Document Control

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<td>Version 2.5.1.0.0</td>
<td>Revised on June 2014</td>
<td>Updated the Environment and Generic Software section to qualify on OEL/RHEL 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)</td>
</tr>
</tbody>
</table>

Created and Edited by: Dilip
Reviewed By: Ranjit Pallerlamudi
Approved by: Kumaran Krishnan

Executive Summary

The document consists of all the installation, Pre and Post configuration procedures which have been structured considering all the 2.5.1.0.0 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.
Table of Contents

1. ABOUT THIS MANUAL ..................................................................................................................... 2
   1.1 ORACLE FINANCIAL SERVICES ANALYTICAL APPLICATIONS INFRASTRUCTURE OVERVIEW............................................... 2
   1.2 ANALYTICAL APPLICATIONS OVERVIEW .................................................................................................................. 2
   1.3 AUDIENCE ............................................................................................................................................ 2
   1.4 SCOPE ................................................................................................................................................. 2
   1.5 ORGANIZATION OF THE MANUAL .............................................................................................................. 2
   1.6 CONVENTIONS USED IN THIS MANUAL ....................................................................................................... 3

2. PRE-INSTALLATION CONFIGURATION .............................................................................................. 4
   2.1 PREREQUISITES ...................................................................................................................................... 4
   2.2 ENVIRONMENT ...................................................................................................................................... 4
   2.3 GENERIC SOFTWARE .............................................................................................................................. 8
   2.4 PREINSTALLATION ACTIVITIES ................................................................................................................... 9
   2.5 PRE-UPGRADE ACTIVITIES ..................................................................................................................... 11

3. INSTALLING THE ANALYTICAL APPLICATION ................................................................................... 14
   3.1 KEY CONSIDERATIONS TO UPGRADE IN A CUSTOMIZED ENVIRONMENT: ........................................................... 14
   3.2 OFS MARKET RISK RELEASE 2.5.1.0.0 INSTALLATION ................................................................................ 14
      3.2.1 Machine A – Product Application Layer .................................................................................. 15
      3.2.2 Machine B – Product Database Layer ..................................................................................... 33
      3.2.3 Machine C – Product Web Layer ............................................................................................. 39
   3.3 OFS MARKET RISK RELEASE 2.5.1.0.0 INSTALLATION - SILENT MODE ........................................................... 45
   3.4 POST INSTALLATION ACTIVITIES .............................................................................................................. 45
1. About this Manual

1.1 Oracle Financial Services Analytical Applications Infrastructure Overview

Oracle Financial Services Analytical Application Infrastructure (OFSAAl) is an analytical application platform which has been architected to be multi-tiered and open-systems compliant. OFSAAl is fully web-enabled. It’s a 100% thin-client, browser-based interface with zero footprint which dramatically reduces the cost of application deployment. All OFSAAl 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.

OFSAAl 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 Market Risk are pre-packaged on OFSAAl and are ready to install.

The Oracle Financial Services Market Risk Release 2.5.1.0.0 helps a firm calculate the capital level required by the bank to cover the losses within a given probability by using Economic Capital methodologies which can be applied across products, lines of business and other segments as required.

1.3 Audience

This manual is meant for the OFSAAl 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 Market Risk Release 2.5.1.0.0, in an existing OFSAAl v7.3.3.3.0 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 Market Risk Release 2.5.1.0.0.

- 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 Market Risk Release 2.5.1.0.0

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.

- **Prerequisites**
- **Environment**
- **Generic Software**
- **Preinstallation Activities**
- **Pre-Upgrade Activities**

### 2.1 Prerequisites

- Infrastructure version 7.3.3.3.0 should be installed and below one-off should be applied.
  
  - Bug 18357346

  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)**

<table>
<thead>
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<th>Type</th>
<th>Description</th>
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<tr>
<td>OS</td>
<td><em>Red Hat Enterprise Linux Server release 5.8 (Tikanga) - 64 bit</em></td>
</tr>
<tr>
<td></td>
<td><em>Oracle Enterprise Linux Server release 5.8 (Carthage) - 64 bit</em></td>
</tr>
<tr>
<td></td>
<td><em>Red Hat Enterprise Linux Server release 5.3 (Tikanga) - 64 bit</em></td>
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<tr>
<td></td>
<td><em>Oracle Enterprise Linux Server release 5.3 (Carthage) - 64 bit</em></td>
</tr>
<tr>
<td>Infrastructure Application Server</td>
<td><em>Oracle Client 11g R2 (11.2.0.2.0) - 64 bit</em></td>
</tr>
<tr>
<td></td>
<td><em>Sun JRE Standard Edition 1.6.0_25 - 64 bit</em></td>
</tr>
<tr>
<td></td>
<td><em>Sun JDK Standard Edition 1.6.0_25 - 64 bit</em></td>
</tr>
</tbody>
</table>
## 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)**

<table>
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<th>Type</th>
<th>Description</th>
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</thead>
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<tr>
<td><strong>OS</strong></td>
<td>Oracle Solaris v5.10 Update 9 (9/10 s10s_u9wos_14a) SPARC sun4v - 64 bit</td>
</tr>
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</table>
| **Infrastructure Application Server** | Oracle Client 11g R2 (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 |
### 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)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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| 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 |
| 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

<table>
<thead>
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<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Other Software</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> OPEN LDAP needs to be installed on Microsoft Windows machine only.</td>
</tr>
<tr>
<td></td>
<td>Hummingbird <strong>Exceed</strong> 7.0 has to be installed on a Microsoft Windows machine as a simulator for remote installation.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Hummingbird Exceed is required for GUI Mode of installation.</td>
</tr>
<tr>
<td>Front End Access</td>
<td>Microsoft Internet Explorer 8/9</td>
</tr>
<tr>
<td></td>
<td>Microsoft Office 2003/2007</td>
</tr>
<tr>
<td></td>
<td>Client Machines – Windows XP SP3/Windows 7</td>
</tr>
<tr>
<td></td>
<td>The screen resolutions supported are 1024<em>768 and 1280</em>1024</td>
</tr>
<tr>
<td></td>
<td>Adobe Reader 8.0</td>
</tr>
<tr>
<td></td>
<td>Java Plug-in 1.6.0_21</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong></td>
</tr>
<tr>
<td></td>
<td>• Ensure that Java Plug-in is enabled in the browser settings.</td>
</tr>
<tr>
<td></td>
<td>• Enable caching of static content (static files, images, CSS, etc) for browser client.</td>
</tr>
<tr>
<td></td>
<td>• Cookies should be disabled.</td>
</tr>
</tbody>
</table>

**NOTE:**

The Oracle Financial Services Market Risk Release 2.5.1.0.0 installer download contains the Erwin XML file only, which is required for uploading the model. This file is sufficient to install the application. However, you cannot open the XML file in the ERwin data modeler tool due to which it cannot be used for any data model customizations. The ERwin file is delivered as a patch and should be downloaded separately. This file can be used for any type of customizations of the data model.
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 schema, atomic schema, and sandbox schemas should be of 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. These Privileges should be given to Production Schema and Sandbox Schemas (essentially all the Atomic schemas).

- Add an Atomic schema TNS entry to TNSNames.ora.

- The following grants must be given to atomic schema user (Both production and Sandbox)
  - 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>>
Installation Manual

- 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 (Both production and Sandbox):
  - Grant select on PR2_OBJECT_TL to <<ATOMIC_USER>>
  - Grant select on PR2_OBJECT_TYPES to <<ATOMIC_USER>>
  - Grant select on PR2_RULE_B to <<ATOMIC_USER>>
  - Grant select on PR2_RUN_B to <<ATOMIC_USER>>

- Copy all the contents of the Oracle Financial Services Market Risk Release 2.5.1.0.0 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
  <?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"/>
  </appender>
  </log4j:configuration>
  ```

  Ensure the path given in the log4j.xml file has read, write or execute permission.

- Execute the `config_table_privileges_for_atomic_user.sql` script in configuration schema. This file is present in the $FIC_HOME directory.

- 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_$PARAMETER to &atomic_db_user;
  - Grant select on V_$PARAMETER to &sandbox_db_user;

- Check for "export LDR_CNTRL=MAXDATA=0x40000000" in the .profile, if present then comment it, 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.
  - You have the option either to do an incremental or a sliced model upload.
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.

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 multi tier 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 Market Risk cannot be installed on more than one Information Domain within the same OFSAA setup.

- Execute the below insert scripts in the existing Configuration Schema (this is applicable only for an upgrade activity, Ignore this step if entry already present in configuration table).

**Note:**
Replace the ##PROD_INFODOM## to production information domain name and ##MRSAND_INFODOM## to sandbox information domain name in the below query.

```
INSERT INTO CONFIGURATION (PARAMNAME, PARAMVALUE, DESCRIPTION) VALUES('MR_##PROD_INFODOM##_MRSAND', '##MRSAND_INFODOM##', 'Sandbox dsnid(MRSAND) mapped to production infodom').
```

### 2.5 Pre-Upgrade Activities

This section is applicable only for users upgrading from OFS Market Risk version 2.5.0.0.0 to OFS Market Risk version 2.5.1.0.0.

**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:**

1) Delete scripts for specific metadata objects that have an impact on the columns being dropped by the application. This will be executed by the installer as a pre-model upload step.
2) Data backup scripts for the application related tables are executed as part of pre-model upload scripts. The data is deleted from the back up tables. The installer executes these scripts.

3) Drop all the tables which were created using scripts in Market Risk version 2.5.0.0.0 and which are a part of the Market Risk version 2.5.1.0.0 data model. Pre model scripts include drop statements for these tables.

4) Delete scripts for the metadata, which has been updated or deleted. This will be executed as part of the pre-model upload scripts.

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

Upgrade from OFS Market Risk 2.5.0.0.0

The following steps are applicable for customers upgrading from OFS Market Risk version 2.5.0.0.0. You need to perform these steps before proceeding with installation.

Database changes

1) Create a backup of the table rev_etl_mapping in the config schema.

   Create table rev_etl_mapping_mr25 as select * from rev_etl_mapping;

2) Execute the following scripts in the Config Schema. Data into this table is related to mapping information.

   delete from rev_etl_mapping;
   commit;

1) 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 /
   ALTER TABLE PR2_RUN_EXECUTION_B_1 /
Data Model Changes

If Data model is not customized, following steps will be done by the upgrade installer. The new RPD and Catalog needs to be deployed manually:

1) OFS Market Risk version 2.5.1.0.0 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 MR Data model on Left Model, in the Compare window.
4. Select the extracted MR 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 MR_Datamodel Diff_2.5_ v 2.5.1.xls file.
8. Click "Finish" and click "Close".
9. Save the file as XML in "AllFusion Repository Format".

Example: MR_Datamodel.xml

The metadata and the PR2 objects that were available in OFS Market Risk 2.5.0.0.0 and not used in any segments of OFS Market Risk 2.5.1.0.0 are deleted during the pre upgrade process.
3. Installing the Analytical Application

3.1 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.

3.2 OFS Market Risk Release 2.5.1.0.0 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 multtier architecture, the Oracle Financial Services Market Risk Release 2.5.1.0.0 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 Market Risk Release 2.5.1.0.0 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 multtier 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 information 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 Market Risk 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.

![Screenshot of the pre-infodom creation summary](image)

**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 Market Risk Release 2.5.1.0.0, Sandbox 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 Sandbox creation process through the installer.

- Click **Yes**, if you wish to configure the sandbox. The installer seeks details for new information domain creation for sandbox.
Creating a new information domain for NONSAND Sandbox

Step 9-i:

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

Click Next to continue.

Step 9-ii

In the next screen prompt, enter the following details:

- Specify the name and description of the new information domain for sandbox to be created.
- Specify the application server and database server log path for infodom maintenance (to be created).
Step 9-iii

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

---

Step – 10

Oracle Financial Services Market Risk Release 2.5.1.0.0, 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.
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 Oracle Financial Services Market Risk is already uploaded. To proceed with the application model upload process as part of the installation click Yes. Click Next to proceed.

If you select No go to Step 12 or else go to Step 10.

Step – 11
In the following screen prompt choose whether the released version of the datamodel or the customized datamodel is to be uploaded.
If **Released Data Model** option is selected, then the installer uploads the Oracle Financial Services Market Risk Release 2.5.1.0.0, data model.

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

If **Released Data Model** is selected go to **Step 12** or else go to **Step 11**.

Click **Next** to proceed.

**Step – 12**

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.
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 13**

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 FICServv.

**Step 14**

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 will 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.
Installation Manual

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 Market Risk 2.5.1.0.0 Setup. Click **Done** to exit.
3.2.2 Machine B – Product Database Layer

Step 1

To begin with the Oracle Financial Services Market Risk Release 2.5.1.0.0 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.

![Installation Screen](image)

Step 9

The following screen prompt displays the completion of installation of the Oracle Financial Services Market Risk Release 2.5.1.0.0 setup.

i) Click **Done** to exit.
3.2.3 Machine C – Product Web Layer

Step 1

To begin with the Oracle Financial Services Market Risk Release 2.5.1.0.0 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.

![Installation Manual](image)

**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 OFSAI User ID.

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

**Example:** *Web Layer*

![Image of Pre-Setup Information screen](image)

**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 multtier 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 Market Risk Release 2.5.1.0.0 setup. Click **Done** to exit.
3.3 OFS Market Risk Release 2.5.1.0.0 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:

<table>
<thead>
<tr>
<th>Silent.Props.xls</th>
</tr>
</thead>
</table>

3.4 Post Installation Activities

Once the installation of Oracle Financial Services Market Risk Release 2.5.1.0.0 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.
• Create a connection pool in the infodom. For more information refer to the **OFSAAI 7.3.0.0.0 Installation manual**.

• Map the Roles to the User Group in the Front End manually.

• 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.

• Map the sandbox segment names to a user group manually.

• 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 file into webserver. For more information on deploying the war file refer the **OFSAAI 7.3.0.0.0 Installation manual**.

• Execute the following queries in Config Schema:

```sql
UPDATE METADATA_MASTER SET CREATION_DT = SYSDATE WHERE METADATA_VERSION=0 AND DSN_ID = '<<INFODOM>>' AND CREATION_DT IS NULL
/
COMMIT
/
```

**Note:** Replace `<<INFODOM>>` with the infodom that was created.

• 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 “Market Risk”, to the user to access the Market Risk Link.

• If you are installing Oracle Financial Services Market Risk Release 2.5.1.0.0 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 set up data and executing the SCD batch.
• The below scripts has to be enabled (only for upgrade activity):

```sql
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
```

• Recompile all the Functions, procedures and views.

NOTE:

Ignore the following error in the installer log:

```
ORA-00001: unique constraint (ERMATOM.PK_REV_BIHIER) violated.
ORA-00955 name is already used by an existing object.
```

The Oracle Financial Services Market Risk Release 2.5.1.0.0 application is now ready to be used.

If you encounter any problems during setup, please contact OFSAA Support at [Oracle Support](http://www.oracle.com).