

Installation Manual  
Oracle Financial Services Credit Risk Management  
Release 4.0.0.0.0  
December 2012



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## Document Control

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## 1. Getting Started

### 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 Credit Risk Management are pre-packaged on OFSAAI and are ready to install.

With the help of Oracle Financial Services Credit Risk Management, we aim to provide a single consistent view of portfolio credit risk across the entire organization.

OFS Credit Risk Management consists of four key components:

- Enterprise Credit Risk
- Wholesale Credit Risk
- Retail Credit Risk
- Counterparty Credit Risk

### 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

The information contained in this document is intended to give you a quick exposure and an understanding of the installation procedures to install the Oracle Financial Services Credit Risk Management.

The document also deals with the information related to the OFS Credit Risk Management installation process and the topics are designed in the order of priority with related procedures to assist, configure, and manage the administrative tasks effectively.

## 1.5 Organization of the Manual

The Installation Manual is organized into the following chapters:

- **Preinstallation Configuration** section consists of the pre-configuration activities that are to be completed successfully for proper installation and functioning of the application.
- **Installing the Analytical 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 the successful installation of the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0.

## 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**

- Notes are displayed as follows:

#### **Note:**

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

## 2. Preinstallation Configuration

The list of pre-configurations required to install and run the OFSAAI 7.3.2.0.0 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.

- [Environment](#)
- [Generic Software](#)
- [Preinstallation Activities](#)

For more information on the hardware or software requirements refer to the Release Notes. For more information on environment variables to be set refer to the OFSAAI Installation Manual.

### 2.1 Environment

Type	Description
<b>OS</b>	Red Hat Enterprise Linux Server release 5.5 (Tikanga) - 64 bit Oracle Enterprise Linux Server release 5.5 (Carthage) - 64 bit Red Hat Enterprise Linux Server release 5.3 (Tikanga) - 64 bit Oracle Enterprise Linux Server release 5.3 (Carthage) - 64 bit
<b>Infrastructure Web Server</b>	Apache Tomcat 7.0.19 pointing to JDK Standard Edition 1.6.0_25 - 64 bit
<b>Infrastructure Application Server</b>	Oracle Client 11g R2 (11.2.0.2.0) - 64 bit Sun JRE Standard Edition 1.6.0_25 - 64 bit
<b>Infrastructure Database Server</b>	Oracle Database Enterprise Edition Release 11.2.0.2.0 - 64 bit Sun JRE Standard Edition 1.6.0_25 - 64 bit Sun JDK Standard Edition 1.6.0_25 - 64 bit Oracle Hyperion Essbase 11.1.2.1.0 (Server and Client)
<b>Infrastructure Release version</b>	OFSAAI 7.3.2.0.0
<b>Reporting Tool</b>	Oracle Business Intelligence Suite Enterprise Edition 11.1.1.6.2
<b>Patch details (if any)</b>	On base OFSAAI platform version 7.3, apply the latest patch set to upgrade to release 7.3.2.0.0. Also apply the one-off patch 14574715.

## 2.2 Generic Software

Type	Description
<p><b>Other Software</b></p>	<p>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.</p> <p><b>Note:</b></p> <p>OPEN LDAP needs to be installed on Microsoft Windows machine only.</p> <p>Hummingbird <b>Exceed</b> 7.0 has to be installed on a Microsoft Windows machine as a simulator for remote installation.</p> <p><b>Note:</b></p> <p>Hummingbird Exceed is required for GUI Mode of installation.</p>
<p><b>Front End Access</b></p>	<p>Microsoft Internet Explorer 8/9</p> <p>Microsoft Office 2003/2007</p> <p>Client Machines – Windows XP SP3/Windows 7</p> <p>The screen resolutions supported are 1024*768 and 1280*1024</p> <p>Adobe Reader 8.0</p> <p>Java Plug-in 1.6.0 21</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Ensure that Java Plug-in is enabled in the browser settings.</li> <li>• Enable caching of static content (static files, images, CSS, etc) for browser client.</li> <li>• Cookies should be disabled.</li> </ul>

## 2.3 Preinstallation Activities

The following is the preinstallation checklist to ensure the readiness to start installing OFS Credit Risk Management Application:

- Customer should have an OFSAAI login user other than sysadmin or sysauth.
- 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.

**Note:**

To create a new Information Domain and Atomic schema needs to be created manually.

- The Information Domain schema makes use of the tables from the configuration schema. To create a new information domain, execute the file **<Infrastructure Database Layer Install Directory>/config\_table\_privileges\_for\_atomic\_user.sql** from the Infrastructure config database before creating the new information domain. These Privileges should be given to the Production Schema (essentially all the Atomic schemas).

- 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 synonym 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 trigger to ATOMIC_USER
grant debug connect session to ATOMIC_USER
grant create any index to ATOMIC_USER
grant create type to ATOMIC_USER
grant connect, resource to ATOMIC_USER
```

- Update the server details if you are installing an OFSAAI product for the first time. Click **Server Details** under **System Configuration** in the LHS menu of the OFSAAI User Interface and update the Database Server, Application Server, and Web Server.
- Copy all the contents of the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 installer download directory to the server location (including the Data Model directory). Provide read, write and execute permission to all the files present in this directory.
- Rename the Data Model present in the Data Model directory to CRM\_Datamodel.xml.
- Specify the log file path and name in the log4j.xml. Update the value attribute highlighted in the following figure:

```
<?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 it, execute the .profile and then trigger the Setup.sh.
- For a multitier installation, check whether **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 OFSAI tiers.

## 3. Installing the Analytical Application

### 3.1 OFS Credit Risk Management Release 4.0.0.0.0 Installation

The OFSAI comprises of components that are installed in Web, Application and Database layer. Hence, if you have installed OFSAI Release 7.3.2.0.0 in a multitier architecture, the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 installer must be loaded on each of the machines that host the Oracle Financial Services Analytical Applications Infrastructure tier.

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 OFSAI Release 7.3.2.0.0 is installed on RHEL 5.3/5.5, OEL 5.3/5.5 server - Oracle 11g on separate machines A, B, and C respectively.

For Silent Installation, refer to the section [Silent Mode](#).

#### 3.1.1 Machine A – Product Application Layer

**Step 1**

To begin with the OFS Credit Risk Management Release 4.0.0.0.0 installation, execute **Setup.sh** with the parameter GUI (GUI Installation) or SILENT (for Silent installation).



**Figure 1: Installation Splash Screen**

**Step 2**

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

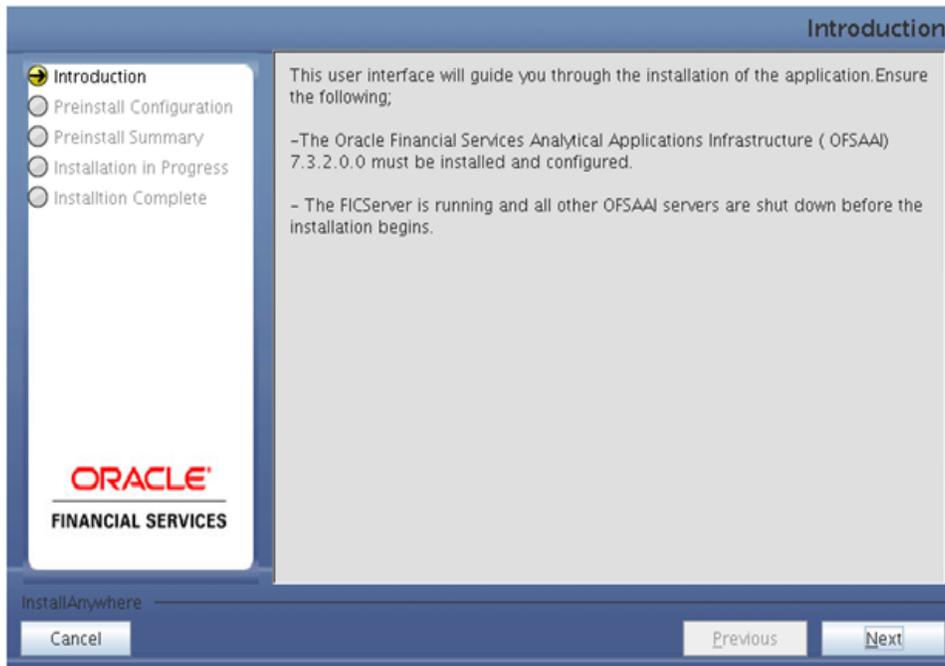


Figure 2: Introduction Screen

**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.

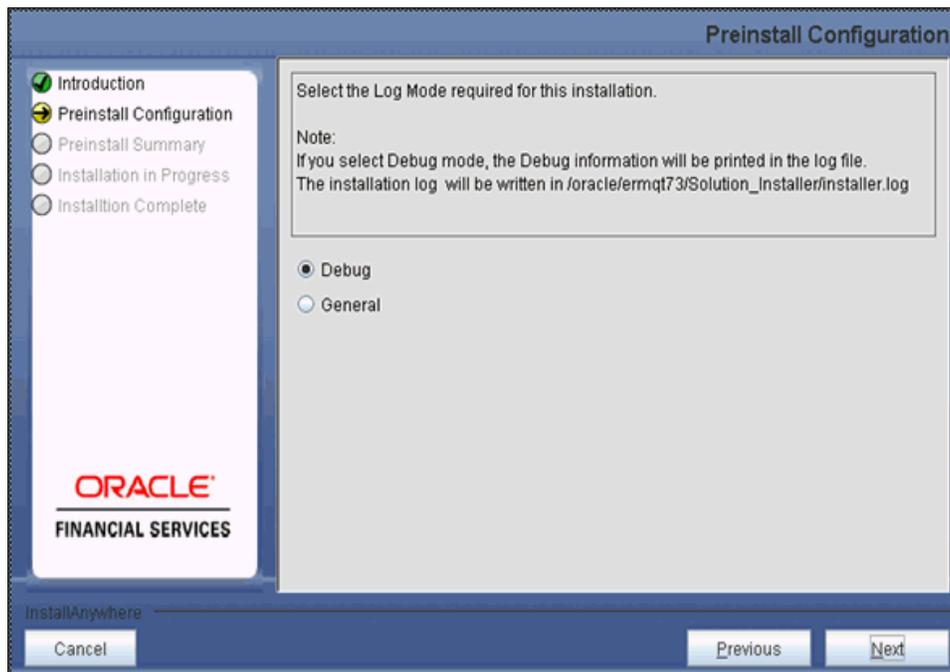
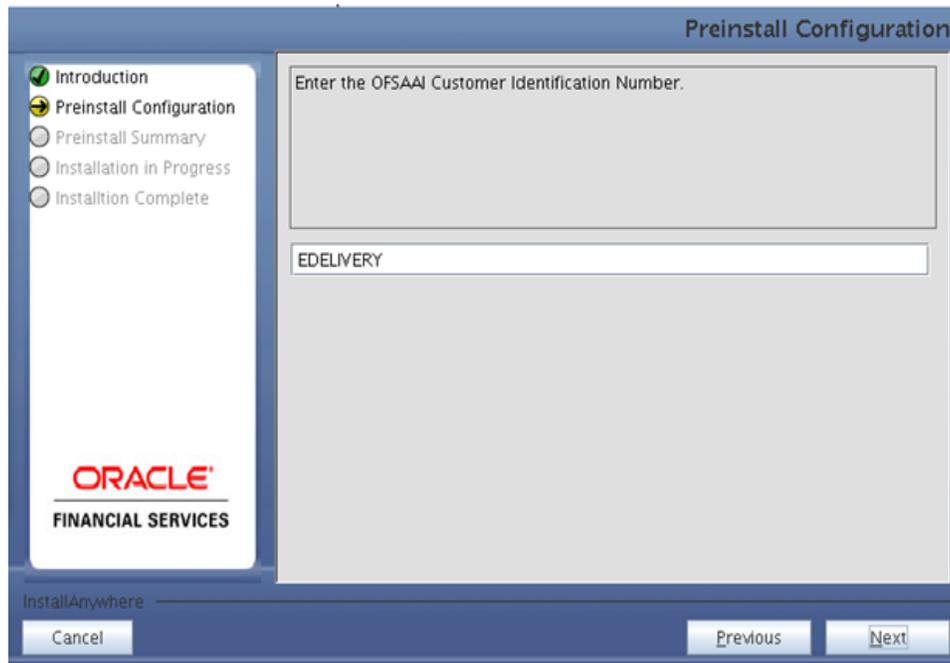


Figure 3: Log Mode Option Screen

#### Step 4

Enter the Customer Identification Number and click **Next** to continue.



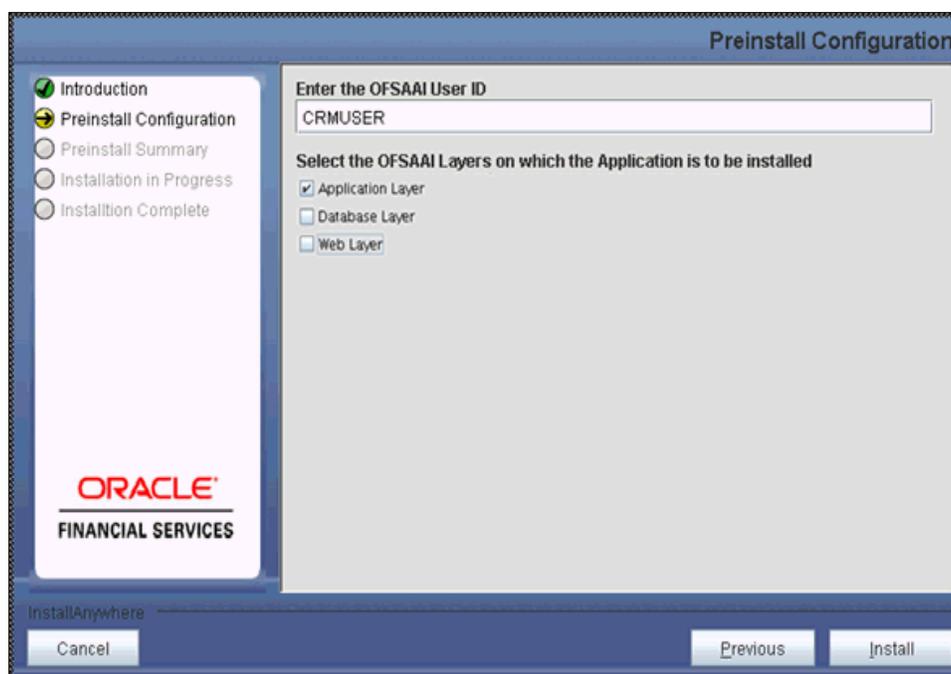
**Figure 4: Customer ID Input Screen**

#### Step 5

In the next screen 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**



**Figure 5: Pre Setup Information Screen – Choose Layer to Install**

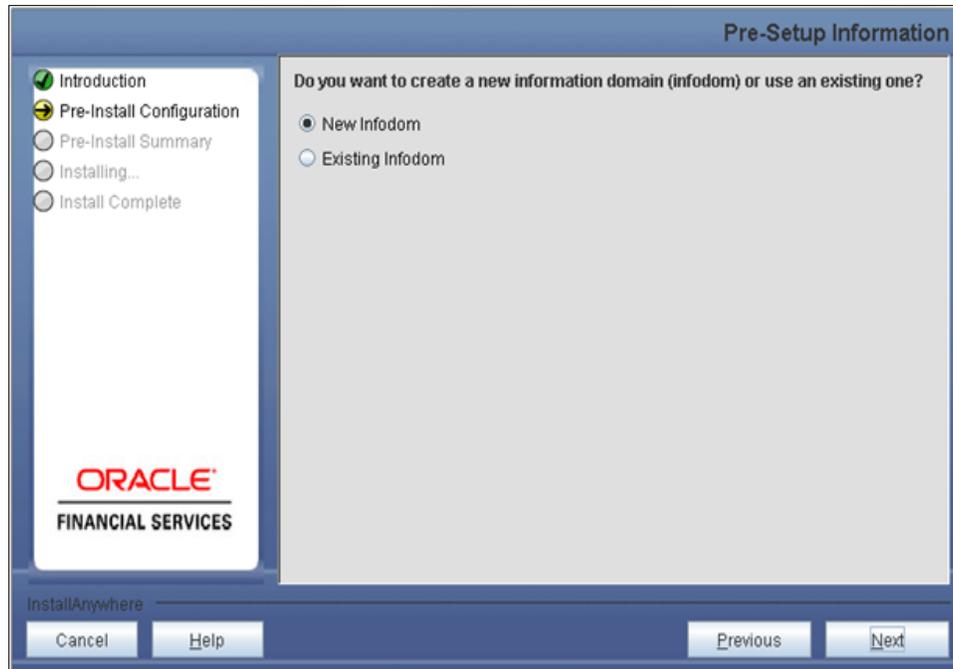
**Note:**

For a single-tier OFSAAI Release 7.3.2.0.0 installation, you must select Application Layer, Database Layer and Web layer.

For a multitier OFSAAI Release 7.3.2.0.0 installation, select the corresponding layer installed on the machine.

**Step 6**

This screen seeks information on whether a new Information Domain has to be created or the existing Information Domain is to be used for installation. Choose the required option.



**Figure 6: Pre Setup Information Screen – Information Domain type**

Click **Next** to continue. If **New Information Domain** is selected then go to **Step 7** or else go to [Step 8](#).

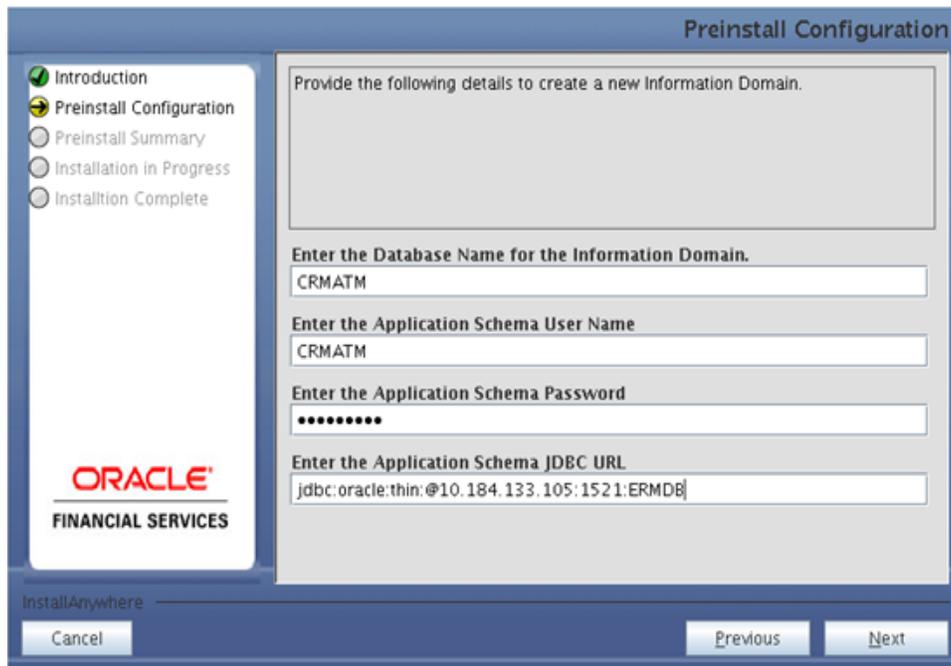
### **Step 7**

If the option **New Information Domain** is selected then update the following to create information domain:

#### **Step 7-i:**

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

Click **Next** to continue.

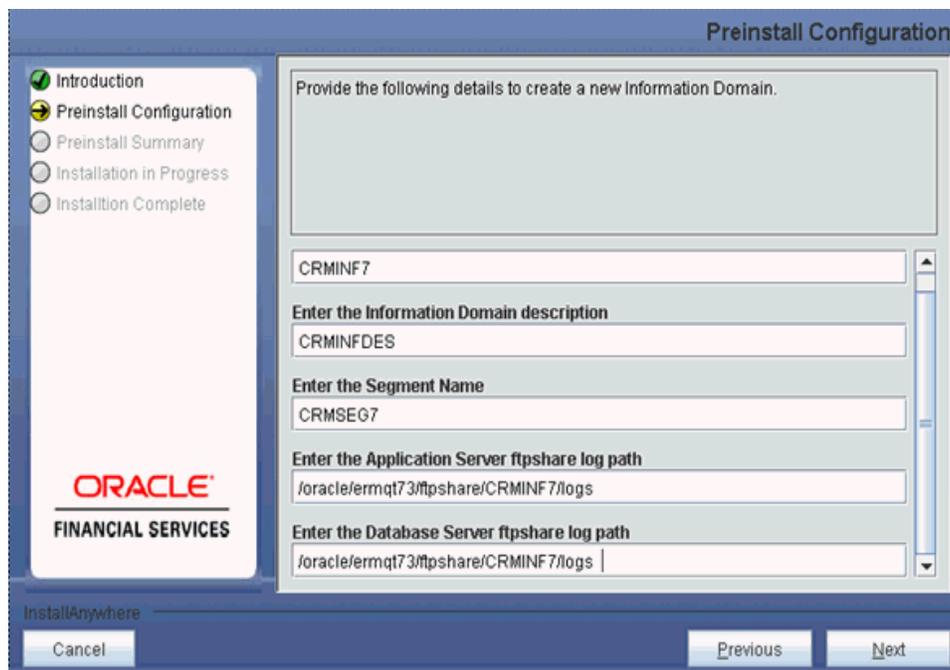


**Figure 7: Database details for the New Information Domain**

**Step 7-ii**

In the next screen 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).



**Figure 8: Information Domain details for creation of new Information Domain**

**Note:**

The OFSAAI user must have a role mapped to perform Add/Modify functions for OFS Credit 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.

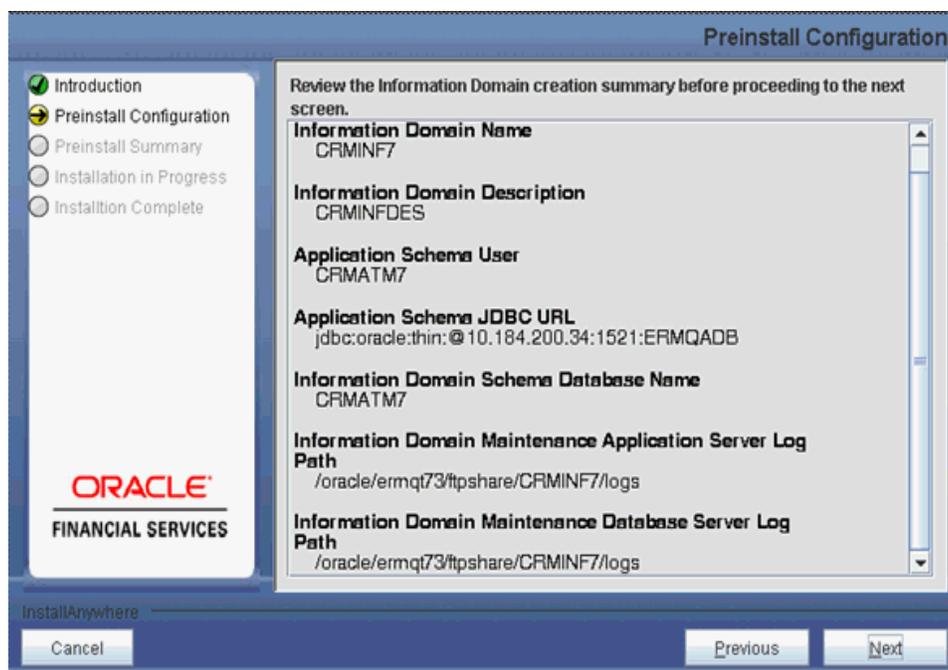


Figure 9: Pre-information domain Creation Summary

### 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.
- For additional segments click the checkbox.
- Enter the application schema's TNS name.

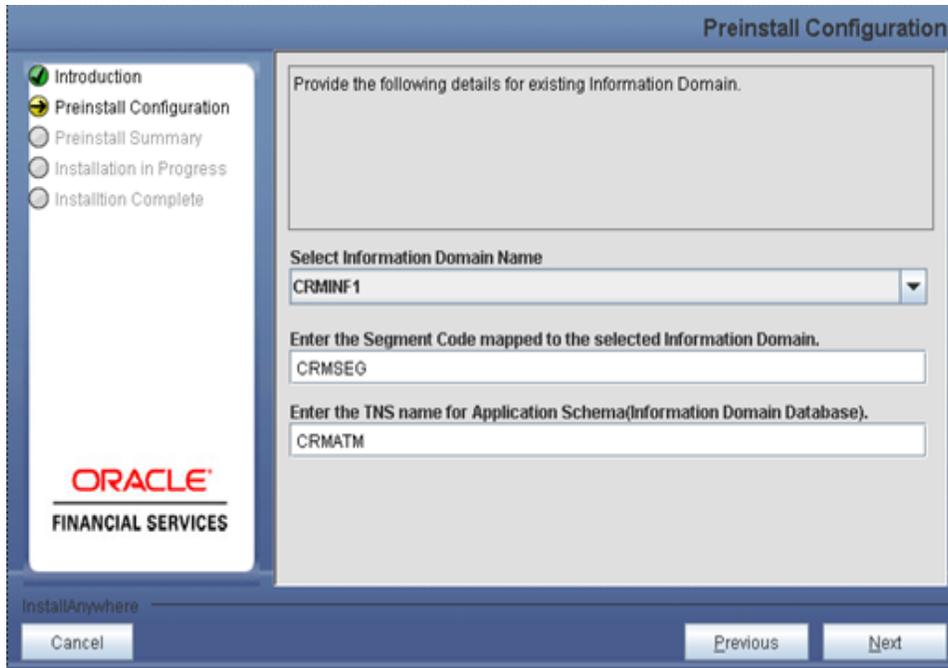


Figure 10: Installation in Progress

### Step 9

Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 data model is packaged as part of the application installer and is installed as a part of the following steps, if required.

In the the following screen opt for Model Upload process through the installer.

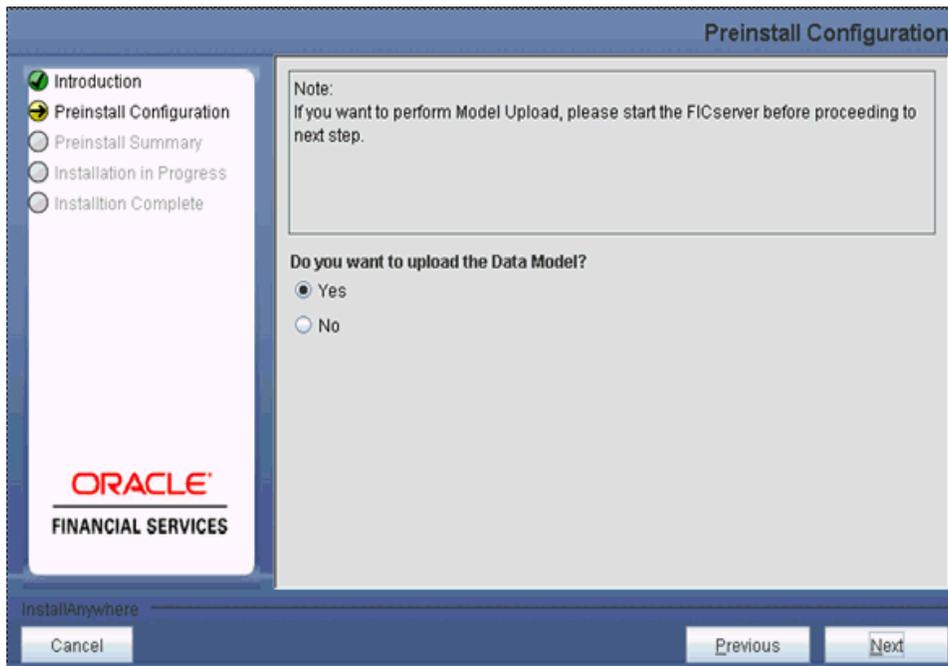


Figure 11: Pre-Setup Information

**Note:**

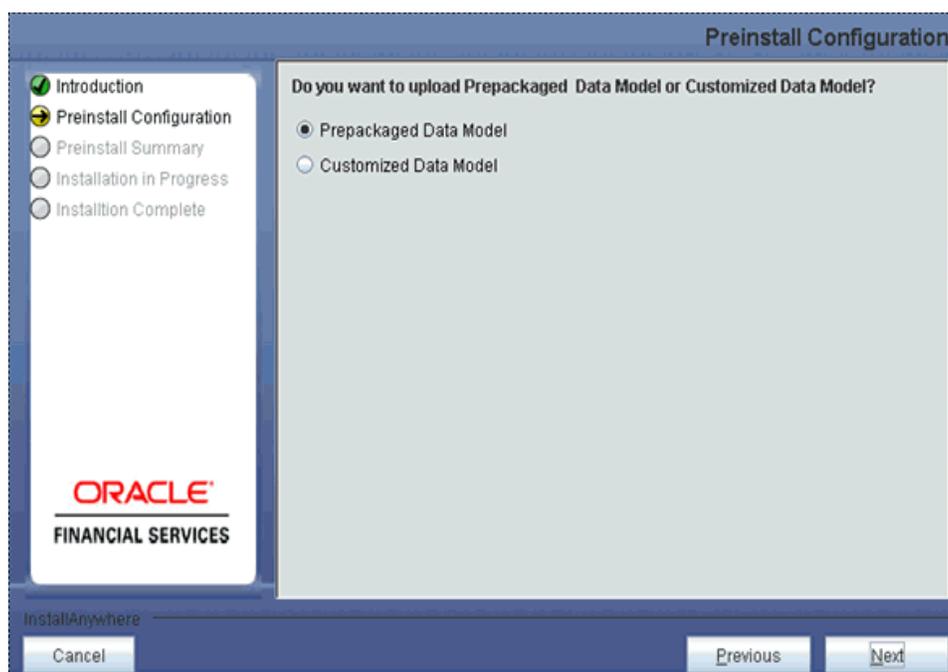
If **Yes** is selected for data model upload, then copy the .xml to a specific folder and rename the file.

Clicking **No** implies that the OFS Credit Risk Management model is already uploaded. Click **Next** to proceed further.

If you select **No** go to [Step 12](#) or else go to **Step 10**.

**Step – 10**

In the following screen choose the **Prepackaged Datamodel** or the **Customized Datamodel** to be uploaded.



**Figure 12: Pre – Setup information**

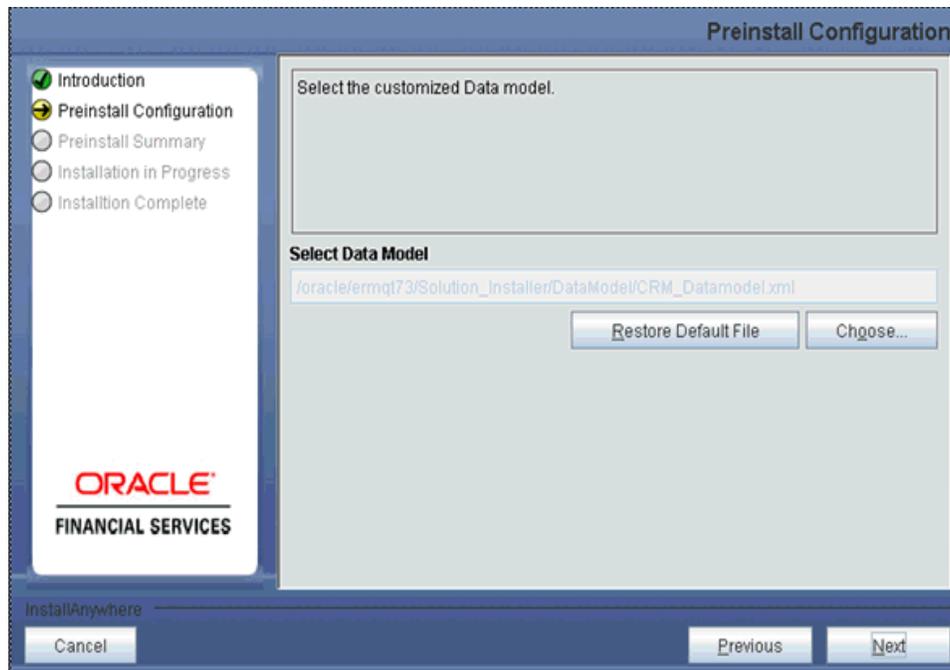
If **Prepackaged Data Model** option is selected, then the installer uploads the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 data model. If **Prepackaged Data Model** is selected go to [Step 12](#) or else go to **Step 11**.

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

Click **Next** to proceed.

**Step – 11**

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



**Figure 13: Pre – Setup information**

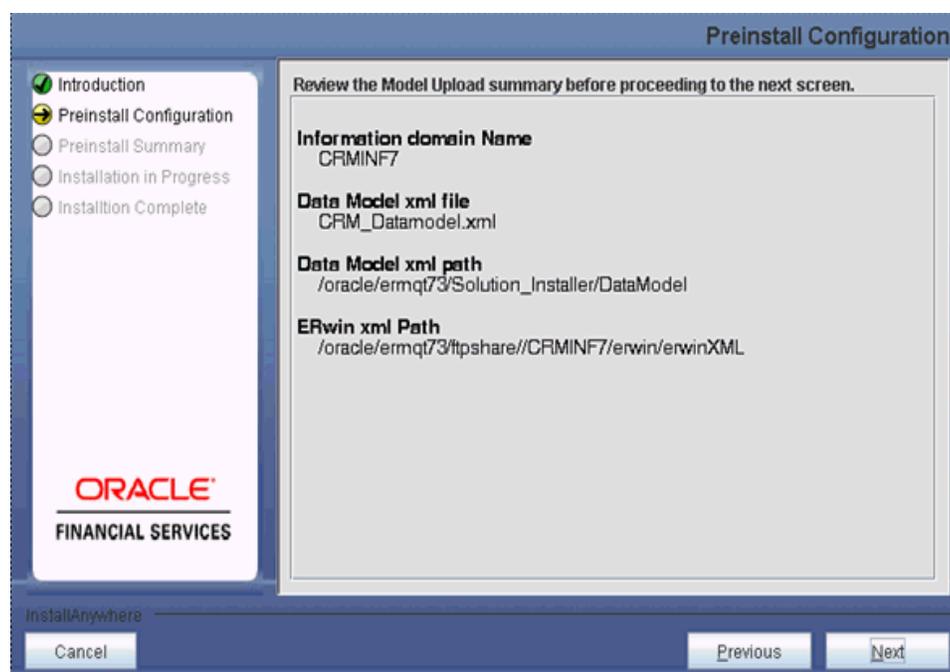
**Note:**

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 selected in this screen 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 screen prompt.

**Step – 12**

The following screen displays the summary of the uploaded data model:



**Figure 14: Pre – Model Upload Summary**

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

The time taken to upload the data model is dependent on the size of the data model and available physical memory in the environment. You cannot proceed further without the successful completion of the data model upload. Also, 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 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.

- Error in Upload Operation

**Possible reason/resolution:**

FAILED WHILE SUPER CATEGORY - SUB CATEGORY RELATIONS HANDLINGDELETING.

Incorrect Erwin.xsl file version in \$FIC\_APP\_HOME/common/FICServer/conf directory.

### Step 13

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

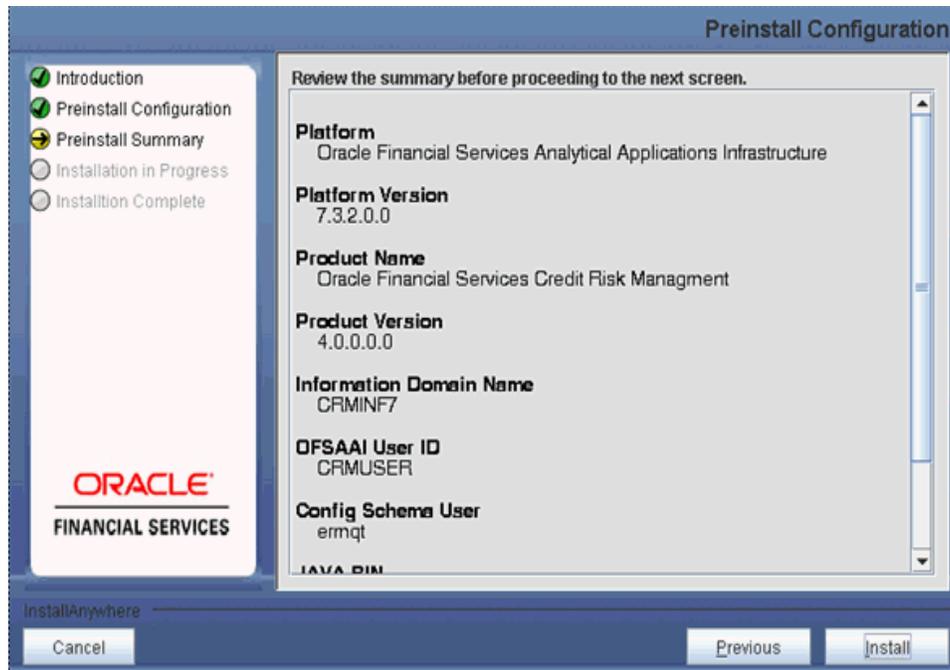


Figure 15: Pre – Install Summary

### Step 14

This screen displays the installation process. The installation needs to be completed to proceed further.

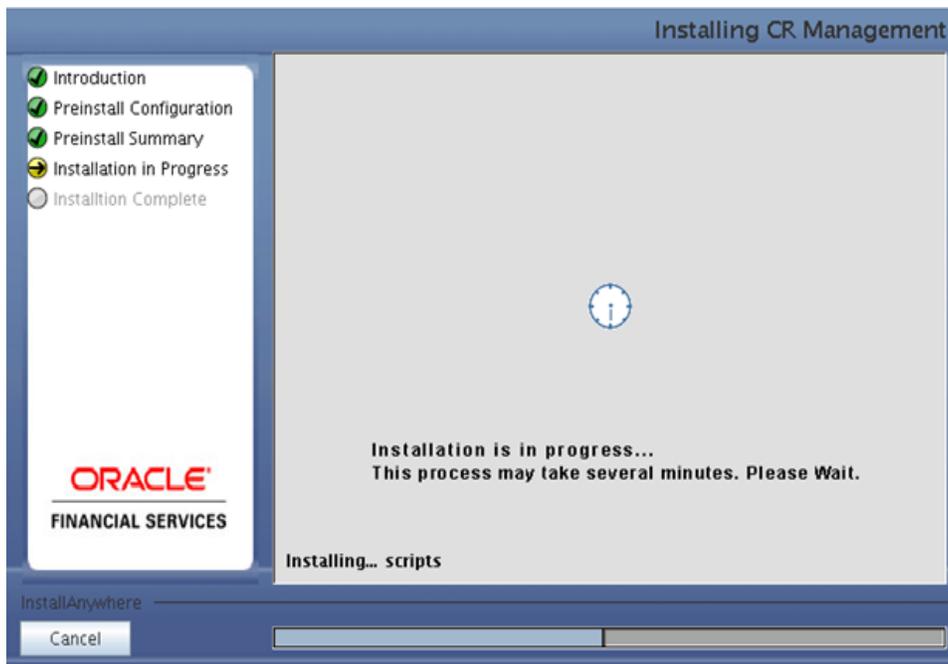


Figure 16: Installation is in progress

**Step 15**

The following screen displays the completion of installation of the OFS Credit Risk Management Release 4.0.0.0.0 Setup. Click **Done** to exit.

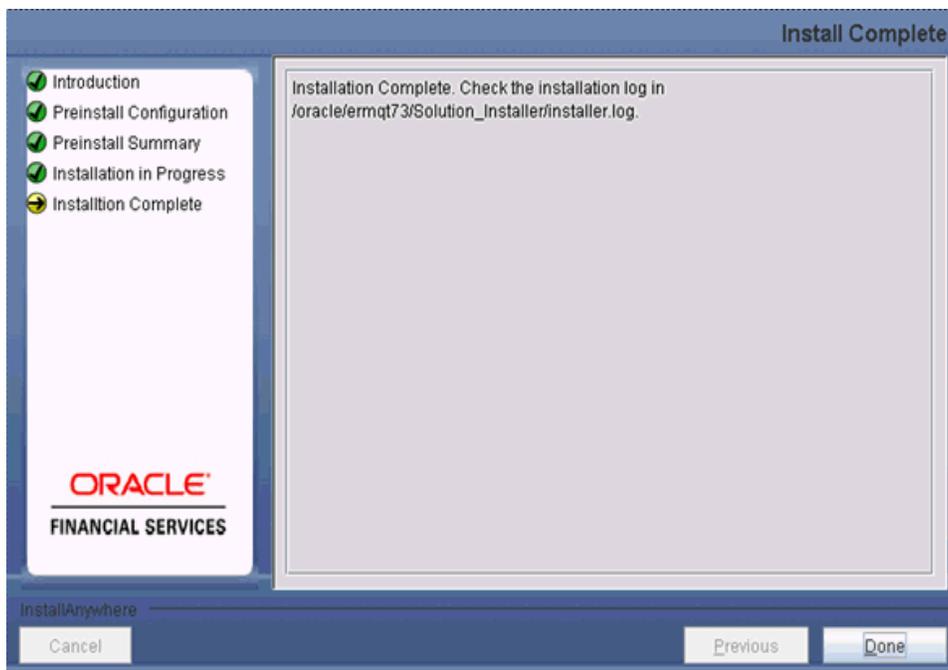


Figure 17: Installation Complete

### 3.1.2 **Machine B – Product Database Layer**

#### **Step 1**

To begin with the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 installation, execute **Setup.sh** with the parameter GUI (GUI Installation) or SILENT (for Silent installation).



**Figure 18: Installation Splash Screen**

Repeat [Step 2 - Step 5](#) as mentioned in Machine A – Product Application Layer.

#### **Step 6**

Select the information domain from the drop down list present in the setup. Enter segment code and enter the application schema's TNS name in the following screen prompt.

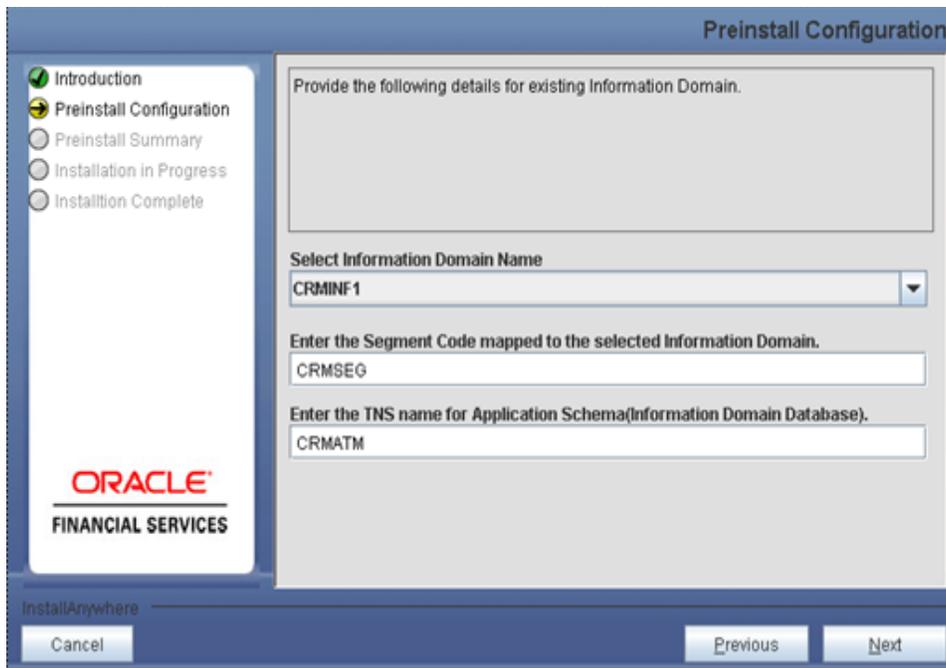


Figure 19: Pre Setup Information Screen – Choose Layer to Install

**Step 7**

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

Click **Install** to proceed.

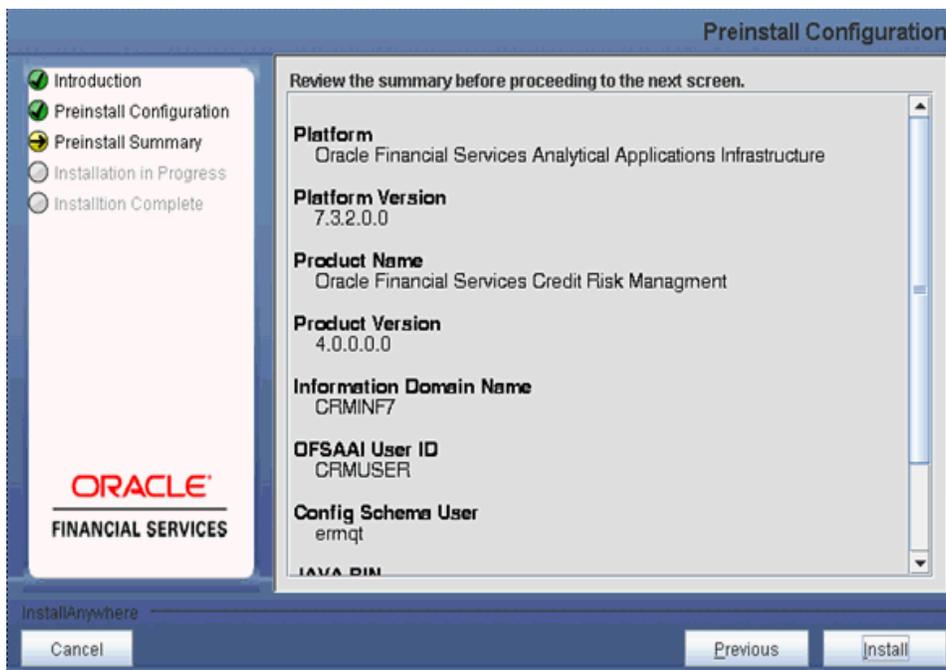
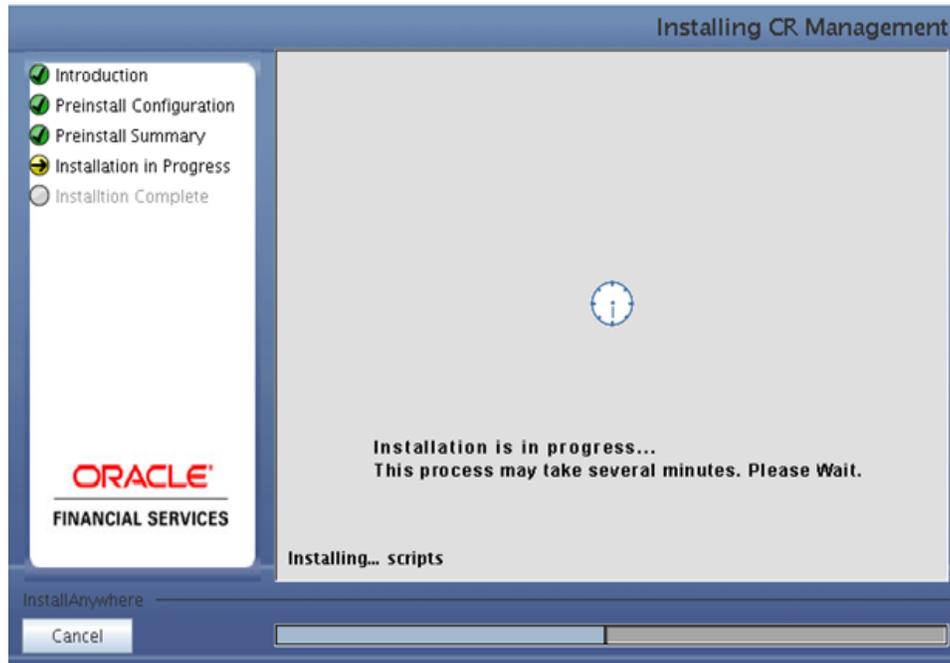


Figure 20: Pre – Install Summary

### Step 8

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



**Figure 21: Installation is in progress**

### Step 9

The following screen prompt displays the completion of installation of the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 setup.

Click **Done** to exit.

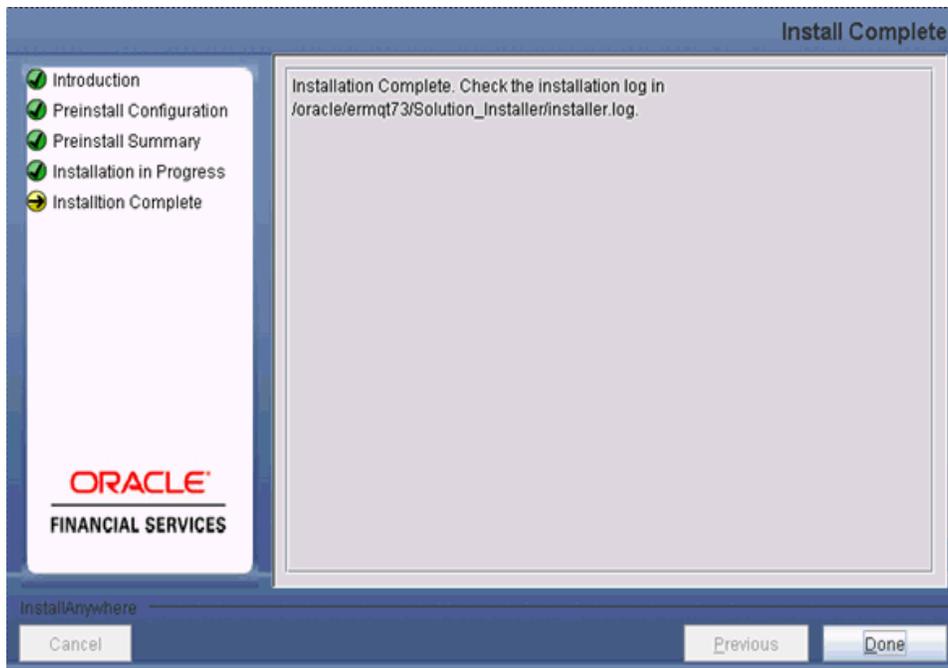


Figure 22: Installation Complete

### 3.1.3 Machine C – Product Web Layer

#### Step 1

To begin with the Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 installation, execute **Setup.sh** with the parameter GUI (GUI Installation) or SILENT (for Silent installation).

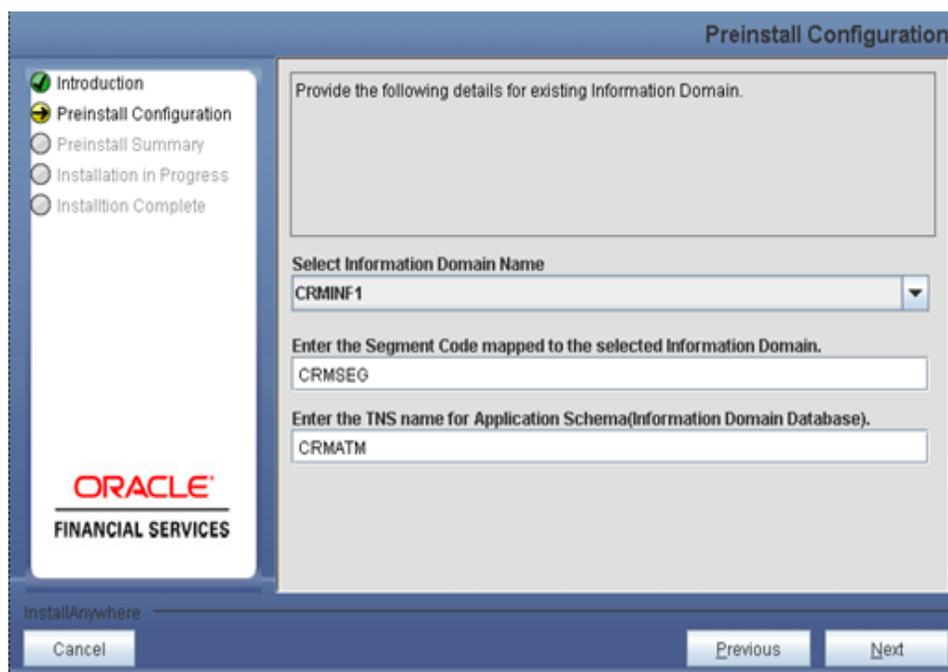


**Figure 23: Installation Splash Screen**

Repeat [Step 2 - Step 5](#) as mentioned in Machine A – Product Application Layer

**Step 6**

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



**Figure 24: Pre Setup Information Screen – Choose Layer to Install**

**Step 7**

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

Click **Install** to proceed.

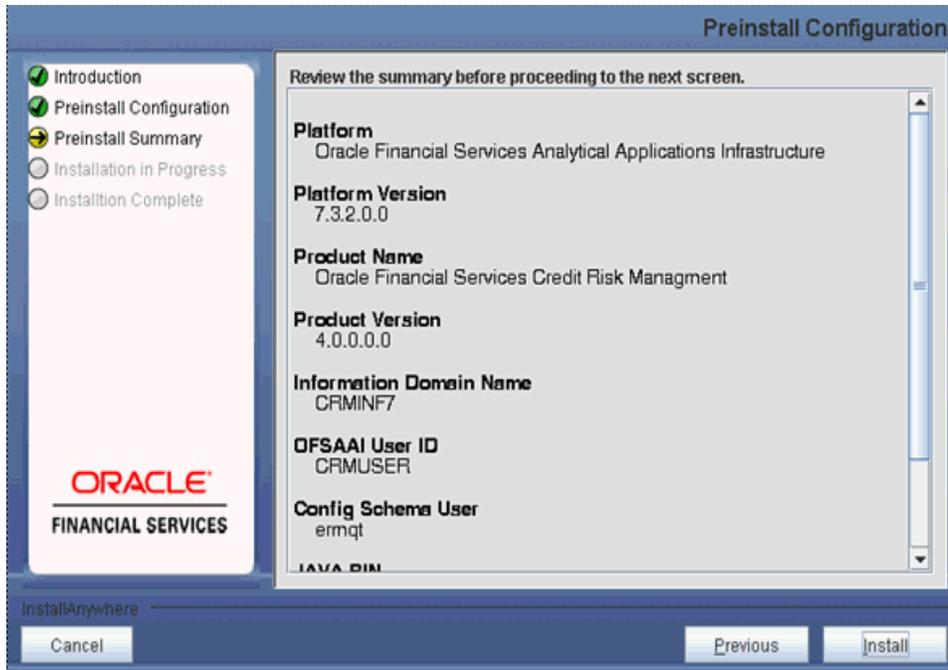


Figure 25: Pre – Install Summary

### Step 8

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

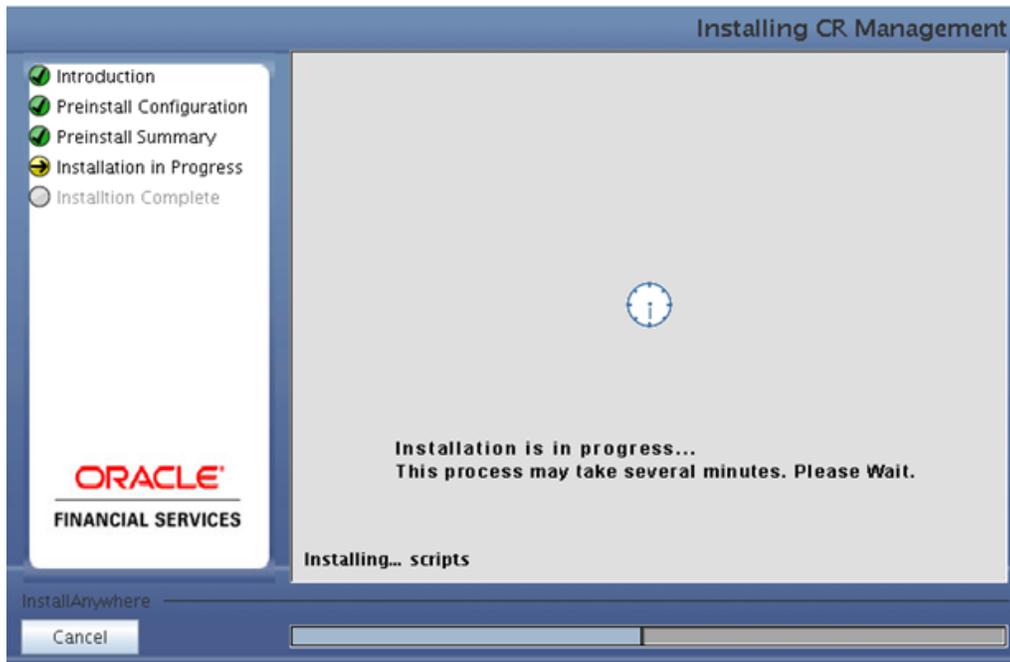
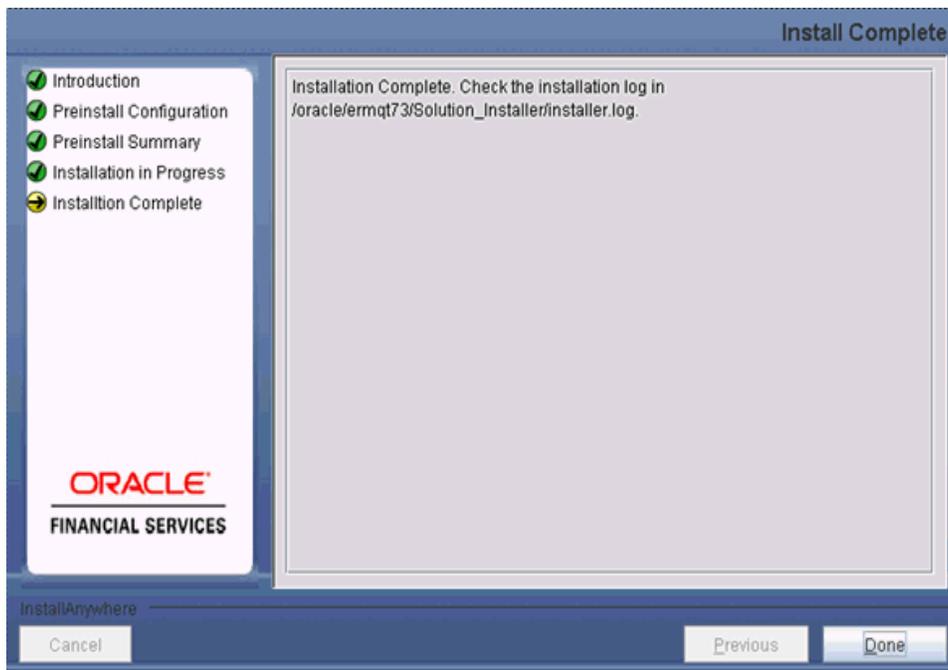


Figure 26: Installation is in progress

**Step 9**

The following screen prompt displays the completion of installation of the Oracle Financial Services Credit Risk Management, Release 4.0.0.0.0 setup.

Click **Done** to exit.



**Figure 27: Installation Complete**

**3.2 OFS Credit Risk Management Release 4.0.0.0.0 Installation- Silent Mode**

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

- Copy the setup.sh, setup.bin, and silent.props to the layer(s) in which the installation has to be done.
- Edit the file silent.props and specify the parameters as per the requirements.
- Execute Setup.sh with command line argument as SILENT, that is, **Setup.sh SILENT**, to start the installer

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
CUSTOMER_ID	Customer id specified while installing OFSAI	Not Applicable	MANDATORY
BATCH_USER	OFSAI User ID	Not Applicable	MANDATORY

Property Name	Description of Property	Permissible values	Comments
SER	used to execute the batches or runs.		
INSTALL_APP	Install application-tier components	0 = No, 1= Yes	Default : 0
INSTALL_DB	Install database-tier components	0 = No, 1= Yes	Default : 0
INSTALL_WEB	Install web-tier components	0 = No, 1= Yes	Default : 0
INFODOM_TYPE	Select the New Information Domain or Existing Information Domain	0 = New, 1=Existing	# Specify Information Domain Type. Mandatory if this an App Layer Installation i.e you have specified INSTALL_APP=1
INFODOM_NAME	Name of the Information Domain	Not Applicable	MANDATORY
INFODOM_DESC	Description of the Database Schema for new Information Domain	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new Information Domain
SEGMENT_NAME	Name of Segment	Not Applicable	MANDATORY
APPL_TNS	TNS Name of the Information Domain database	Not Applicable	MANDATORY
APPL_USER	User ID of the Database Schema for new Information Domain	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new Information Domain i.e you have specified INSTALL_APP=1 and INFODOM_TYPE=0
APPL_PASSWORD	Password of the Database Schema for new Information Domain	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new Information Domain i.e you have specified INSTALL_APP=1 and INFODOM_TYPE=0
APPL_URL	JDBC Connection String of the Database Schema for new Information Domain	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new Information Domain i.e you have specified INSTALL_APP=1 and INFODOM_TYPE=0
APPFTP_LOG_PATH	Information Domain Maintenance log path(to be created) for the new Information Domain for application Layer	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new Information Domain i.e you have specified INSTALL_APP=1 and INFODOM_TYPE=0
DBFTP_LOG_PATH	Information Domain Maintenance log path(to be created) for the new Information Domain for DataBase Layer	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new Information Domain i.e you have specified INSTALL_APP=1 and INFODOM_TYPE=0

Property Name	Description of Property	Permissible values	Comments
UPLOAD_MODEL	To perform Model Upload.	0 = No, 1= Yes	Mandatory if INSTALL_APP=1
MODEL_TYPE	Select Prepackaged Data Model or Customized Data Model.	0 = released, 1= customized	Mandatory if INSTALL_APP=1
DM_DIRECTORY	The filename for customized data model is stored.	Not applicable	# Mandatory if you want to upload the customized data model i.e you have specified MODEL_TYPE=1
DATAMODEL	The path for the customized data model.	Not applicable	# Mandatory if you want to upload the customized data model i.e you have specified MODEL_TYPE=1

### 3.3 Post Installation Activities

#### OFSAAI Server Memory Configuration

The OFSAAI Application Server is started using `revevusstartup.sh`. This file can be edited for setting customized memory settings, garbage collector settings depending on the available hardware configuration. You are requested to contact OFSAAI Support at <https://flexsupp.iflexsolutions.com/> for guidance in altering the memory settings.

Once the installation of Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 Application is completed, refer to the following activities:

#### Note:

- Create a connection pool in the Information Domain. *For more information refer to the OFSAAI 7.3.2.0.0 platform installation manual.*
- Map the following Roles to the User Group in the Front End manually.
  - RLRUNRPT
  - RLEXERUN
  - RLMODPRM
  - RLVIEWRUN
- 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. Check for `export LDR_CNTRL=MAXDATA=0x40000000` in the `.profile`. If already commented as per pre-installation activity then uncomment it.
- Create and deploy the war/er file into webserver. *For more information on deploying the war file refer to the OFSAAI v7.3.2.0.0 Installation manual.*
- Start all OFSAAI Servers.
  - FICAPP

- Tomcat
- Iccserver
- Router
- AM
- Messageserver
- Start the web server after deployment.
- Refer *Starting OFSAAI Servers* in the Installation Guide for assistance in starting the servers.
- Re-save all the Hierarchies and the other metadata in OFSAAI.
- Recompile all the functions, procedures and views.
- The log for resaving hierarchies can be found under  
\$FIC\_APP\_HOME/common/FICServer/logs/ResaveLog.log

**Note:**

Ignore the following errors in the log:

- *ORA-00942: table or view does not exist*
- *ORA-00001: unique constraint (ERMATOM.PK\_REV\_BIHIER) violated*
- *ORA-00955 name is already used by an existing object*

The Oracle Financial Services Credit Risk Management Release 4.0.0.0.0 Application is now ready to be used.

**Note:**

- Creation of the ETL applications - CR\_APP and FSAPPS is now performed by the installer.
- Creation of ETL data sources - CR\_SRC and STAGING, as RDBMS Sources pointing to the respective production Information Domain atomic databases to hold the T2T Definitions, is now performed by the installer.
- Mapping of the data sources CR\_APP to CR\_SRC application and STAGING to FSAPPS application is now performed by the installer.

If you encounter any problems during setup, please contact OFSAA Support at <https://flexsupp.iflexsolutions.com/>

## Annexure A- Limit Management

Limit Management is a utility by which the upper and lower limit of a dimension can be set. Limit Management application is developed using Forms Framework utility of the OFSAAI which requires a combination of xml and database table configuration mostly in config schema. This utility should be configured after the installation of the OFS Credit Risk Management application.

Limit management requires Maps to be configured using the Map Maintenance functionality of OFSAAI. Dimensions that are part of the limit definition should form a part of the Map. The dimensions should be defined as Product Type hierarchies under **Business Metadata Management**. These hierarchies are then mapped to each other by making appropriate selections by creating a Mapper definition in **Map Maintenance** screen under **Business Metadata Management**. For more details, refer to the Map Maintenance section in the *OFSAAI 7.3 User Guide*. Limits can be defined in Limit Definition screen only for selected combinations. This map table is available as a drop down in the **Template Definition** screen.

### Prerequisites:

The following requirements should be met before configuring Limit Management.

- Ensure that the following user functions are available in CSSMS\_FUNCTION\_MAST table. You have to create a role for Limit Management and accordingly map this role to the specific functions:
  - SCR\_LIM
  - LIM\_DEL
  - LIM\_EDIT
  - LTEMP\_DEL
  - LTEMP\_EDIT

### Note:

While creating a Mapper Definition, ensure that the Database Entity Name is unique.

### Limitations:

The Dimension Hierarchies should be defined only on **numeric** key columns. There is no such restriction for value or display columns.

### Note:

For more information on using the Limit Management utility, refer to the *OFS Credit Risk Management User Guide*.



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Oracle Financial Services Credit Risk Management V4.0.0.0.0

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