

Oracle Financial Services
Regulatory Reporting
Installation Guide

Release 2.4
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About This Guide

This guide provides comprehensive instructions for installing and configuring the Oracle Financial Services Regulatory Reporting (herein referred to as OFSRR).

This chapter focuses on the following topics:

- Who Should Use this Guide
- How this Guide is Organized
- Where to Find More Information
- Conventions Used in this Guide

Who Should Use this Guide

The *Oracle Financial Services Regulatory Reporting Installation Guide* is designed for use by Oracle Financial Services Regulatory Reporting application users. Their roles and responsibilities, as they operate within the OFSRR application, include the following:

- **Oracle Financial Services Installer:** This user installs and configures Oracle Financial Services Applications and client-specific solution sets at a deployment site. This user also installs and upgrades additional solution sets. It requires access to deployment-specific configuration information (For example, machine names, and port numbers).
- **System Administrator:** This user configures, maintains, and adjusts the system and is usually an employee of a specific Oracle Financial Services client. The System Administrator maintains user accounts and roles, archives data, and loads data feeds.

How this Guide is Organized

The *Oracle Financial Services Regulatory Reporting Installation Guide* , includes the following topics:

- Chapter 1, *Preparing to Install*, details prerequisites, environment, and installation checklist necessary for installing OFSRR.
- Chapter 2, *Installation Activities*, describes the step-by-step instructions to install the OFSRR application.
- Chapter 3, *Post-Installation Activities*, details the steps that are to be performed after installation of OFSRR.

Where to Find More Information

For more information about Regulatory Reporting, refer to the following documents:

- *Oracle Financial Services Regulatory Reporting Administration Guide, Release 2.4*
- *Oracle Financial Services Regulatory Reporting Data Model Reference Guide, Release 2.4*
- *Oracle Financial Services Regulatory Reporting User Guide, Release 2.4*
- *Oracle Financial Services Regulatory Reporting Web Services Guide, Release 2.4*
- *Oracle Financial Services Regulatory Reporting Release Notes, Release 2.4*

To learn more about Oracle Financial Services and our complete product line, refer to our Web site www.oracle.com/financialservices

Conventions Used in this Guide

Table 1 lists the conventions used in this guide.

Table 1. Conventions Used in this Guide

Convention	Meaning
<i>Italics</i>	<ul style="list-style-type: none">● Names of books, chapters, and sections as references● Emphasis
Bold	<ul style="list-style-type: none">● Object of an action (menu names, field names, options, button names) in a step-by-step procedure● Commands typed at a prompt● User input
Monospace	<ul style="list-style-type: none">● Directories and subdirectories● File names and extensions● Process names● Code sample, including keywords and variables within text and as separate paragraphs, and user-defined program elements within text
<Variable>	Substitute input value

This chapter provides information about system hardware and software requirements and pre-installation activities. This chapter includes the following topics:

- Environment
- Pre-requisites
- Pre-Installation Activities
- Installation Checklist
- Populating the GRC_InstallConfig.xml

Environment

The OFSRR application is installed using the hardware and software environments as described in the following table:

Table 2. Environment Details

Back- End Environment	Hardware	Software
AIX 6.1 or OEL 5.3/5.5 or RHEL 5.3/5.5 or Oracle Solaris 10	64-bit x 86 Architecture	<ul style="list-style-type: none"> ● Oracle 11g R2 (11.2.0.2) - 64 bit ● Java 1.6.0_ [Latest Update]- 64 bit ● Websphere 7.0.0. [Latest Update]- 64bit or Weblogic 10.3.[Latest Update] - 64 bit ● Oracle Financial Services Financial Crime and Compliance Management 6.2.1 ● Oracle Financial Services Financial Crime and Compliance Management must be integrated with OFSRR. Contact Oracle support for any mandatory patch to be applied before installing Regulatory Reporting. ● Oracle Financial Services Analytical Application Infrastructure 7.3.3 IR <p>Note: Contact Oracle Support for any mandatory patch requirement before installing Regulatory Reporting.</p>
Front-End Client Access		<ul style="list-style-type: none"> ● Java Plug-in 1.6.0_ [Latest Update] ● Windows 7 ● Microsoft Internet Explorer 8.0 / 9.0 ● Adobe Reader 8.0 or later, ● Microsoft Office 2007

Pre-requisites

The following are the prerequisites for installing OFSRR:

1. Oracle Financial Services Behavior Detection Framework (OFSBDF) must be installed and configured. Refer to the *Oracle Financial Services Behavior Detection Framework: Installation Guide - Stage1 Release 6.2.1*, for more information.

Note: If you are already using an Oracle Mantas 5.x product or Oracle Financial Services Financial Crime and Compliance Management (OFSFCCM), then it is not required to install OFSBDF again.

2. Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) must be installed and configured. Refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Release 7.3*, for more information.

Note:

- a. If you already have an OFSAAI 7.3.3 platform installed then you can use same platform for OFSRR installation.
3. Oracle Financial Services Financial Crime and Compliance Management (OFSFCCM) must be installed and configured. For more information on installing and configuring, refer to the *Oracle Financial Services Financial Crime and Compliance Management Installation Guide, Stage 3 Release 6.2.1*.

Note: If you already have OFSFCCM installed, do not install it again.

Pre-Installation Activities

This section explains activities to be performed before installing OFSRR.

1. The OFSRR installer will update OFSAAI platform files and database tables. The uninstallation functionality is also available with OFSRR installer. However, to avoid any unprecedented errors, take a backup of the following before installing OFSRR:
 - a. OFSAAI configuration database schema. For more information, refer to the `config_user` Installation variable in the *OFSBDF Installation Guide Stage 1* or refer to the `DBUSER` installation variable in the *OFSAAI Installation Guide*.
 - b. OFSAAI installation directory. For more information, refer to the `USER_INSTALL_DIR` installation variable in the *OFSAAI Installation Guide*.
 - c. ftpshare directory. For more information, refer to the `DB_DRIVE_TM`, `APP_DRIVE_TM` and `WEB_DRIVE` installation variable in the *OFSAAI Installation Guide*.

Note: If the DSN ID for any of the information domains (infodoms) are more than 10 characters in length, then make sure to apply the patch for the issue # 17469159. Contact Oracle Support to obtain the necessary patches.

2. Extract the following contents from the media pack to a folder on the machine that hosts the OFSAAI platform:
 - a. `Setup.bin`
 - b. `Setup.sh`
 - c. `validateXMLInputs.jar`
 - d. `log4j.xml`

- e. GRC_InstallConfig.xml
- f. DataModel
- g. ProductSuppliedMetadata

Note: Setup.bin and validateXMLInputs.jar should be copied in binary mode. All other files should be copied in text mode. After copying above files in UNIX server, provide Read, Write, and Execute permission on these files to the unix user being used for OFSRR installation.

Installation Checklist

Table 3 lists the Installation Checklist to be followed to complete the installation of OFSRR.

Table 3. Installation Checklist

#	Task	Done (Y/N)
1	All the required software/hardware should be installed and configured. Refer to <i>Environment</i> , on page 1, for more information.	
2	Ensure the OFSBDF is installed. Note: You can ignore this step if you are already using Oracle Mantas 5.x or OFSFCCM.	
3	Ensure the OFSAAI is installed and configured. You can ignore this step if you already have an OFSAAI platform.	
4	Ensure the OFSFCCM is installed. You can ignore this step if you already have OFSFCCM application.	
5	Check the <i>OFSRR Release Notes</i> and <i>Read Me</i> document for any additional steps to be performed on OFSBDF, OFSFCCM, or OFSAAI before installing OFSRR. For more details, contact Oracle support.	
6	Verify that the OFSAAI server is running.	
7	Create a copy of GRC_InstallConfig.xml as GRC_InstallConfig.xml.bak and add values in GRC_InstallConfig.xml. For more information, refer to <i>Populating the GRC_InstallConfig.xml</i> , on page 4.	
8	Make sure a database user having DBA privilege along with password is available with you. Contact your Database Administrator for more details.	
9	Make sure the database data file (*.dbf) path is available with you. This path is required while creating tablespace. Contact your Database Administrator for more information about this path.	
10	Install OFSRR Application. For more information, refer to <i>OFSRR Application Installation</i> , on page 17.	
11	Perform Post Installation steps. For more information, refer to <i>Chapter 3, Post-Installation Activities</i> , on page 19.	

Populating the GRC_InstallConfig.xml

This section explains the variable values to populate the GRC_InstallConfig.xml file.

To populate GRC_InstallConfig.xml, follow these steps:

1. Open the existing GRC_InstallConfig.xml under the OFSRR installer kit directory and enter the required input parameters as below:

This file contains the following four sections:

- GENERAL
- APPLICATION
- DATABASE
- WEB

Note:

1. For all the installation layers, GENERAL section information is mandatory.
2. This installation guide assumes that the OFSAAI is installed as a Single Tier installation. For more details, refer to section *Infrastructure Installation Options* in the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide*.
3. If OFSAAI is installed as a Multi-Tier Installation, then follow the additional steps provided in the following sections.
4. GRC_InstallConfig.xml contains placeholders, in the format ##<PLACEHOLDER Name>##, wherever user input is required. Replace these placeholders with the corresponding values as mention below against each one of these placeholders.

GENERAL Section

The GENERAL section (<Layer name="GENERAL">) contains the following placeholders to provide the variable values specific to your environment:

Table 4. Placeholders in layer - GENERAL

PLACEHOLDERS	Description
##CUST_ID##	<p>Replace this placeholder with Customer Code used during OFSAAI Installation. Refer to Customer Code variable in section Layers within the OFSAAI_InstalConfig.xml in the <i>OFSAAI Installation Guide</i>.</p> <p>For example: <pre><VariableGroup name="OFSAAI_INFRASTRUCTURE_CUSTOMER_CODE"> <Variable name="CUSTID">OFSAAICUSTID</Variable> </VariableGroup></pre></p>
##PRE_INSTALL##	<p>This variable is used to identify whether the OFSRR installer will perform the following Pre-Installation activities:</p> <ul style="list-style-type: none"> ● Information domain and Segment Creation for OFSRR atomic schema. ● Data Model Upload for OFSRR atomic schema. <p>Replace this placeholder with either of the following values: - Allowable values are 0 and 1</p> <ul style="list-style-type: none"> ● 1 - If the user wants the above Pre-Installation steps to be performed by installer ● 0 - If the user has performed all the above steps through OFSAAI UI. <p>For example: <pre><VariableGroup name="PRE_INSTALLATION"> <Variable name="PRE_INSTALL">1</Variable> </VariableGroup></pre></p> <p>Note: Oracle recommends OFSRR Installer to perform all these steps.</p>
##PRE_INSTALL_DB##	<p>This variable is used to identify whether the installer will perform the following Pre-Installation activities:</p> <ul style="list-style-type: none"> ● OFSRR Atomic Schema Creation in database ● OFSRR Table Space creation in database <p>Replace this placeholder with either of the following values: Allowable values are 0 and 1</p> <ul style="list-style-type: none"> ● 1 - If user wants one or more of the above Pre-Installation steps to be performed by installer ● 0 - If the user has already performed the above tasks manually into database <p>For example: <pre><VariableGroup name="PRE_INSTALLATION_DB_OBJECTS"> <Variable name="PRE_INSTALL">1</Variable> </VariableGroup></pre></p> <p>Note: Oracle recommends that the OFSRR Installer performs all these steps.</p>

Table 4. Placeholders in layer - GENERAL (Continued)

PLACEHOLDERS	Description
##INFODOM_1##	<p>This variable is used to specify the OFSRR Information Domain name. Replace this placeholder with the OFSRR Information domain name in either of the following cases:</p> <ul style="list-style-type: none"> ● If it has been already created from OFSAAI UI, then specify the Information Domain Name. Make sure you have updated place holder ##PRE_INSTALL## as 0. ● If it is to be created by OFSRR installer then add a name by adhering to the following naming convention. Make sure you have updated place holder ##PRE_INSTALL## as 1. <p>Make sure to follow the following conventions while giving a new Information Domain Name:</p> <ul style="list-style-type: none"> ● Ensure that the Information Domain name specified is of minimum 6 characters length. ● Ensure that the Information Domain name does not contain any special characters or extra spaces. ● Ensure that the maximum length of Information Domain name should be less than or equal to 20 characters. <p>For example: <Variable name="INFODOM_NAME">OFSRRINFODOM</Variable></p>

Table 4. Placeholders in layer - GENERAL (Continued)

PLACEHOLDERS	Description
##SEGMENT_1##	<p>This variable is used to specify the OFSRR Segment Code.</p> <p>Replace this placeholder with OFSRR Segment Code in either of the following cases:</p> <ul style="list-style-type: none"> ● If it has been already created from OFSAAI UI then specify the Information Domain Name. Make sure you have updated place holder ##PRE_INSTALL## as 0. ● If it is to be created by OFSRR installer then add a name by adhering to the following naming convention. Make sure you have updated place holder ##PRE_INSTALL## as 1. <p>Make sure to follow these conventions while giving a new Segment Code:</p> <ul style="list-style-type: none"> ● Enter a unique segment code ● Ensure that the segment code specified is of minimum 6 characters length ● Ensure that there are no special characters and extra spaces in the code entered. ● Ensure that maximum length of Segment Code should be less than or equal to 10 characters <p>For example: <code><Variable name="SEGMENT_CODE">OFSRRSEG</Variable></code></p>
##FTPSHARE_PATH##	<p>This variable is used to identify the common share area path.</p> <p>Replace this placeholder with the same path as configured during OFSAAI Installation. Refer to section APP_DRIVE_TM while installing OFSAAI. For more information, refer to the <i>Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide</i>.</p> <p>For example: <code><VariableGroup name="LOCAL_FTPSHARE_PATH"> <Variable name="FTPSHARE_PATH">/home/ftpshare</Variable> </VariableGroup></code></p>

Layer - APPLICATION

The Layer APPLICATION (<Layer name="APPLICATION">) consists of the following placeholders, which must be replaced for the installation of Application Layer.

Table 5. Placeholders in layer - APPLICATION

PLACEHOLDERS	Description
##APP_LAYER##	<p>This variable is used to identify the OFSRR Application Layer component to be installed on the same UNIX server where OFSAAI application layer is installed. Allowable values for this placeholder are 0 and 1. Replace this placeholder with</p> <ul style="list-style-type: none"> ● 1 – if APPLICATION Layer component is to be installed ● 0 – if APPLICATION Layer component is not to be installed <p>Replace the place holder with 1 in case if OFSAAI is installed as Single – Tier mode.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. OFSRR installer to be invoked in each machine where each layer is hosted in case of Multi-Tier OFSAAI setup. 2. For Multi-Tier installation, this value must be set to 1 for Application layer installation. For Database or Web layer installation, this value must set to 0. 3. For Multi –Tier installation, OFSRR installer to be invoked in the UNIX server in the following order: <ol style="list-style-type: none"> a. Application layer b. Database Layer c. Web Layer
##RRS_ATOMIC_USER##	<p>This variable is used to identify the OFSRR Atomic User. The OFSRR installer will create a database user in this name to hold all OFSRR application datamodel.</p> <p>Replace the placeholder with the OFSRR Atomic Schema Name.</p> <p>For example:</p> <pre><VariableGroup name="RRSATOMICUSER"> <Variable name="ATOMIC_SCHEMA_USER_NAME">RRSUSER</Variable> </VariableGroup></pre>
##APP_LOG_PATH##	<p>Enter an existing path in the Unix server on which the Application layer is being installed. This directory stores logs generated during Document Upload and Excel Upload.</p> <p>For example:</p> <pre><Variable name="APP_LAYER_LOG_PATH">/home/OFSRR_Application_layer</Variable></pre>

Table 5. Placeholders in layer - APPLICATION (Continued)

<p>##DB_LOG_PATH##</p>	<p>Enter an existing path in the Unix server on which the Database layer is being installed. This directory stores logs generated during Document Upload and Excel Upload.</p> <p>For example: <code><Variable name="DB_LAYER_LOG_PATH">">/home/OFSRR_Database_layer</Variable></code></p>
<p>##TABLESPACE_FLAG_1##</p>	<p>This variable is used to identify whether the user wants to create tablespaces to hold OFSRR application tables and indexes in the database. Allowable values for this placeholder are 0 and 1. Replace this placeholder with the following:</p> <ul style="list-style-type: none"> ● 1 – if Tablespaces are to be created ● 0 – if Tablespaces are already available <p>For example: <code><ActionGroup name="CREATE_TABLESPACE" flag="1"></code></p>
<p>##TABLESPACE_NAME_1##</p>	<p>This variable is used to identify the Tablespace name where the OFSRR application tables will be created.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with a valid string to be used as table space name.</p> <p>For example: <code><Variable name="TABLESPACE_NAME">RRS_DATA</Variable></code></p>
<p>##TABLESPACE_FILE_1##</p>	<p>This variable is used to identify the *.dbf file path where ##TABLESPACE_NAME_1## will be created.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with the absolute path of the datafile for the Tablespace name given above.</p> <p>For example: <code><Variable name="TABLESPACE_FILE_PATH">/software/oracle/RRS_DATA.dbf</Variable></code></p> <p>Note: Contact your Database Administrator to get the the path.</p>
<p>##BLOCK_SIZE_1##</p>	<p>This variable is used to identify Tablespace Block Size.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with 8</p> <p>For example: <code><Variable name="TABLESPACE_BLOCK_SIZE">8</Variable></code></p> <p>Note: Contact your DBA to get more details.</p>

Table 5. Placeholders in layer - APPLICATION (Continued)

<p>##TABLESPACE_SIZ E_1##</p>	<p>This variable is used to identify the Tablespace Size in MB.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with the Tablespace size in MB for the Tablespace name given above. The minimum value should be 500 MB.</p> <p>For example: <Variable name="TABLESPACE_SIZE">500</Variable></p> <p>Note: The installer will create Table space with Auto extend OFF. Contact your DBA, in case you require auto –extend ON after installation is completed.</p>
<p>##TABLESPACE_NAM E_2##</p>	<p>This variable is used to identify the Tablespace name where the OFSRR application tables index will be created.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with a valid string to be used as table space name.</p> <p>For example: <Variable name="TABLESPACE_NAME">RRS_INDEX</Variable></p>
<p>##TABLESPACE_FIL E_2##</p>	<p>This variable is used to identify the *.dbf file path where ##TABLESPACE_NAME_2## will be created.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with the absolute path of the datafile for the Tablespace name given above.</p> <p>For example: <Variable name="TABLESPACE_FILE_PATH">/software/oracle/RRS_INDEX.dbf</Variable></p> <p>Note: Contact your DBA to get the path.</p>
<p>##BLOCK_SIZE_2##</p>	<p>This variable is used to identify the Tablespace Block Size .</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with 8.</p> <p>For example: <Variable name="TABLESPACE_BLOCK_SIZE">8</Variable></p> <p>Note: Contact your DBA to get more details.</p>

Table 5. Placeholders in layer - APPLICATION (Continued)

<p>##TABLESPACE_SIZE_2##</p>	<p>This variable is used to identify the Tablespace Size in MB.</p> <p>This value is required only if ##TABLESPACE_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with the Tablespace size in MB for the Tablespace name given above. The minimum value should be 500 MB.</p> <p>For example: <Variable name="TABLESPACE_SIZE">500</Variable></p> <p>Note: The Installer will create a Tablespace with Auto extend OFF. Contact your DBA in case if it requires auto extend ON.</p>
<p>##CREATE_USER_FLAG_1##</p>	<p>This variable is used to identify the OFSRR Atomic User to be created by the installer.</p> <p>Allowable values for this placeholder are 0 and 1. Replace this placeholder with</p> <ul style="list-style-type: none"> ● 1 – if Atomic User for OFSRR is to be created by installer ● 0 – if Atomic User for OFSRR is already created <p>For Example: <ActionGroup name="CREATE_DB_USER" flag="1"></p>
<p>##USER_DEFAULT_TABLESPACE_1##</p>	<p>This variable is used to identify the Tablespace name to be used as a default tablespace for the OFSRR atomic user.</p> <p>This value is required only if ##CREATE_USER_FLAG_1## and ##PRE_INSTALL_DB## have been replaced by 1.</p> <p>Replace this placeholder with the same name as given in place of ##TABLESPACE_NAME_1##.</p> <p>For example: <Variable name="USER_DEFAULT_TABLESPACE">RRS_DATA</Variable></p>
<p>##INFODOM_FLAG_1##</p>	<p>This variable is used to identify the OFSRR Information Domain to be created by the installer.</p> <p>Allowable values for this placeholder are 0 and 1. Replace this placeholder with</p> <ul style="list-style-type: none"> ● 1 – if Infodom for OFSRR is to be created ● 0 – if Infodom for OFSRR is already created <p>For Example: <ActionGroup name="CREATE_INFODOM" flag="1"></p>

Table 5. Placeholders in layer - APPLICATION (Continued)

<pre>##INFODOM_DESC_1##</pre>	<p>This variable is used to identify the OFSRR Information Domain Description.</p> <p>This value is required only if ## INFODOM_FLAG_1## and ##PRE_INSTALL## has been replaced by 1.</p> <p>Replace this placeholder with a description for the OFSRR Information Domain by following these conventions:</p> <ul style="list-style-type: none"> ● Ensure the description field is not empty ● Ensure the description field should not exceed 100 characters. <p>For example: <code><Variable name="INFODOM_DESCRIPTION">RRSInfodom</Variable></code></p>
<pre>##DB_NAME_1##</pre>	<p>This variable is used to identify the Database Name where the OFSRR Atomic schema is created .</p> <p>This value is required only if ## INFODOM_FLAG_1## and ##PRE_INSTALL## has been replaced by 1.</p> <p>Replace this placeholder with a name for the OFSRR Database by following these conventions:</p> <ul style="list-style-type: none"> ● Ensure that there are no special characters and extra spaces in the name. ● Ensure the length of database Name should not exceed 20 characters. ● Ensure that the name is unique. <p>For example: <code><Variable name="DATABASE_NAME">RRSDB</Variable></code></p>
<pre>##MODEL_UPLOAD_FLAG_1##</pre>	<p>This variable is used to identify whether the Data Model Upload for OFSRR is to be done through the Installer.</p> <p>Allowable values for this placeholder are 0 and 1. Replace this placeholder with</p> <ul style="list-style-type: none"> ● 1 – if the Data Model Upload for OFSRR is to be done through the Installer ● 0 – if the Data Model Upload for OFSRR is already completed <p>For Example: <code><ActionGroup name="DATA_MODEL_UPLOAD" flag="1"></code></p>
<pre>##DM_TYPE_1##</pre>	<p>This variable is used to identify the type of Data Model upload for OFSRR that is to be done through the Installer.</p> <p>This value is required only if ##MODEL_UPLOAD_FLAG_1## and ##PRE_INSTALL## have been replaced by 1.</p> <p>Replace this placeholder with the type of DataModel upload to be performed. Allowable value is 0.</p> <p>For example: <code><Variable name="DATAMODEL_TYPE">0</Variable></code></p>

Table 5. Placeholders in layer - APPLICATION (Continued)

<pre>##LOGICAL_UPLOAD_1##</pre>	<p>This variable is used to identify if the Data Model Upload for RRS is to be Logical or otherwise.</p> <p>This value is required only if ##MODEL_UPLOAD_FLAG_1## and ##PRE_INSTALL## have been replaced by 1.</p> <p>Replace this placeholder with the type of DataModel upload to be performed. Allowable value is 0.</p> <p>For example: <Variable name="LOGICAL_UPLOAD">0</Variable></p>
<pre>##DM_FILE_PATH_1##</pre>	<p>This variable is used to identify the Data Model file path used for the RRS Data Model upload.</p> <p>This value is required only if ##MODEL_UPLOAD_FLAG_1## and ##PRE_INSTALL## have been replaced by 1.</p> <p>Replace this placeholder with the absolute path of the DataModel file available with the Installer kit.</p> <p>For example: <Variable name="DATAMODEL_FILE_PATH">/home/OFSRRkit/DataModel/RReport_DM.xml</Variable></p>

Layer - DATABASE

The Layer DATABASE (<Layer name="DATABASE">) contains the following placeholders, which must be configured for installation of the Database Layer.

Table 6. Placeholders in Layer-DATABASE

PLAEHOLDERS	Description
##DB_LAYER##	<p>This variable is used to identify the OFSRR Database Layer component to be installed on the same UNIX server where the OFSAAI Database layer is installed.</p> <p>Allowable values for this placeholder are 0 and 1. Replace this placeholder with</p> <ul style="list-style-type: none"> ● 1 – if Database Layer component is to be installed ● 0 – if Database Layer component is not to be installed <p>Replace the place holder with 1 in case if OFSAAI is installed as Single – Tier mode.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. OFSRR installer should be invoked in each machine where each layer is hosted in a Multi-Tier OFSAAI setup. 2. For Multi-Tier installation, this value must be set to 1 for Database layer installation. For Application or Web layer installation, this value must be to be set to 0. 3. For Multi –Tier installation, OFSRR installer should be invoked in the UNIX server in the following order <ol style="list-style-type: none"> a. Application layer b. Database Layer c. Web Layer
##DB_URL##	<p>Replace this placeholder with the OFSAAI Configuration Schema Database URL for connection purposes.</p> <p>For example:</p> <pre><Variable name="DATABASE_URL">jdbc:oracle:thin:@unix.oracle.com:1521:RRDB</Variable></pre> <p>Refer to value of DEFAULT_CONNECTION_URL parameter in the file- <Application layer installed directory>/conf/-DynamicServices.xml</p>
##DB_DRIVER##	<p>Replace this placeholder with the OFSAAI Configuration Schema Database Driver for connection purposes.</p> <p>For example:</p> <pre><Variable name="FICMASTER_DRIVER">oracle.jdbc.driver.OracleDriver</Variable></pre> <p>Note: Refer to the value of the DEFAULT_DRIVER parameter in the file- <Application layer installed directory>/conf/-DynamicServices.xml</p>

Table 6. Placeholders in Layer-DATABASE (Continued)

PLAEHOLDERS	Description
##CONFIGURATION_USER##	<p>Replace this placeholder with the value of the OFSAAI Configuration Schema user.</p> <p>For example: <Variable name="FICMASTER_USER">CONFIG_USER</Variable></p> <p>Refer to the <code>config_user</code> Installation variable in the <i>OFBDF Installation Guide</i> or refer to the <code>DBUSER</code> installation variable in the <i>OFSAAI Installation Guide</i>.</p>
##DATA_TABLESPACE_1##	<p>Replace this placeholder with the OFSRR Tablespace Name given in place of ##TABLESPACE_NAME_1##.</p> <p>For example: <Variable name="DATA_TABLE_SPACE">RRS_DATA</Variable></p>
##INDEX_TABLESPACE_1##	<p>Replace this placeholder with the OFSRR INDEX Tablespace Name given in place of ##TABLESPACE_NAME_2##.</p> <p>For example: <Variable name="INDEX_TABLE_SPACE">RRS_INDEX</Variable></p>

Layer - WEB

The Layer WEB (<Layer name="WEB">) contains the following placeholders which must be configured for installation of the WEB layer:

Table 7. Interaction Groups in Layer - WEB

PLACEHOLDERS	Description
##WEB_LAYER##	<p>This variable is used to identify the OFSRR Web Layer component to be installed on the same UNIX server where the OFSAAI Web layer is installed. Allowable values for this placeholder are 0 and 1. Replace this placeholder with</p> <ul style="list-style-type: none"> ● 1 - if Web Layer component is to be installed ● 0 - if Web Layer component is not to be installed <p>Replace the place holder with 1 if OFSAAI is installed as Single - Tier mode.</p> <ol style="list-style-type: none"> 1. OFSRR installer to be invoked in each machine where each layer is hosted in case of Multi-Tier OFSAAI setup. 2. For Multi-Tier installation, this value must be set to 1 for Web layer installation. For Application or Database layer installation, this value must be to be set to 0. 3. For Multi -Tier installation, the OFSRR installer to be invoked in the UNIX server in the following order: <ol style="list-style-type: none"> a. Application layer b. Database Layer c. Web Layer
##CONFIGURATION_USER##	<p>Replace this placeholder with the value of the OFSAAI Configuration Schema user.</p> <p>For example: <code><Variable name="FICMASTER_USER">CONFIG_USER</Variable></code></p> <p>Refer to the <code>config_user</code> Installation variable in the <i>OFSBDF Installation Guide</i> or refer to the <code>DBUSER</code> installation variable in the <i>OFSAAI Installation Guide</i>.</p>

OFSRR is comprised of the components that are installed in the Application, Database, and Web layers. If OFSAAI is installed in a Multi-Tier option, then the OFSRR installer must be invoked on each machine that hosts different layers. This chapter describes the installation process in which the OFSAAI is installed using Single-Tier option.

Note: For a Single-Tier installation, the installer is required to be invoked only once on the machine that hosts all the OFSAAI layers. For a Multi-Tier installation, the installation should be done in the following order:

- Application Layer
- Database Layer
- Web Layer

OFSRR Application Installation

To install OFSRR, follow these steps:

1. Verify that the OFSAAI server is running.
2. Verify that the OFSRR Installer files having execute permission for the user who is performing the installation.
3. Verify that the `ftpshare` directory has read and write permission for the user who is performing the installation. For more details refer to `LOCAL_FTPSHARE_PATH` in `GRC_InstallConfig.xml`.
4. Before starting the OFSRR installation, execute `.profile` to set the environment variables, by executing the following command from the home directory of the user installing OFSRR.

```
. ./profile
```

5. Navigate to the directory where the OFSRR installer files are present and invoke the `Setup.sh` with the parameter `SILENT`.

```
./Setup.sh SILENT
```

6. Enter the following values when prompted by `Setup.sh`:

- a. Enter **DBA User Name**: Enter the name of the database user having DBA privileges.

Note: If your DBA user is having `sysdba` privilege, then enter `<user name>` as `sysdba`, for example `sys` as `sysdba`. If you are planning to use `system` user (oracle default user), then enter only `system`.

- b. Enter **DBA User Password**: Enter the DBA user password.

- c. Re-enter DBA User Password: Enter the DBA user password.

- d. **RRS Atomic Schema Password**: Enter the password to be set for the OFSRR atomic schema user.

- e. Re-enter RRS Atomic Schema Password: Enter the same password entered in the previous step.

Note: If you have configured the `GRC_InstallConfig.xml` for not creating OFSRR atomic user, then the Installer will not ask for information listed from steps a to c.

- f. Wait in the same UNIX session till you see the following message: *Installation Complete*.

Exit status of installer: 0

Installation completed. cross-check logs for any errors

7. Analyze the following log files for any error which may have occurred during installation:
 - a. **SolutionSetup_InstallLog.log**, which is created in the OFSRR installed directory. For more information on the installation directory, refer to the `USER_INSTALL_DIR` installation variable in the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide*.
 - b. **RRS_LOG.log** created at the same path from where installer was invoked.

This chapter discusses the post-installation steps of OFSRR.

Once the installation of OFSRR is completed, you must perform the following post installation steps.

This chapter covers the following topics:

- Web Layer Configuration
- Create Users, Load Reference Data, and Other Related Activities
- Integrating with OFSFCCM/Oracle Mantas 5.x
- Database Layer Configuration
- Accessing OFSRR

Web Layer Configuration

1. Create a data source for the OFSRR Information Domain by providing the OFSRR atomic schema user name and password. For more information, refer to the *Create Data Source* section in the *Oracle Financial Services Application Infrastructure Installation and Configuration Guide*.
2. Un-deploy the already deployed `<CONTEXT_PATH>.ear` file.
3. Deploy the `<CONTEXT_PATH>.earfile`, present at `<OFSAAI installed directory>/ficweb`, in the Web Application Server.
Note: Refer to section *Post Installation Configuration* in the *OFSAAI Installation guide* for steps to deploy in different type of Web application servers.
4. Deploy OFSAAI Web Services if you have not deployed it as part of the OFSAAI installation. Refer to *Deploy OFSAAI Web Services* in the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide* for more information.
5. Stop OFSAAI and the Web Application Server.
6. Remove the Web application server cache.
7. Start the OFSAAI server. For more information, refer to the *Start Infrastructure* section in the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide*.
8. Start the Web Application Server.

Create Users, Load Reference Data, and Other Related Activities

Perform the steps given in the *Oracle Financial Services Regulatory Reporting Administration Guide* for the respective reports.

Integrating with OFSFCCM/Oracle Mantas 5.x

Follow the steps given in the *Oracle Financial Services Regulatory Reporting Administration Guide* for the respective reports.

Database Layer Configuration

1. Follow these steps to configure database:

Note: The following steps are not required if you already have the OFSFCCM application.

- a. Execute the following SQL after updating <RR Admin User Group> with the User Group name created for the RR admin user.

```
UPDATE CONFIGURATION SET PARAMVALUE= '<RR Admin User Group>' WHERE  
PARAMNAME= 'UCM_GROUP_NAME' ;  
COMMIT;
```

- b. Create a directory 'TempDocument' in parallel to where UPLOAD_AREA_CM directory is created while installing OFSAAI. Refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide* for more details.

2. Add the meta data in database by following these steps:

Note: The following steps can be followed if OFSBDF is installed. If OFSBDF is not installed or RR Application is installed as a standalone then run these sql's manually in RR Atomic schema.

- a. Copy following files from ProductSuppliedMetadata folder under Installer Kit to <OFSBDF_HOME>/database/db_tools/bin

For Bahamas STR:

AtomicBahamasSTR.sql and AtomicBahamasSTR.cfg

For Pakistan STR:

AtomicPakistanSTR.sql and AtomicPakistanSTR.cfg

For New Zealand STR:

AtomicNewZealandSTR.sql and AtomicNewZealandSTR.cfg

- b. Add rrs to variable dbscript.execution.users available in <OFSBDF_HOME>/database/db_tools/mantas_cfg/install.cfg

For example:

```
dbscript.execution.users=(system|business|mantas|market|miner|ingest|report|kdd_alt  
io|kdd|algorithms|case|rrs)
```

- c. Add the following variables in

```
<OFSBDF_HOME>/database/db_tools/mantas_cfg/db_variables.cfg
```

```
rrs=<OFSRR Atomic Schema User Name>, Refer place holder ##RRS_ATOMIC_USER## in  
GRC_InstallConfig.xml
```

```
RRSINFODOM=<OFSRR Information Domain Name>, Refer place holder ##INFODOM_1##in  
GRC_InstallConfig.xml
```

```
RRSEGMENT=<OFSRR Segment Name>, Refer place holder ##SEGMENT_1## in GRC_InstallConfig.xml
```

d. Execute the following command

```
<OFSBDF_HOME>/database/db_tools/bin/run_dbbuilder_utility.sh  
<the appropriate *.cfg file from step a>
```

Enter the password of OFSRR atomic schema user password when it prompts.

e. Check the <OFSBDF_HOME>/database/db_tools/logs/db_builder.log for any error in execution.

Accessing OFSRR

Access the Stand alone OFSRR application by logging as OFSRR user using the following URL:

```
https:// <Web application server name>:<port>/<context>
```

If you are integrating OFSRR with OFSFCCM, then login with OFSFCCM user using above URL and click on **FCCM** link in Left Hand Side menu.

Use the following references to determine the correct URL:

- **Web application Server:** Refer to the `WEBSERVER` variable in `OFSAAI_InstallConfig.xml`
- **Port:** Refer to the `SERVLETPORT` variable in `OFSAAI_InstallConfig.xml`
- **Context:** Refer to the `CONTEXT_PATH` variable in `OFSAAI_InstallConfig.xml`

For more details about `OFSAAI_InstallConfig.xml`, refer to the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide*.

For more details about OFSRR user interface workflows, refer to the *Oracle Financial Services Regulatory Reporting User Guide*.

