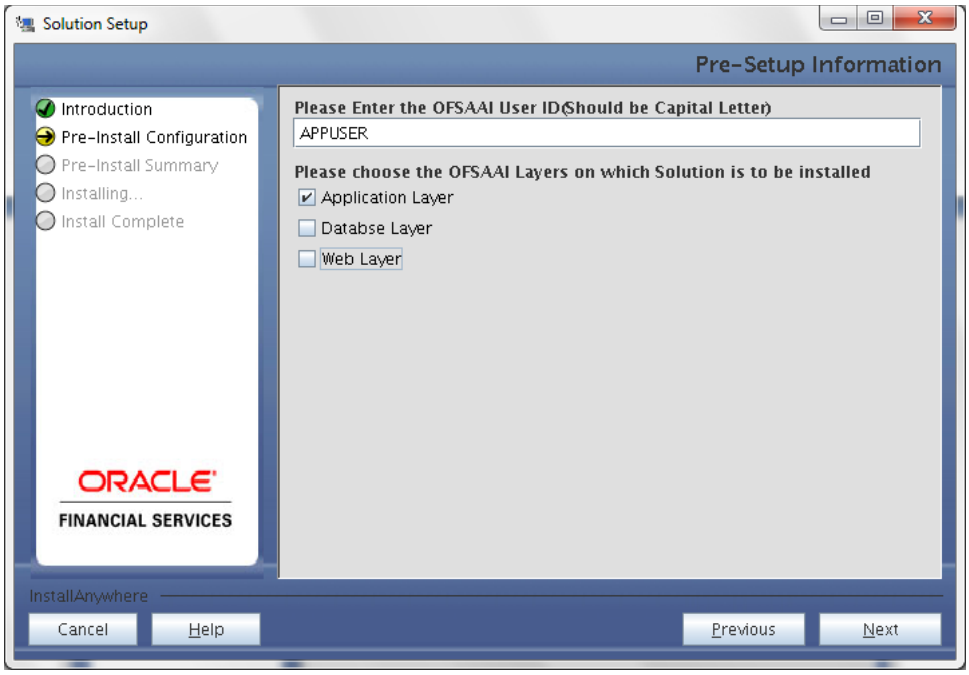
Step 5

The **Pre Setup Information** screen requests for setup information.

Enter the OFSAAI User ID.

Select the appropriate Oracle Financial Services Analytical Applications Infrastructure layer that has been installed on the machine.

Example: **Application Layer**

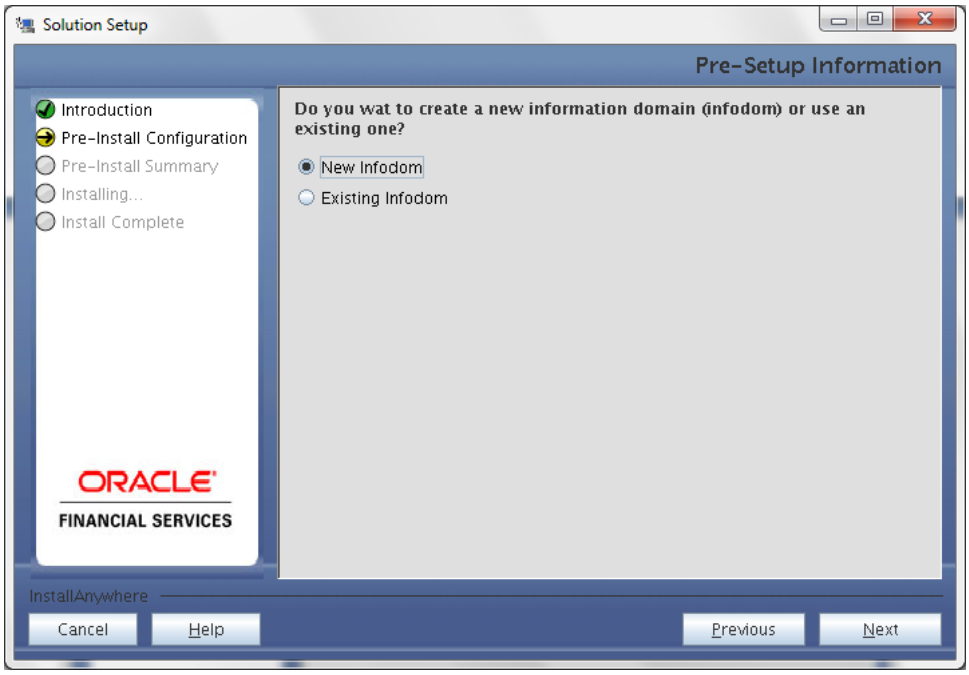


NOTE:

- For a single-tier Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 installation, you must select Application Layer, Database Layer and Web layer.
- For a multitier Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 installation, select the corresponding layer installed on the machine.

Step 6

This screen prompt seeks infromation on whether a new infodom has to be created or the existing infodom to be used for installation. Choose the desired option.



Click **Next** to continue. If **New Infodom** is selected then go to **Step 7** or else go to **Step 8**.

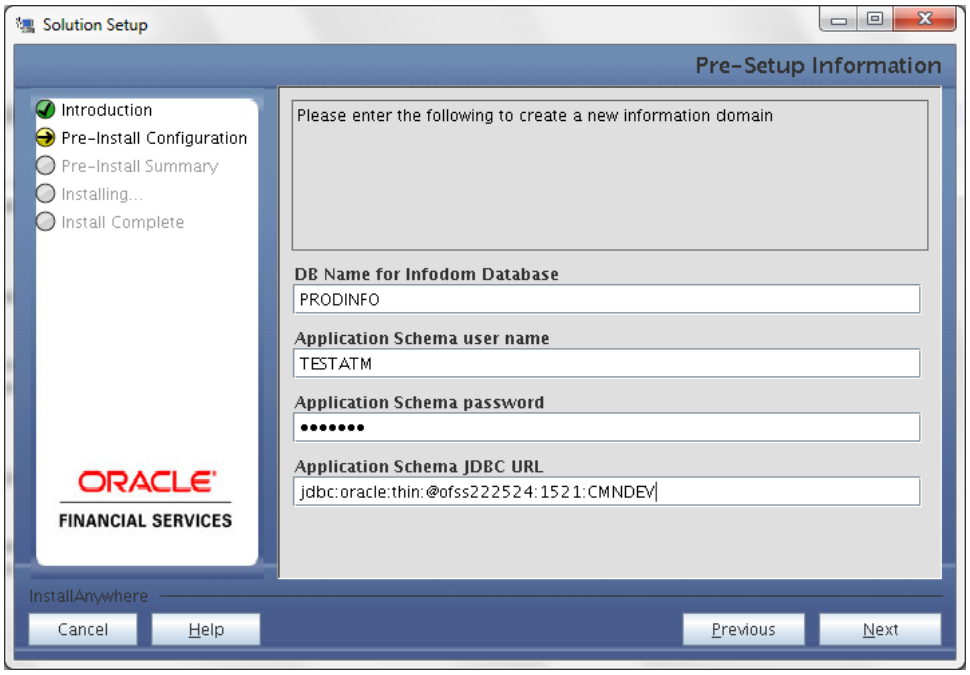
Step 7

If the option **New Infodom** is chosen then update the following to create infodom:

Step 7-i:

- Specify a DB name for the new information domain. Make a TNS entry with the DB name specified in the tnsname.ora file in the oracle server.
- Enter the newly created application schema user name, password and JDBC url in relevant fields.

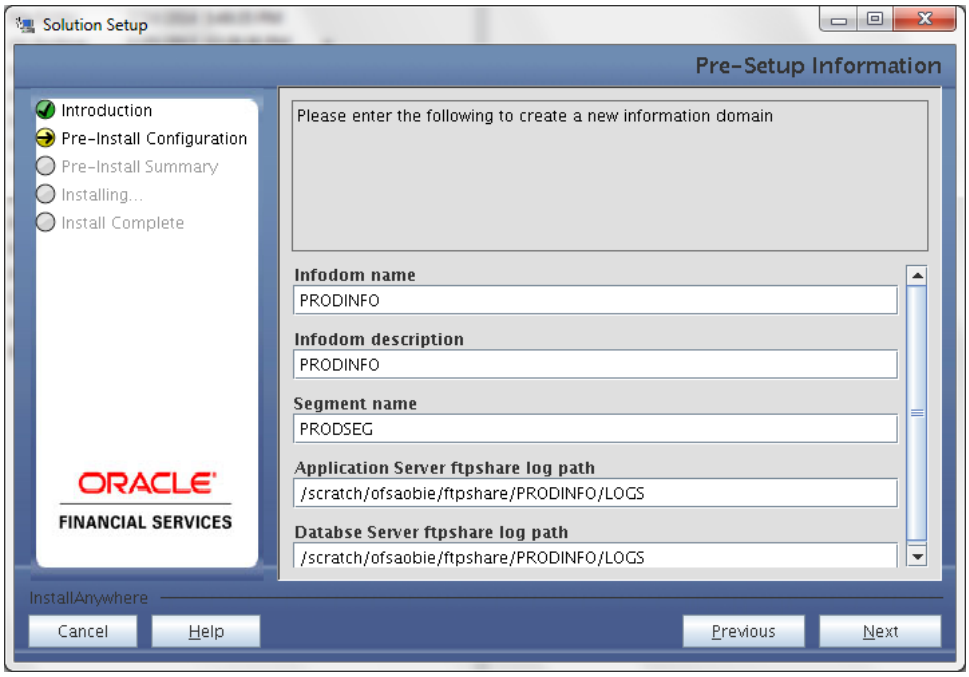
Click **Next** to continue.



Step 7-ii

In the next screen prompt enter the following details:

- Specify the name and description of the new information domain to be created.
- Specify a segment name to be created.
- Specify the application server and database server log path for information domain maintenance (to be created).



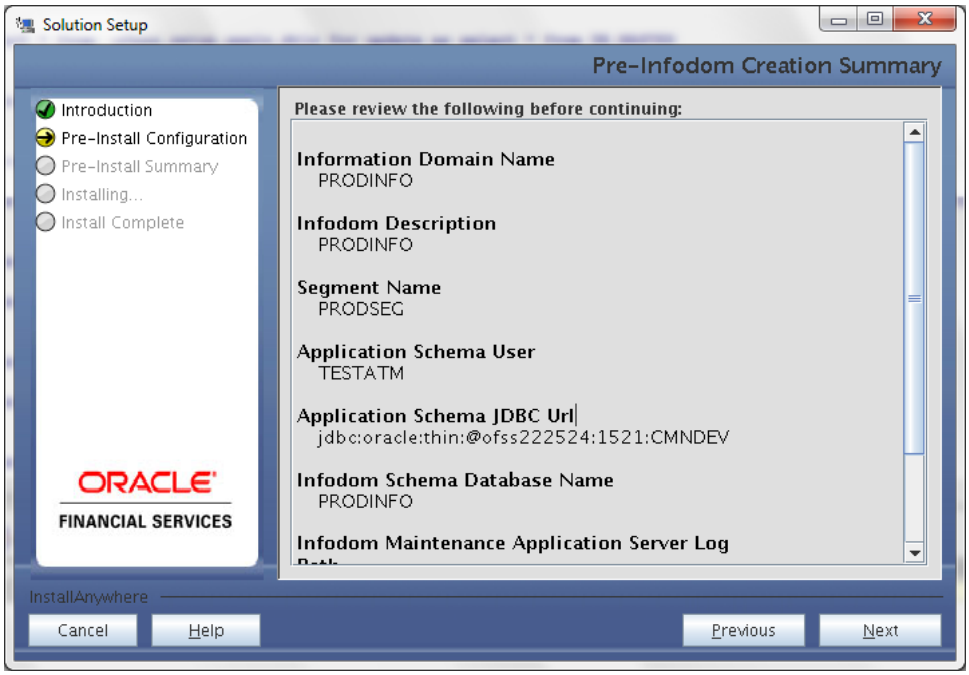
NOTE:

The OFSAAI user must have a role that is able to perform Add/Modify functions for OFS Liquidity Risk Management metadata.

Click **Next** to continue. Check and verify all the details before proceeding to Step 7- iii.

Step 7-iii

Click **Next** to continue with the creation of information domain.

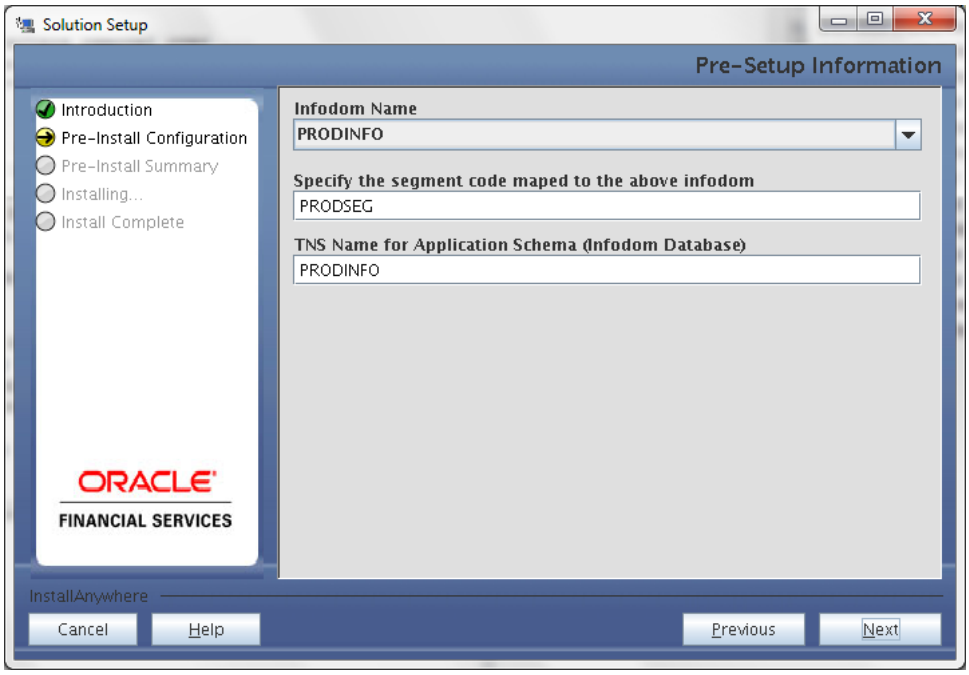


Step 8

If the option **Existing Information Domain** was selected then update the following details in the screen prompt that is displayed:

Step 8-i

- Select the Information Domain name.
- Enter segment code.
- Enter the application schema's TNS name.



Click **Next** to continue.

Step – 9

Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0, data model is packaged as part of the application installer and is installed as a part of the following steps, if required.

In the following screen prompt opt for model upload process through the installer.

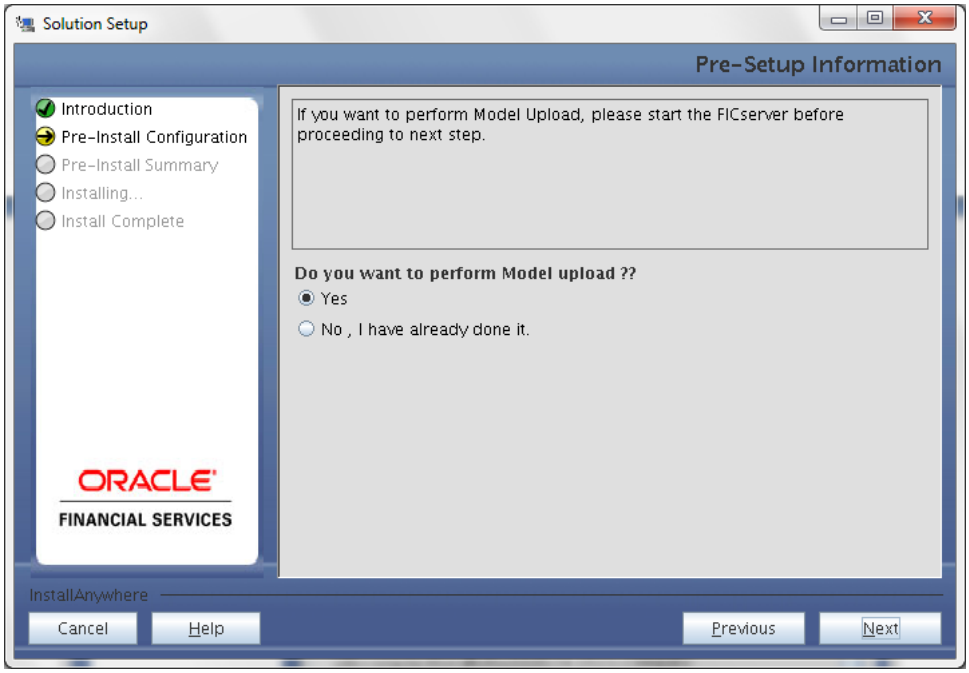


Figure 1: Pre – Setup information

NOTE:

If **Yes** is selected for Data model upload then out of the box LRM data model will be uploaded (file present under DataModel folder will be uploaded).

Clicking **No** implies that the Oracle Financial Services Liquidity Risk Management Release is already uploaded. To proceed with the application model upload process as part of the installation click **Yes**. Click **Next** to proceed.

Step – 10

In the following screen prompt choose whether the released version of the datamodel or the customized datamodel is to be uploaded.

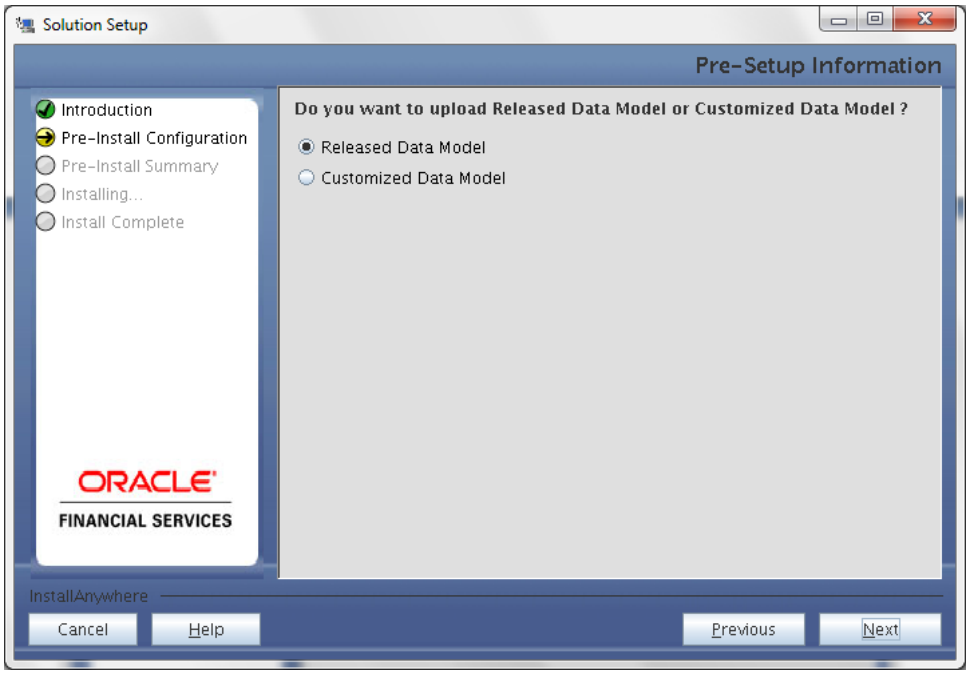


Figure 2: Pre – Setup information

If **Released Data Model** option is selected, then the installer uploads the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0, data model.

If **Customized Data Model** option is selected, then the installer allows you to select the data model. Choose the desired option.

Click **Next** to proceed.

Step – 11

If the **Customized Data Model** is selected then the following screen prompt is displayed where you can select the customized data model located in the machine.

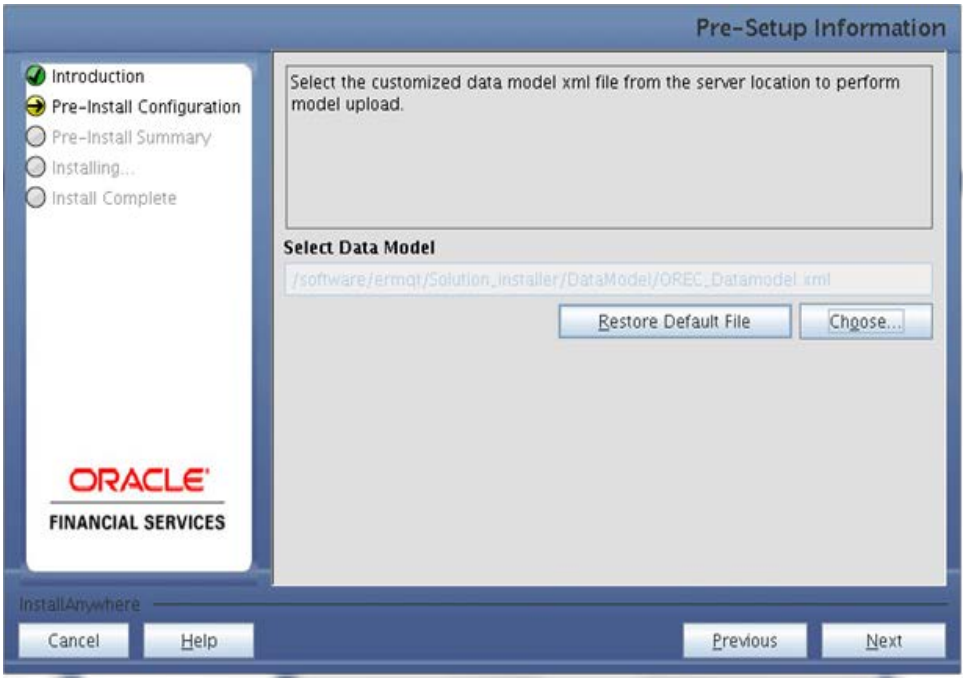


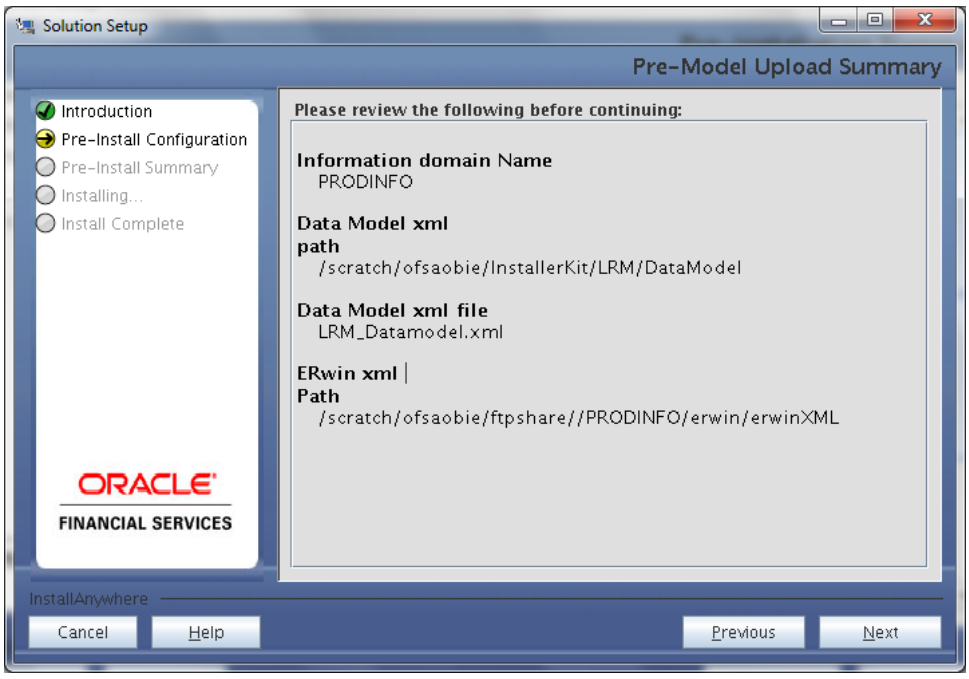
Figure 3: Pre – Setup information

NOTE:

- The data model .XML file should be available in the server. If the installation is being performed on an existing information domain, the data model to be selected in this screen prompt should be merged with the data model that was previously uploaded in the information domain.
- If the installation is performed on a new information domain, data model that is either customized or merged with other data models can be selected in this panel.

Step 12

The following screen prompt displays the premodel upload details:



1. Verify the details before proceeding to the next step.
2. Click **Next** to proceed with model upload.

The time taken for the process of model upload is dependent on the size of the data model and available physical memory in the environment. Till the process is complete, no further action can be taken. In addition, this step cannot be rolled back.

If the model upload fails, then a pop-up message with relevant errors and the log file path is displayed. Review the errors and take relevant action. After resolution, navigate through to the previous screen and proceed with the steps mentioned above.

NOTE:

Some of the common errors are:

- Insufficient heap memory on the client machine.

  Possible reason/resolution:

  The java memory settings mentioned in .profile should be increased.

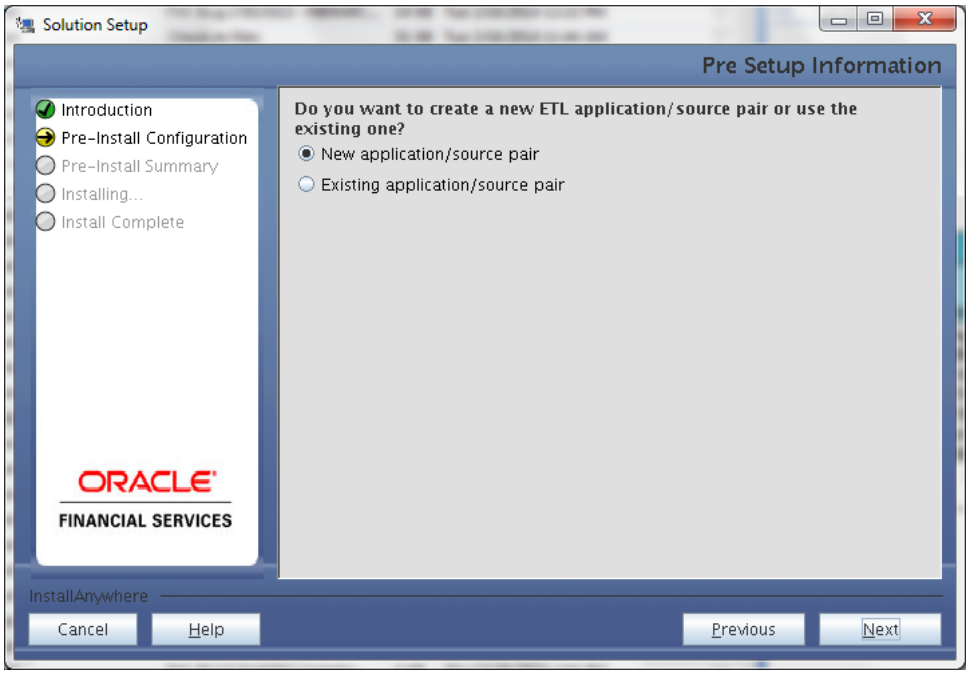
- Error while getting the Erwin File path.

  Possible reason/resolution:

  Restart the FICServer.

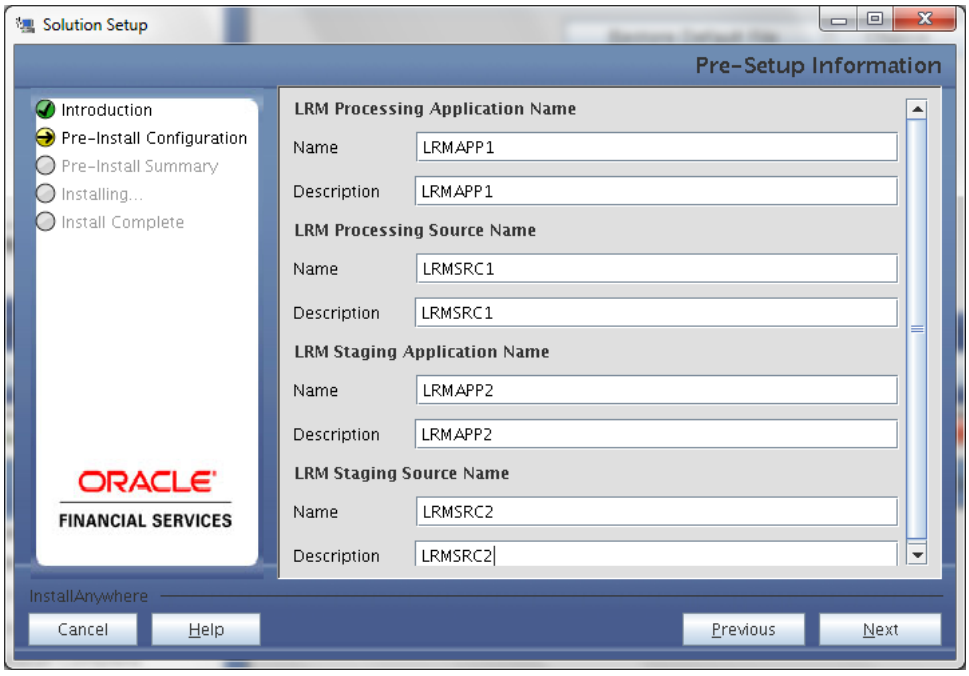
Step 13

In the following screen select New application/source pair or select Existing application/source pair. If the option Existing application/source pair is selected then goto step 14-ii or else goto step 14-i.



Step 14-i

In the next screen specify all the details required for application and source creation. Click **Next** to proceed. Clicking **Next** creates application and source within OFSAAI. Source model will also be generated. This process might take some time to process depending on the number of entities or attributes in the atomic schema. This step cannot be rolled back.



Note:

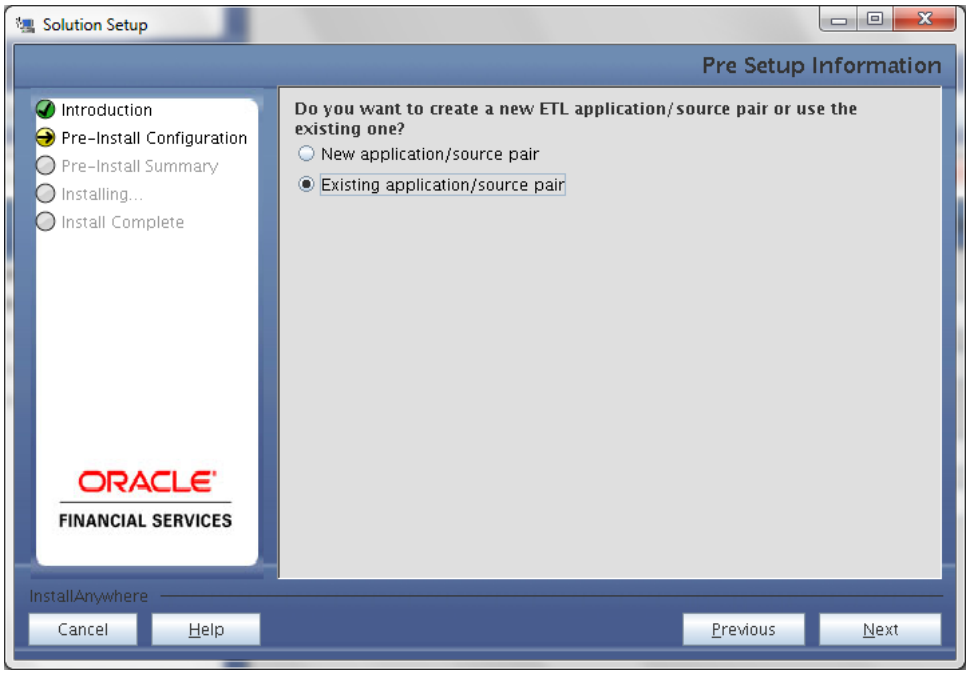
ETL Source will be created pointing to the information domain (atomic schema) that is specified during the installation

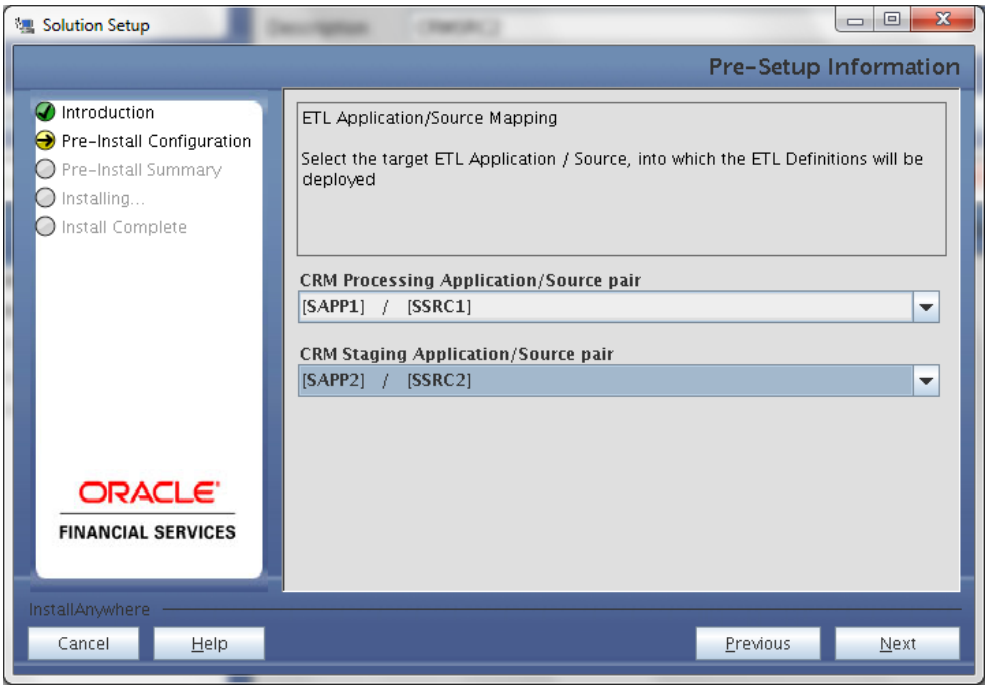
Step 14-ii

If the option “Existing application/source pair” was chosen the following panel willl be displayed prompting user to select app/source pair from the list of pairs already present.

Choose the desired ETL application/source pair into which ETL definitions should be deployed.

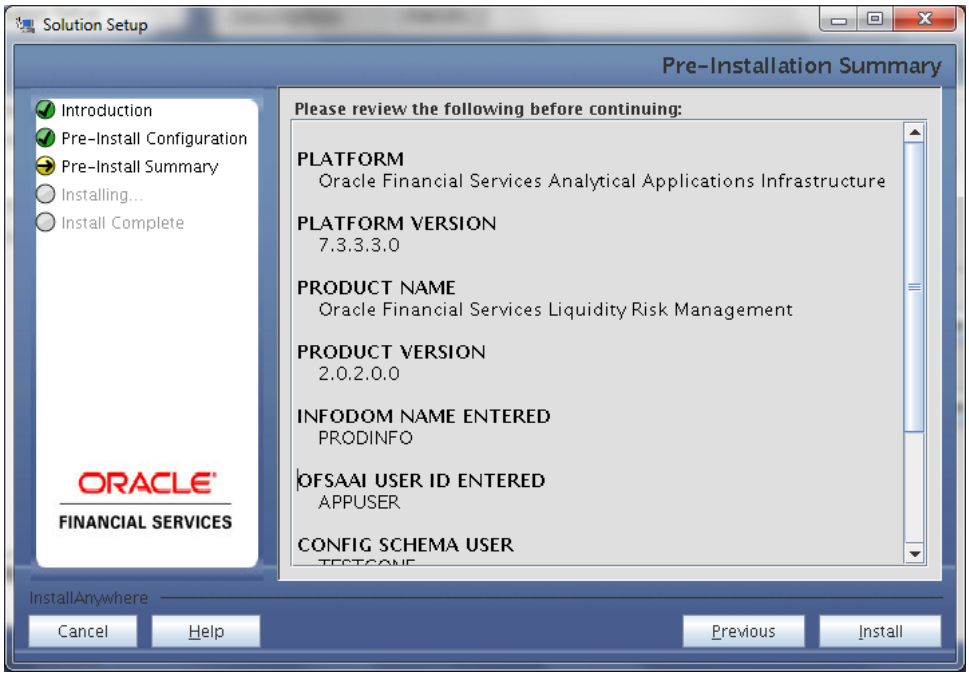
Click **Next** to Process.





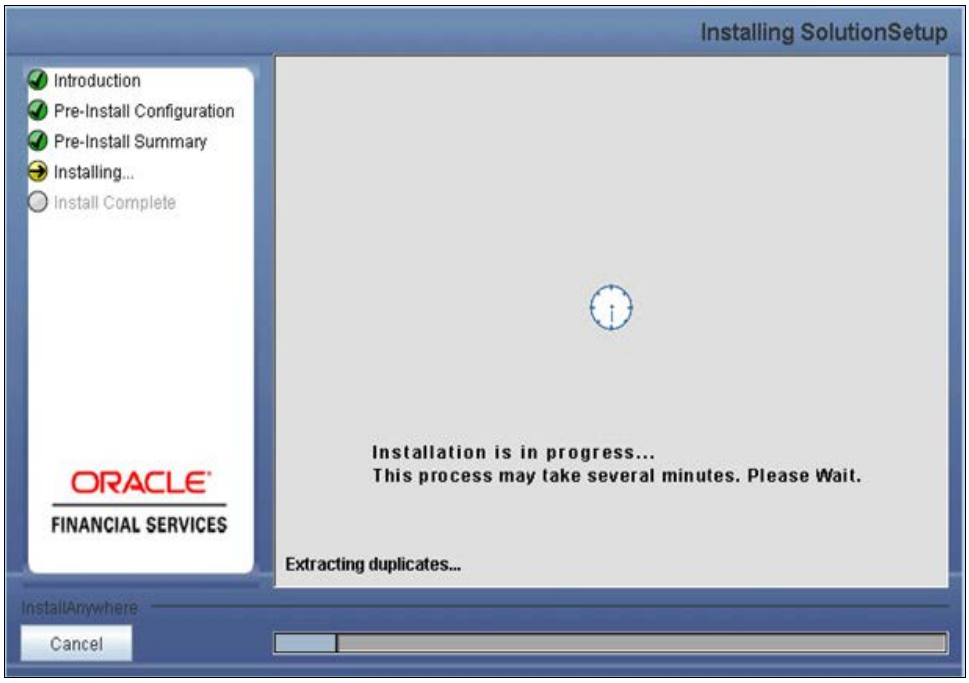
Step 15

This screen prompt displays all the preinstallation summary. Verify all details and click **Install** to proceed.



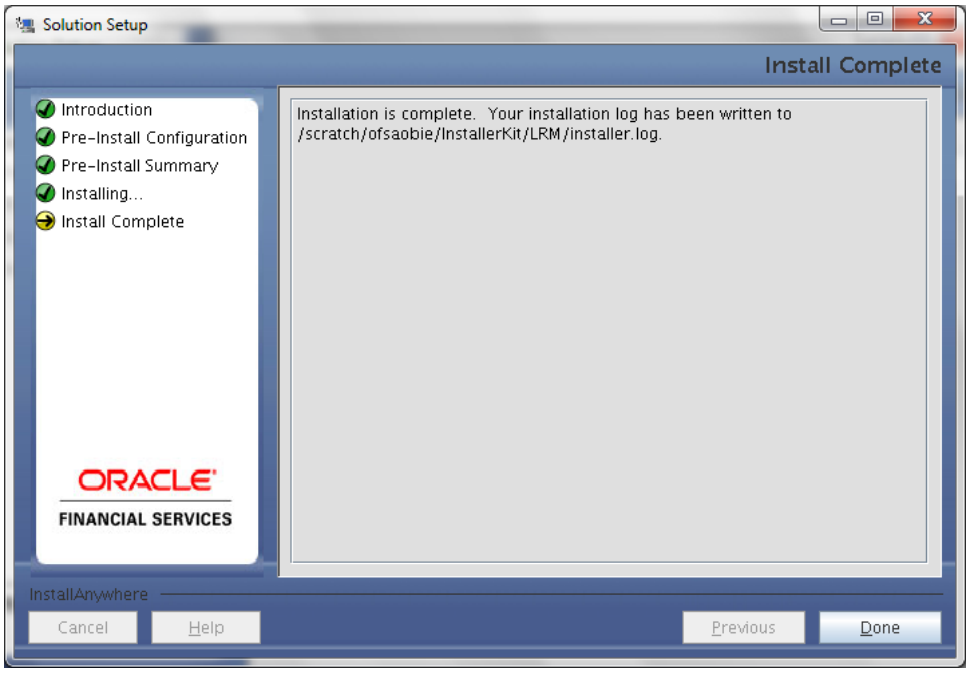
Step 16

This screen prompt displays the installation process. To proceed further, wait for the installation to be completed.



Step 17

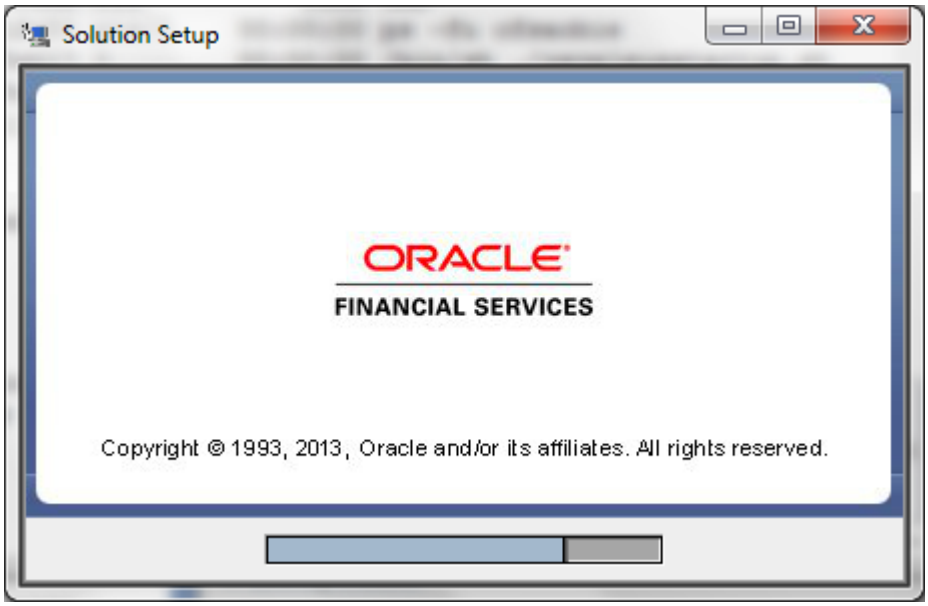
The following screen prompt displays the completion of installation of the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 Setup. Click **Done** to exit.



3.2.2 Machine B – Product Database Layer

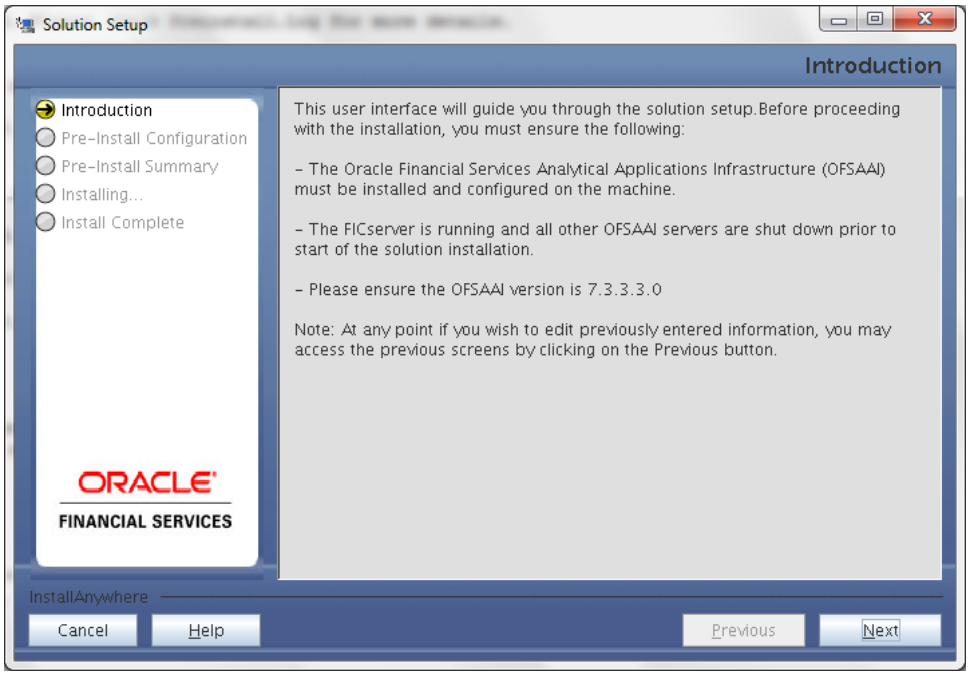
Step 1

To begin with the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 installation, execute **Setup.sh** with the parameter GUI (GUI Installation) or SILENT (for Silent installation).



Step 2

Upon loading the installer, the **Introduction** screen displays the prerequisites for installation. Ensure that these prerequisites are met before you proceed.

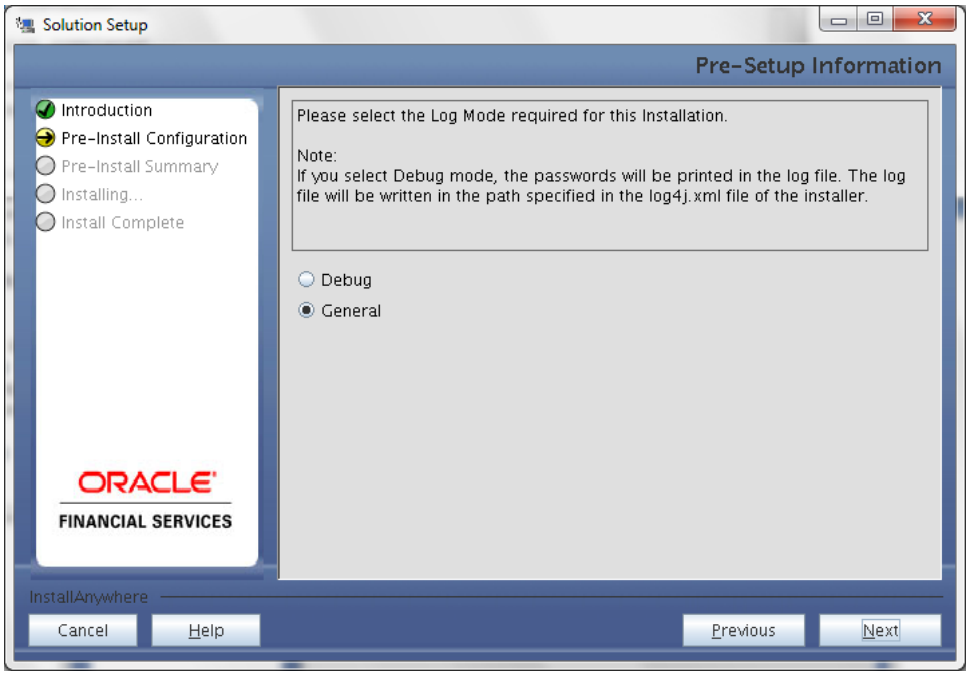


Step 3

Choose the log mode for this installer.

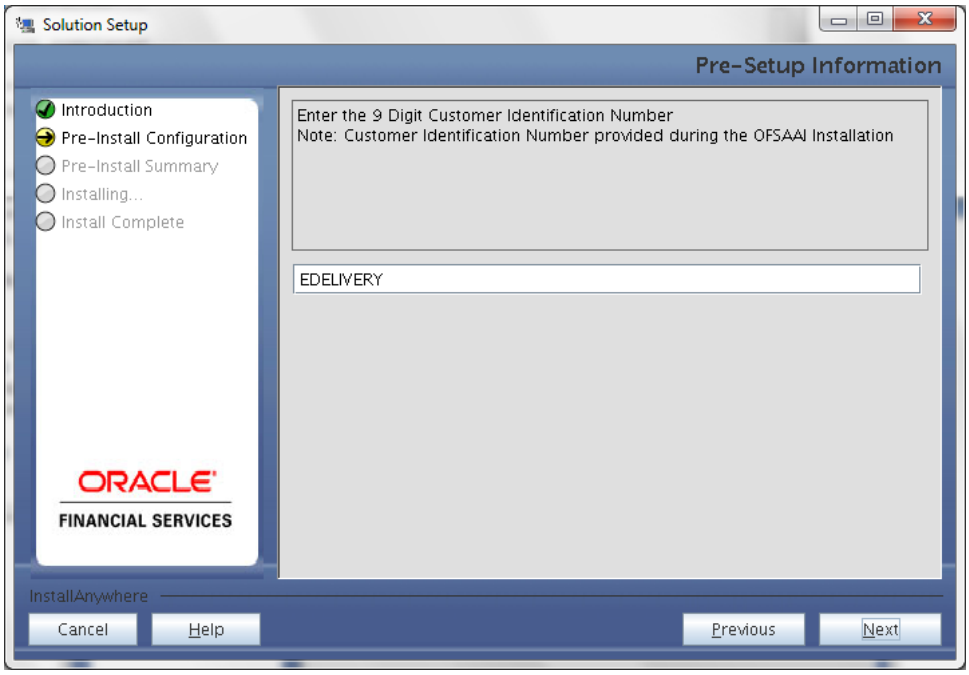
NOTE:

Though stated in the following screenshot, if **Debug** is selected, passwords will not be printed in the log file.



Step 4

Enter the 9 digit Customer Identification number provided during the OFSAAI installation.



Click **Next** to continue.

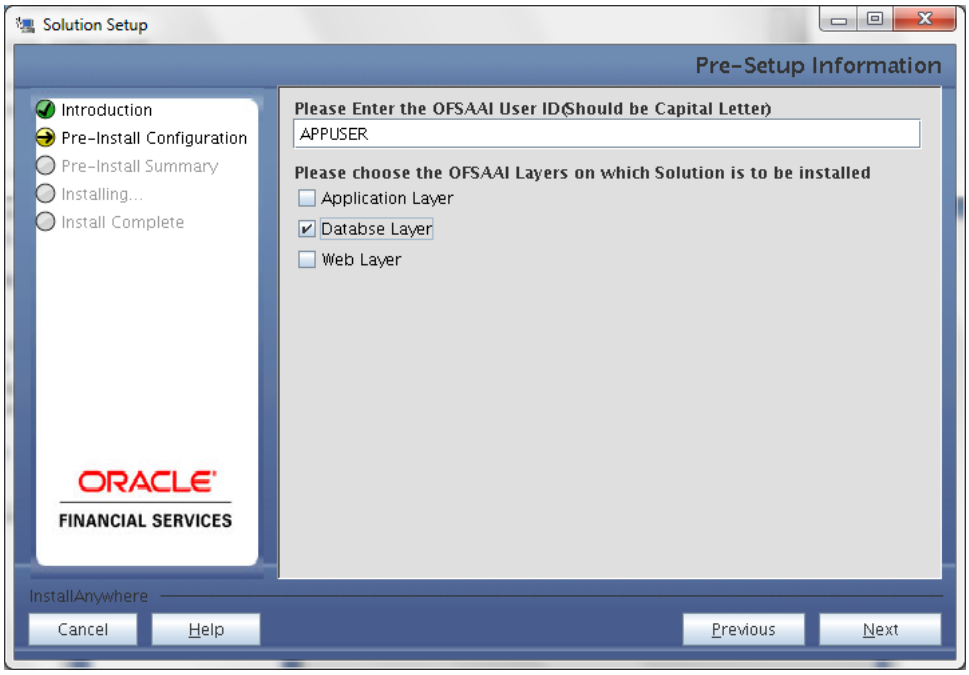
Step 5

The **Pre Setup Information** screen requests for setup information.

Enter the OFSAAI User ID.

Select the appropriate Oracle Financial Services Analytical Applications Infrastructure layer that has been installed on the machine.

Example: **Database Layer**

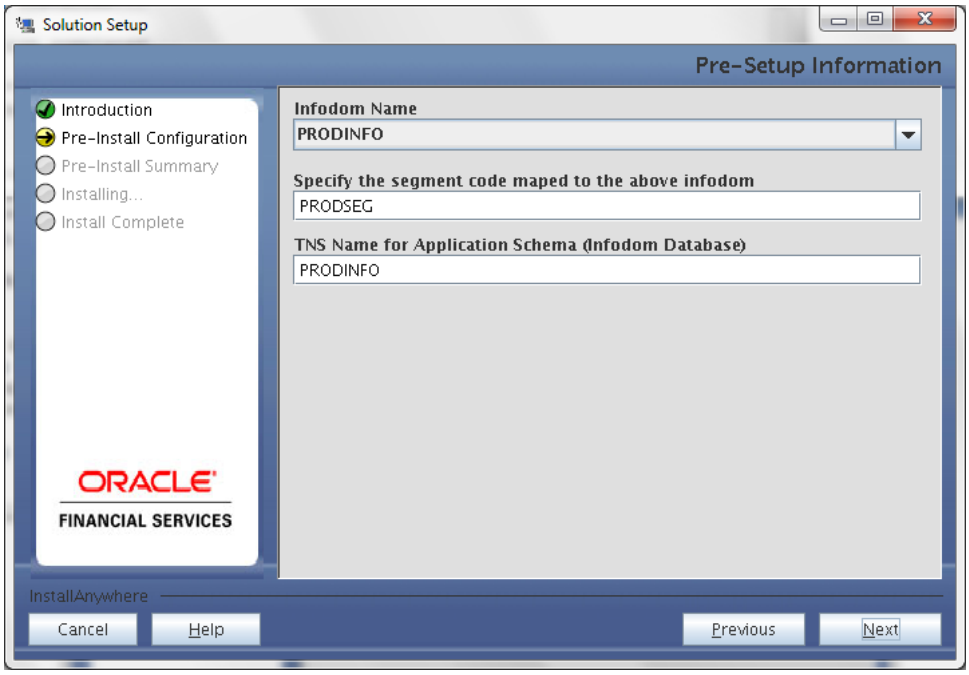


NOTE:

- For a single-tier Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 installation, you must select Application Layer, Database Layer and Web layer.
- For a multitier Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 installation, select the corresponding layer installed on the machine.

Step 6

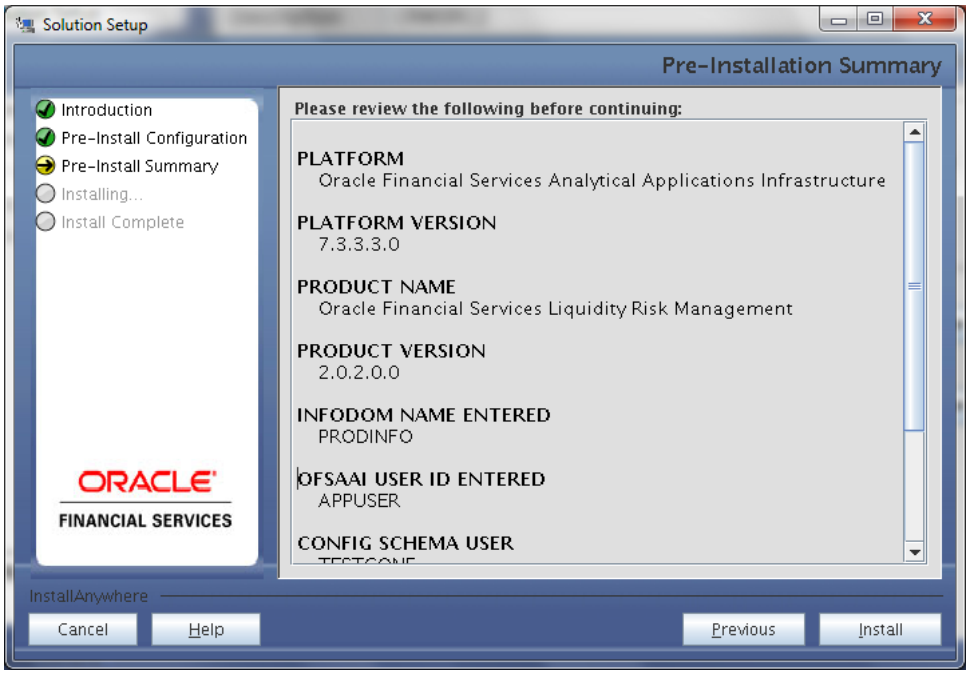
Select the infodom from list of infodoms present in the setup, enter segment code and enter the application schema's TNS name in the following screen prompt.



Step 7

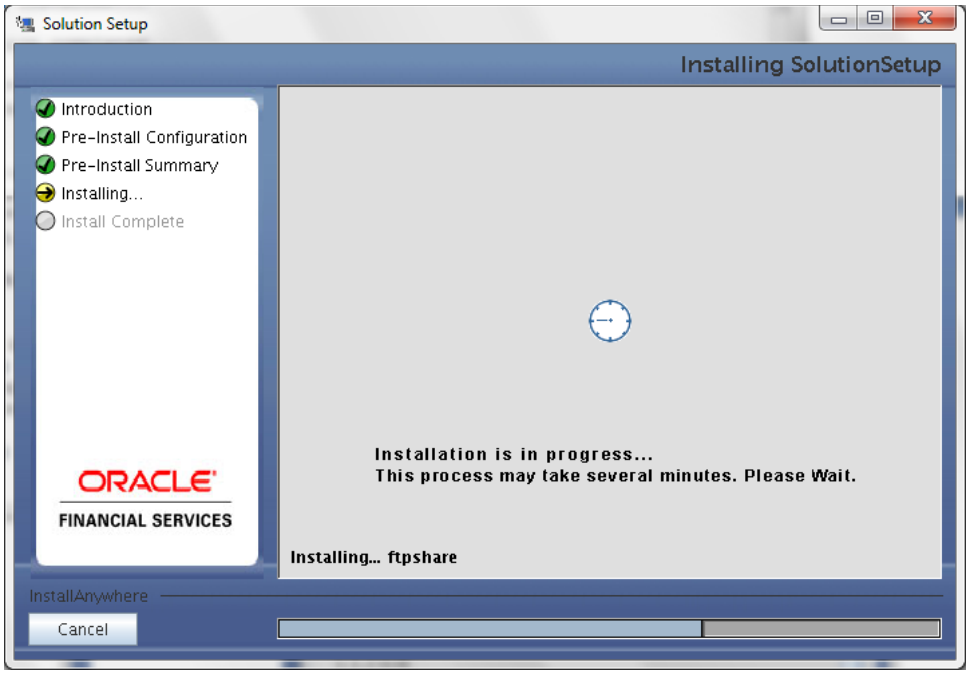
This screen prompt summarizes the preinstallation details. Verify all the details and proceed.

Click **Install** to proceed.



Step 8

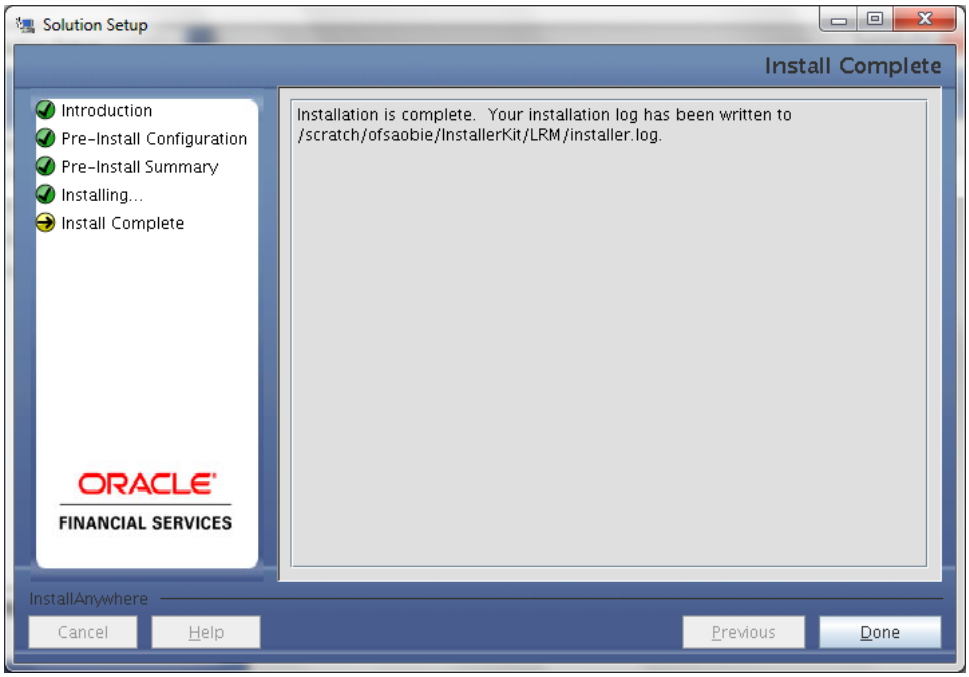
This screen prompt displays the installation process. Wait till the installation is complete.



Step 9

The following screen prompt displays the completion of installation of the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 setup.

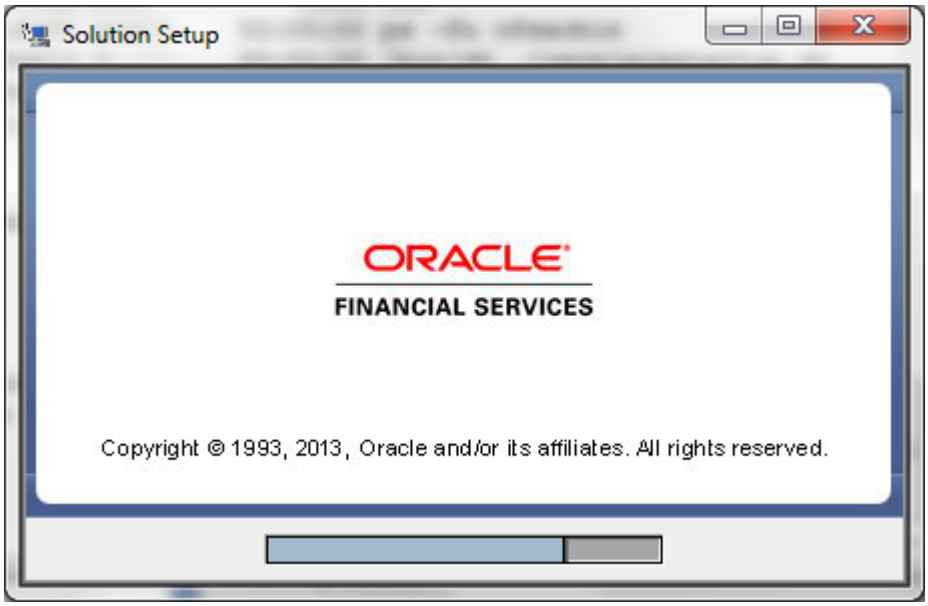
i) Click **Done** to exit.



3.2.3 Machine C – Product Web Layer

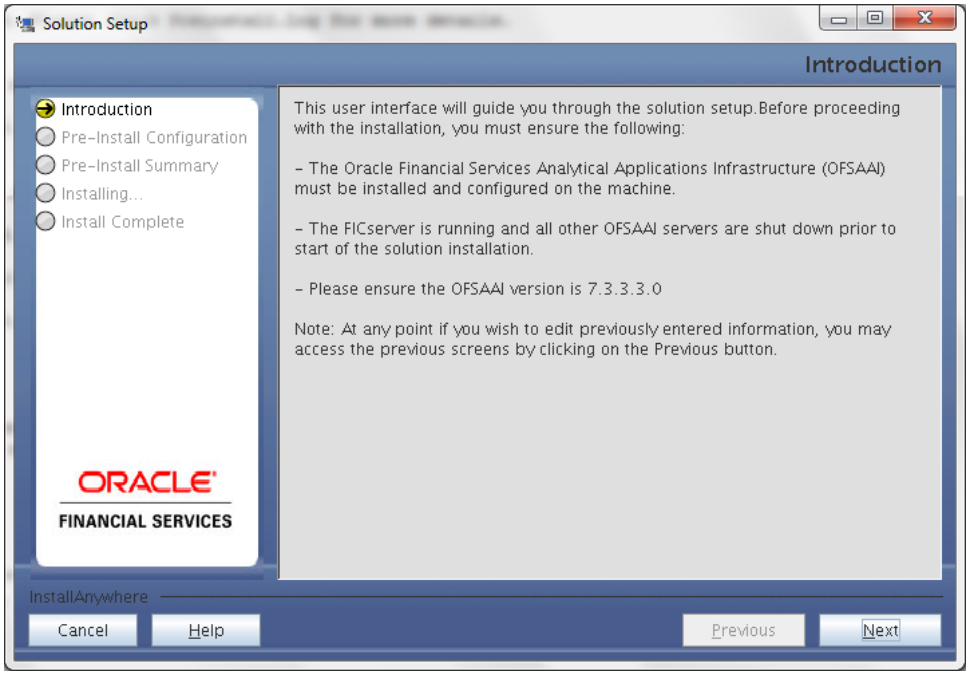
Step 1

To begin with the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 installation, execute **Setup.sh** with the parameter GUI (GUI Installation) or SILENT (for Silent installation).



Step 2

Upon loading the installer, the **Introduction** screen will display the prerequisites for installation. Ensure that these prerequisites are met before you proceed.

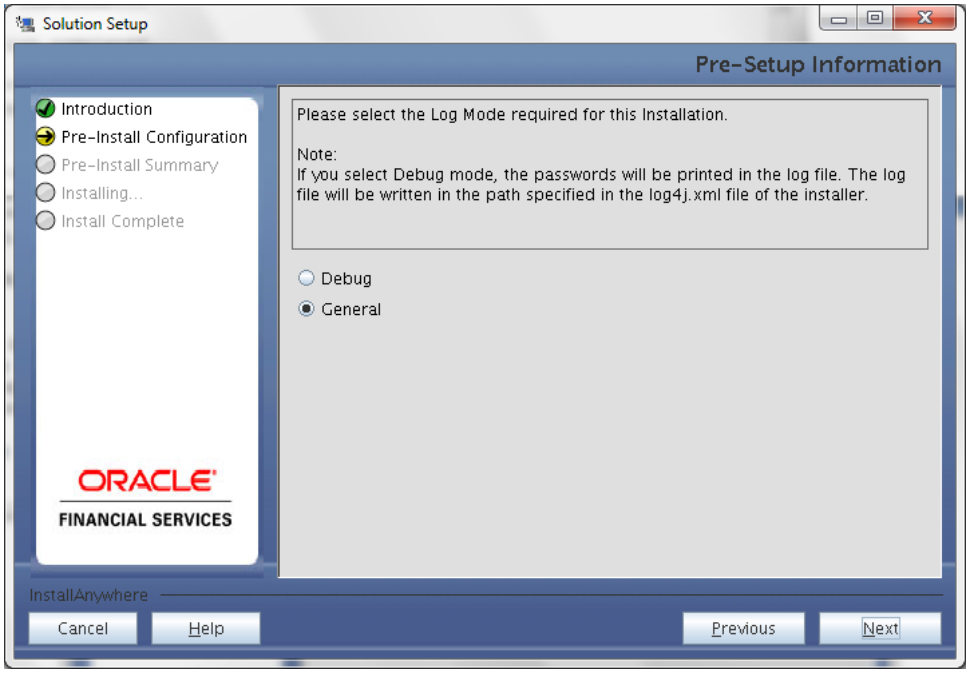


Step 3

Choose the log mode for this installer.

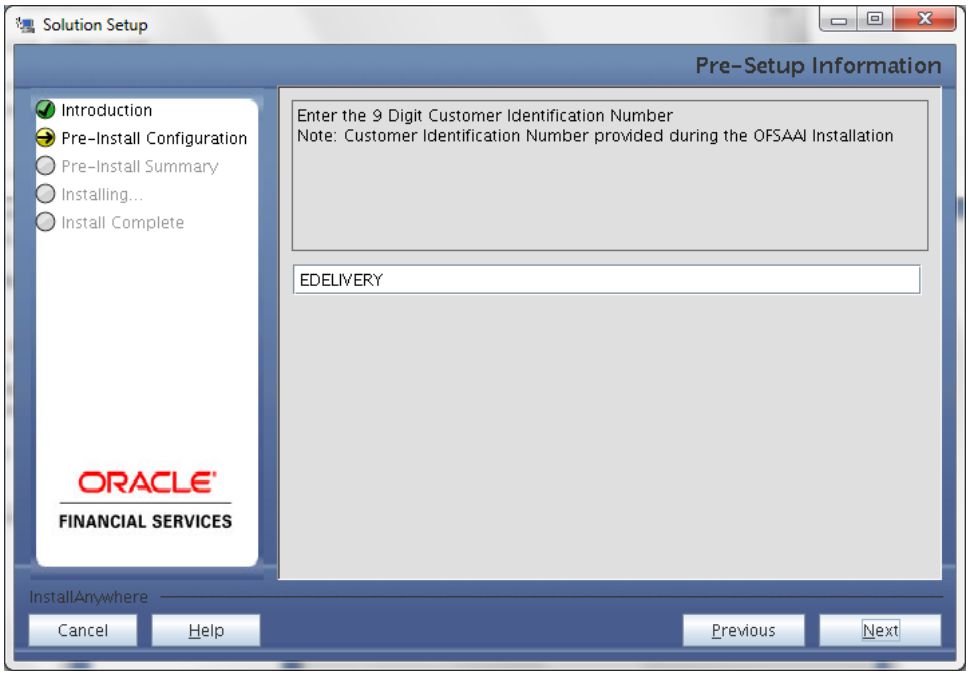
NOTE:

Though stated in the following screenshot, if **Debug** is selected, passwords will not be printed in the log file.



Step 4

Enter the 9 digit Customer Identification number provided during the OFSAAI installation.



Click **Next** to continue.

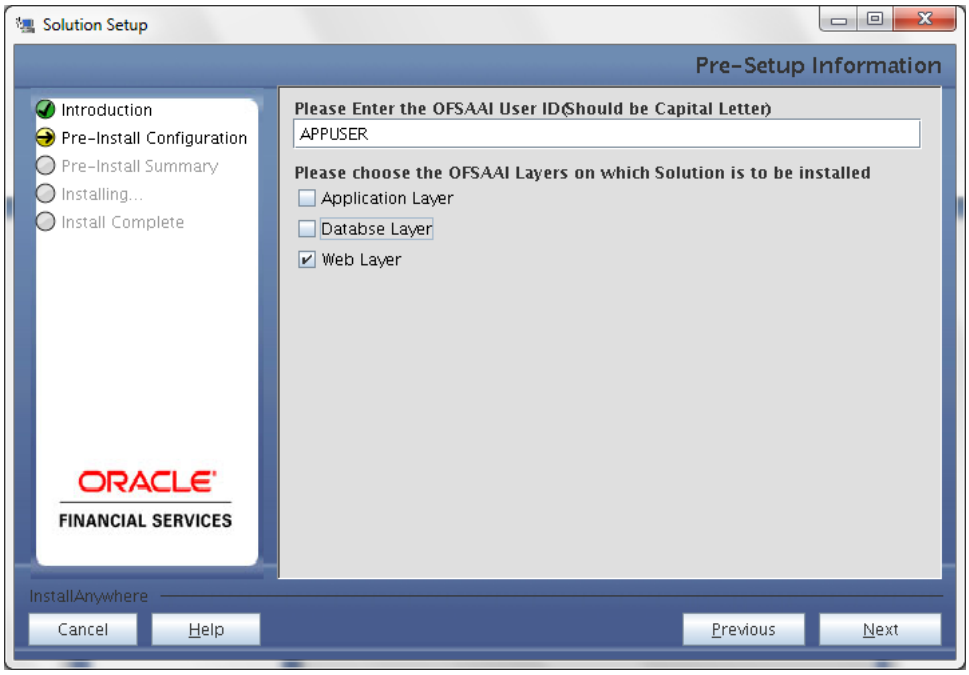
Step 5

The **Pre Setup Information** screen requests for setup information.

Enter the OFSAAI User ID.

Select the appropriate Oracle Financial Services Analytical Applications Infrastructure layer that has been installed on the machine.

Example: **Web Layer**

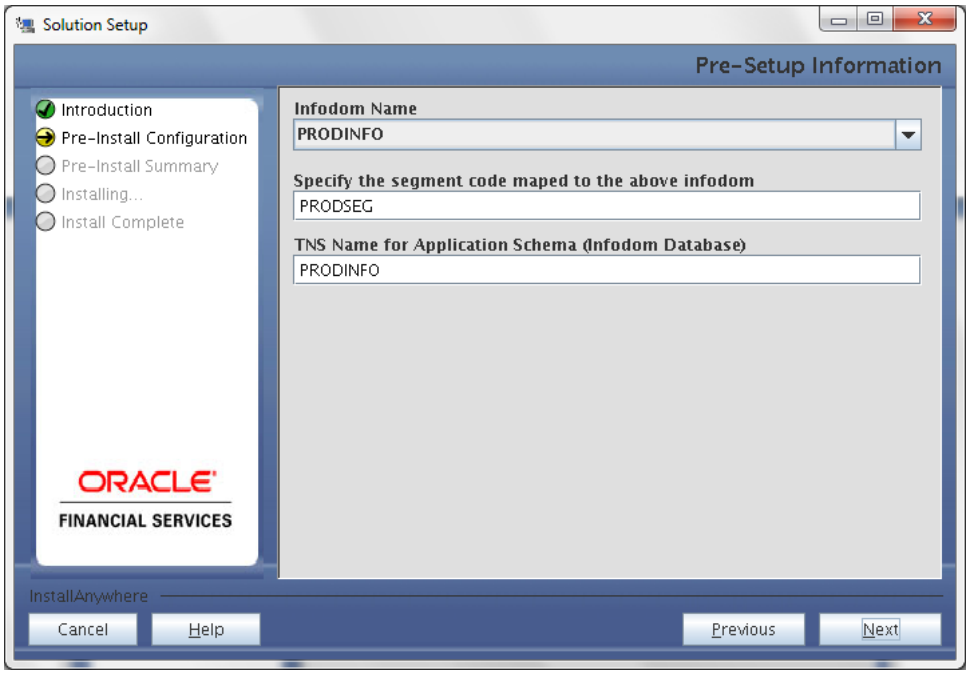


NOTE

- For a single-tier Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 installation, you must select Application Layer, Database Layer and Web layer.
- For a multitier Oracle Financial Services Analytical Applications Infrastructure Release 7.3.3.3.0 installation, select the corresponding layer installed on the machine.

Step 6

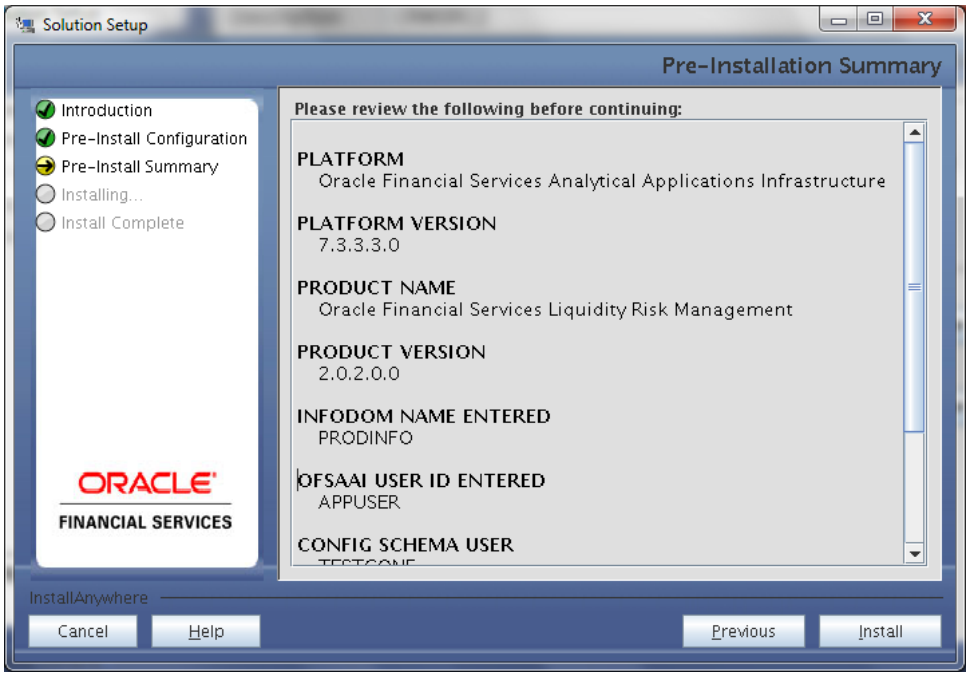
Select the infodom from list of infodoms present in the setup, enter segment code and enter the application schema's TNS name in the following screen prompt.



Step 7

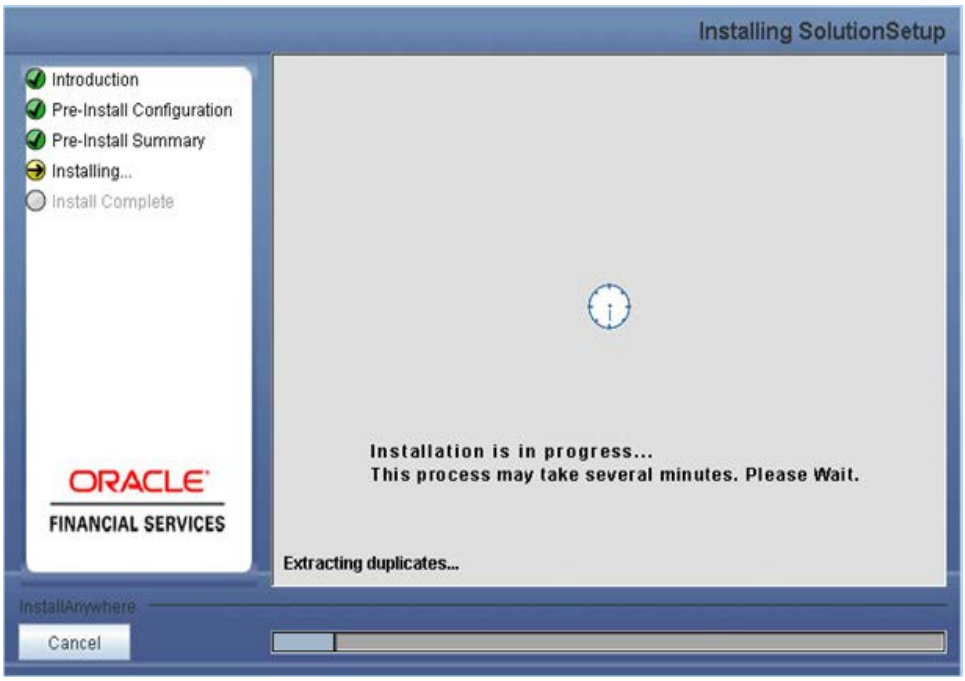
This screen prompt summarizes the preinstallation details. Verify all the details and proceed.

Click **Install** to proceed.



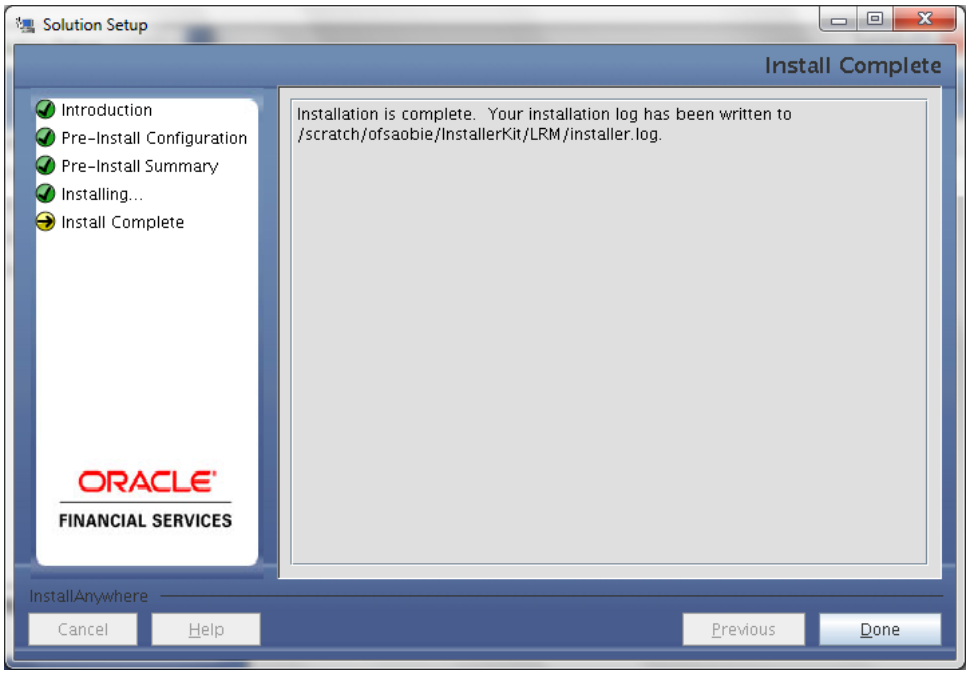
Step 8

This screen prompt displays the installation process. Wait till the installation is complete.



Step 9

The following screen prompt displays the completion of installation of the Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 setup. Click **Done** to exit.



3.3 OFS Liquidity Risk Management Release 2.0.2.0.0 Installation- Silent Mode

Silent installation is achieved through a properties file [silent.properties] that must be updated with proper values, before attempting to install using the silent mode.

How to install in Silent Mode

The installer folder contains a template file **Silent.template**.

Create a copy of this file and rename the copy as **Silent.props**.

Edit the file **Silent.props** and specify the parameters as per the requirements.

On the UNIX Command prompt, execute the following command:

Setup.sh SILENT

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:

Silent.Props.xls

3.4 Post Installation Activities

Once the installation of Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 Application is completed, refer to the following activities:

- The following tag should be added manually in web.xml if not already present in web.xml.

```
<resource-ref>
<description>DB Connection <Infodom_Name></description>
<res-ref-name>jdbc/<infodom_name></res-ref-name>
<res-type>javax.sql.DataSource</res-type>
<res-auth>Container</res-auth>
</resource-ref>
```

- Create a connection pool in the Information Domain. *For more information refer to the OFSAAI 7.3.0.0.0 Installation manual.*
- Check for `export` **`LDR_CNTRL=MAXDATA=0x40000000`** in the .profile. If already commented as per pre-installation activity then uncomment it.
- Map the domain segment names to a User Group manually. To do so, click **Security Management** from the LHS of the OFSAAI front end, then click **User Group Domain Map** option and map the required Information Domain – segment to the User Group.
- Create and deploy the war file into webserver. For more information on deploying the war file refer to the *OFSAAI 7.3.0.0.0 Installation manual.*
- Start all OFSAAI Servers.
- Start the web server after deployment.
- Refer *Start Infrastructure* section in the OFSAAI Installation Guide for assistance in starting the servers.
- Map the role “LRSTROLE” to the user group to access the Liquidity Risk Management Link.
- By default, all the LRM screen buttons are disabled. To enable specific buttons for example: Add, Modify, Delete and so user must create a role and the role must have the proper function mapped to it. Ensure that the role is mapped to the user group. The complete function list of LRM is explained in “Setup Role Management “section in *OFS Liquidity Risk Management User Guide Release 2.0.2.0.0.*
- The below scripts have to be enabled (only for upgrade activity):

```
ALTER TABLE PR2_RULE_MAP ENABLE CONSTRAINT FK_PR2_RULE_MAP_1
/
ALTER TABLE PR2_RULE_OBJECT ENABLE CONSTRAINT FK_PR2_RULE_OBJECT_1
/
ALTER TABLE PR2_RULE_QUERY ENABLE CONSTRAINT FK_PR2_RULE_QUERY_1
/
ALTER TABLE PR2_RUN_OBJECT ENABLE CONSTRAINT FK_PR2_RUN_OBJECT_1
/
```

```
ALTER TABLE PR2_RUN_OBJECT_PARAMETER ENABLE CONSTRAINT
FK_PR2_RUN_OBJECT_PARAMETER_1
/
ALTER TABLE PR2_RUN_OBJECT_MEMBER ENABLE CONSTRAINT
FK_PR2_RUN_OBJECT_MEMBER_1
/
ALTER TABLE PR2_RUN_MAP ENABLE CONSTRAINT FK_PR2_RUN_MAP_1
/
ALTER TABLE PR2_RUN_EXECUTION_B ENABLE CONSTRAINT
FK_PR2_RUN_EXECUTION_B_1
/
```

- If you are installing Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 on OFSAAI 7.3.3.0.0 or higher versions, you need to run the MLS utility. See the Multiple Language Support (MLS) Utility section in *OFSAAI Administration Guide*.
- Re-save other metadata and all the Hierarchies after populating the setup data and executing the SCD batch.
- Recompile all the Functions, procedures and views.

NOTE:

Ignore the following error in the log:

ORA-00955 name is already used by an existing object.

The Oracle Financial Services Liquidity Risk Management Release 2.0.2.0.0 application is now ready to be used.

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

Installation Manual
June 2014
Oracle Financial Services Liquidity Risk Management, Release 2.0.2.0.0
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World Headquarters
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http://www.oracle.com/us/industries/financial-services/index.html