

Oracle Financial Services Compliance Regulatory Reporting: Migration Guide

*Release 8.0.1.0.0
September 2015*



Oracle Financial Services
Compliance Regulatory Reporting:
Migration Guide

Release 8.0.1.0.0
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Oracle Financial Services Software, Inc.
1900 Oracle Way
Reston, VA 20190
Phone: (703) 478-9000
Fax: (703) 318-6340
Internet: www.oracle.com/financialservices

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About this Guide

This guide explains the approach and process sequence for migrating from any of the following product installs listed to Oracle Financial Services Compliance Regulatory Reporting 8.0.1.0.0:

- Regulatory Reporting Services (RRS) 1.x
- Regulatory Reporting Services (RRS) 2.x

This chapter focuses on the following sections:

- Who Should Use this Guide
- Scope of this Guide
- Where to Find More Information
- Conventions Used in this Guide

Who Should Use this Guide

This guide is intended for use by the Administrators and Implementation Consultants who are responsible for installing OFS CRR 8.0.1.0.0 and migrating from earlier versions of the OFS RRS products.

The document assumes that you have experience in installing and migrating Enterprise Components and basic knowledge about the following:

- Oracle Financial Services Regulatory Reporting Pack
- Oracle Financial Services Analytical Applications (OFSAA) Architecture
- UNIX Commands
- Database Concepts
- Web Server/Web Application Server

Scope of this Guide

This guide provides approach and instructions, along with some utilities, for migrating data and migrating the custom additions done in the earlier versions of OFS RR Products to OFS CRR 8.0.1.0.0.

Where to Find More Information

This section identifies additional documents related to OFS CRR. You can access Oracle documentation online from the Documentation Library for Oracle Financial Services Compliance Regulatory Reporting in Oracle Technology Network (OTN).

OFS AAI Related Documents

The following documents are available in the [Documentation Library for Oracle Financial Services Advanced Analytical Applications Infrastructure \(OFSAAAI\)](#):

- *Oracle Financial Services Analytical Applications Infrastructure Applications Pack Installation and Configuration Guide*
- *Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide*
- *Oracle Financial Services Analytical Applications Infrastructure Administration Guide*
- *Oracle Financial Services Analytical Applications Infrastructure User Guide*

OFS CRR Related Documents

The following documents are available in the [Documentation Library for Oracle Financial Services Compliance Regulatory Reporting Pack \(OFS CRR\)](#):

- *Oracle Financial Services Compliance Regulatory Reporting Application Pack Installation Guide*
- *Oracle Financial Services Compliance Regulatory Reporting Web Service Guide*
- *Oracle Financial Services Compliance Regulatory Reporting Release Notes*

Following are the country-specific Administration Guides and User Guides released as part of the OFS CRR 8.0.1.0.0 release:

Bahamas

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Bahamas STR*
- *Oracle Financial Services Compliance Regulatory Reporting Bahamas Suspicious Transaction Report User Guide*

Burundi

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Burundi STR*
- *Oracle Financial Services Compliance Regulatory Reporting Burundi Suspicious Transaction Report User Guide*

Egypt

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Egypt STR*
- *Oracle Financial Services Compliance Regulatory Reporting Egypt Suspicious Transaction Report User Guide*

Kenya

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Kenya STR*
- *Oracle Financial Services Compliance Regulatory Reporting Kenya Suspicious Transaction Report User Guide*

Malaysia

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Malaysia STR*
- *Oracle Financial Services Compliance Regulatory Reporting Malaysia Suspicious Transaction Report User Guide*

New Zealand

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide New Zealand STR*
- *Oracle Financial Services Compliance Regulatory Reporting New Zealand Suspicious Transaction Report User Guide*

Nigeria

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Nigeria STR*
- *Oracle Financial Services Compliance Regulatory Reporting Nigeria Suspicious Transaction Report User Guide*

Pakistan

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Pakistan STR*
- *Oracle Financial Services Compliance Regulatory Reporting Pakistan Suspicious Transaction Report User Guide*

Philippines

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Philippines STR*
- *Oracle Financial Services Compliance Regulatory Reporting Philippines Suspicious Transaction Report User Guide*

Rwanda

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Rwanda STR*
- *Oracle Financial Services Compliance Regulatory Reporting Rwanda Suspicious Transaction Report User Guide*

Singapore

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Singapore STR*
- *Oracle Financial Services Compliance Regulatory Reporting Singapore Suspicious Transaction Report User Guide*

Uganda

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide Uganda STR*
- *Oracle Financial Services Compliance Regulatory Reporting Uganda Suspicious Transaction Report User Guide*

United States

- *Oracle Financial Services Compliance Regulatory Reporting Administration Guide United States SAR*
- *Oracle Financial Services Compliance Regulatory Reporting United States Suspicious Activity Report User Guide*

The following document is available in *My Oracle Support (MOS)*.

Note: You should have Single Sign-On (SSO) credentials to access [MOS](#).

- *Oracle Financial Services Data Model Reference Guide*

To find more information about Oracle Financial Services and to view the complete product line, visit our Web site www.oracle.com/financialservices.

Conventions Used in this Guide

Table 1 provides 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

Acronyms Used in this Guide

Table 2 lists the Acronyms used in this guide.

Table 2. Acronyms Used in this Guide

Acronyms	Description
OFS CRR	Oracle Financial Services Compliance Regulatory Reporting
SMS	Security Management System
SSO	Single sign-on
MOS	My Oracle Support
OTN	Oracle Technical Network
DIH	Data integration Hub

This chapter explains overview of migration from RR 1.x / RR 2.x to OFS CRR 8.0.1.0.0.

- Overview
- Product Matrix
- Deployment Options

Overview

Customers who are using Oracle Financial Services Regulatory Reporting and intend to move to OFS CRR 8.0.1.0.0 version need to install OFS CRR 8.0.1.0.0 and migrate data and custom changes from existing source installation(s).

This document provides the approach, pre-requisites, and process sequence of migrating from the existing install to the OFS CRR 8.0.1.0.0 install.

Product Matrix

The following table details which products are associated with a specific release.

Table 3. Product Matrix

Product Version	Products
RR 1.0	<ul style="list-style-type: none">● US SAR● Singapore STR
RR 1.1.2	<ul style="list-style-type: none">● US SAR● Singapore STR● Malaysian STR● Nigeria STR
RR 2.0	<ul style="list-style-type: none">● US SAR● Singapore STR● Malaysian STR● Nigeria STR
RR 2.1	<ul style="list-style-type: none">● US SAR Revised● Singapore STR● Malaysian STR● Nigeria STR

Table 3. Product Matrix (Continued)

Product Version	Products
RR 2.2	<ul style="list-style-type: none"> ● US SAR Revised ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR
RR 2.3	<ul style="list-style-type: none"> ● US SAR Revised ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR ● New Zealand STR
RR 2.4	<ul style="list-style-type: none"> ● US SAR Revised ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR ● New Zealand STR ● Bahamas STR
RR 2.5	<ul style="list-style-type: none"> ● US SAR Revised ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR ● New Zealand STR ● Bahamas STR ● Egypt STR
RR 2.5.1	<ul style="list-style-type: none"> ● US SAR Revised with PNC Enhancements ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR ● New Zealand STR ● Bahamas STR ● Egypt STR ● Kenya STR

Table 3. Product Matrix (Continued)

Product Version	Products
RR 2.5.2	<ul style="list-style-type: none"> ● US SAR Revised with PNC Enhancements ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR ● New Zealand STR ● Bahamas STR ● Egypt STR ● Kenya STR ● Burundi STR ● Rwanda STR ● Uganda STR
RR 2.5.3	<ul style="list-style-type: none"> ● US SAR Revised with PNC Enhancements ● Singapore STR ● Malaysian STR ● Nigeria STR ● Pakistan STR ● New Zealand STR ● Bahamas STR ● Egypt STR ● Kenya STR ● Burundi STR ● Rwanda STR ● Uganda STR ● Philippines STR

Table 3. Product Matrix (Continued)

Product Version	Products
CRR 8.0.0.0.0	<ul style="list-style-type: none">● US SAR Revised with PNC Enhancements● Singapore STR● Malaysian STR● Nigeria STR● Pakistan STR● New Zealand STR● Bahamas STR● Egypt STR● Kenya STR● Burundi STR● Rwanda STR● Uganda STR
CRR 8.0.1.0.0	<ul style="list-style-type: none">● US SAR Revised with PNC Enhancements● Singapore STR● Malaysian STR● Nigeria STR● Pakistan STR● New Zealand STR● Bahamas STR● Egypt STR● Kenya STR● Burundi STR● Rwanda STR● Uganda STR● Philippines STR

This chapter describes the migration activities to be performed for migrating the Source Install (RR 1.x / 2.x) to the Target Install (CRR 8.0.1.0.0).

Migration Process Sequence

The following table describes the Migration Process Sequence.

Table 4. Migration Process Sequence

S.No	Migration Activity At	Mode	Process Name	Pre Requisite	Process Summary
1	Source and Target	Manual	Preparing for Migration		Keep the Migration Guide and available utilities ready for use in the source system. Keep the OFS CRR 8.0.1.0.0 Installer, Installation Guide and other reference guides ready for use in target system.
2	Source	Manual	Preparing Source Install - Clone AAI Install	1	Clone Source Install. This is the base / source for Migrations. Note: This step needs to perform in case production AAI version is 7.3.x and above.
3	Source	Upgrade Kit	Preparing Source Install - AAI Upgrade	2	In the Cloned Install, upgrade the AAI version to AAI 7.3.5.1 (Enabled by AAI Upgrade Installer - Multi Step Process). This is the base / source for migrating User / User Group / User-User Group Mappings from Source to Target environment.
4	Source	Scripts	Preparing Source Database - DB DDL Upgrade	2	Run consolidated database DDL upgrade script on the PRODSOURCE DB. On successful execution, the PRODSOURCE DB table structures in RRS schema will be same as the CRR 8.0.1.0.0 table structure.
5	Target	Manual	Preparing Target - Install CRR 8.0.1.0.0	1	Install OFS CRR 8.0.1.0.0. This works as the Target System for migrations.

Table 4. Migration Process Sequence

S.No	Migration Activity At	Mode	Process Name	Pre Requisite	Process Summary
6	Target	Manual	<i>Setting Target Install - AAI User Migration</i>	3 and 5	Setup RRS End Users on Target System (OFS CRR 8.0.1.0.0)
7	Target	Product UI / Manual	<i>Setting Target Install - Administration and Configuration</i>	6	Perform the Admin and Configurations on CRR 8.0.1.0.0 System (Target).
8	Source -Target	Custom Scripts	<i>Data Migration - Core</i>	7	Perform Data Migrations from Source DB to Target DB. Consulting team can use any of the following migration methods for data migration: 1. DIH 2. Scripts created by Consulting 3. Export and Import
9	Source and Target	Manual	<i>Data Migration-Docum ent from Source File System</i>	8	Document Migration to CRR 8.0.1.0.0.
10	Target	System Exec	<i>Dry Run</i>	9	End-to-End Verification of the Target Install.

This chapter explains Pre-requisites and various activities to be performed before starting the migration. It covers the following sections:

- Pre-requisite
- Preparing Migration Activities
- Verification Steps

Pre-requisite

Ensure that you have access to MOS to download the Migration Utility and Related Documents.

Preparing Migration Activities

This section explains pre-migration activities and covers the following topics.

- Obtaining Migration Utility
- Copying Files to Source

Note: Ensure that you have the following required Source and Target System credentials / Details.

- IP Address and machine names of Source and Target System
- FTP Access
- Unix User Credentials for Source and Target Systems

Obtaining Migration Utility

Download the OFS CRR 8.0.1.0.0 migration utilities (`OFS_CRR_801_Migration.zip`) from MOS and keep it available on the Source Environment.

Copying Files to Source

To copy and unzip the downloaded migration Utilities, follow these steps:

1. Copy the file `OFS_CRR_801_Migration.zip` on the Source Environment. Ensure the File transfer mode is set to default.
2. Unzip the package using the command `unzip OFS_CRR_801_Migration.zip`.
3. The unzipped directory contains the Utilities assist in OFS CRR 8.0.1.0.0 Migrations.

4. Give adequate access permission to <OFS_CRR_MIGRATION_HOME> (Utility downloaded / unzipped directory Path) and its contents by running the following command.

```
chmod -R 755 <OFS_CRR_MIGRATION_HOME>
```

For example, `chmod -R 755 OFS_CRR_801_Migration`

Verification Steps

Verify whether you have the following folders and files after downloading and copying OFS_CRR_801_Migration.zip.

Table 5. Preparing Migration Verification Steps

Directory	Files/Sub Folder Name	Remarks
<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/bin	<ul style="list-style-type: none"> ● CRR_DBDDLUpgrade.sh ● substitute_token.sh ● env.sh 	This directory contains the script file for running Consolidated DDL Upgrade changes.
<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/datamodel	<ul style="list-style-type: none"> ● RReport_DM_253.xml ● Pre_Post_DM_scripts 	This directory contains the RR 2.5.3.0.0 Data model. Pre and post scripts need to apply before and after uploading RR 2.5.3 Data model.
<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_scripts	<ul style="list-style-type: none"> ● crr_schema 	This directory contains the required configuration files (CFG) and SQL files required for DDL upgrades from RRS 2.5.3 to OFS CRR 8.0.1.0.0.
<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_tools	<ul style="list-style-type: none"> ● /bin ● /logs ● /mantas_cfg ● /lib 	Integrated DB Builder utility for executing Database scripts.

Preparing Source Install - Clone AAI Install

The AAI production environment should be cloned to enable RR 2.5.3 Data Model Upload using AAI -Import Data Model feature. The cloned environment is the source for the migrations.

This chapter explains how to clone AAI Production Environment and covers following sections:

- Pre-requisites
- Cloning AAI Production Environment
- Verification Steps
- FAQs

Pre-requisites

1. Ensure the AAI 7.3.x cloning artifacts are downloaded and ready.
2. Ensure the Server (LINUX/AIX/SOLARIS) user in cloning environment is created in K-Shell with “chmod 755” permissions.
3. Ensure the ports are available in the cloning environment before updating the port numbers.
4. Ensure the pre-requisite software such as Java, Oracle Database, and Web server (Tomcat /WebSphere / Weblogic) are installed in the cloning environment in similar way to production environment.
5. Ensure the Config schema and same number of atomic schema have been created with the same grants as the Production environment.

Cloning AAI Production Environment

Clone the OFSAAI 7.3.x environment.

For cloning AAI 7.3.x environments, refer to the [Environment Cloning Guide](#).

Verification Steps

Use the following checklist to verify your progress.

Table 6. Preparing Source Install - Clone AAI Install Verification Steps

S. No	Task	Completed Y/N	Remarks
1	Ensure AAI Web Archive file (ear) deployed Successfully.		
2	Ensure all AAI and Web Application Servers are started successfully on the new cloned environment.		
3	Ensure you were able to login to AAI application using SYSADMN user.		
4	Ensure cloned AAI environment has AAI Configuration Schema and RR Atomic Schema similar to as production environment.		

FAQs

1. *Unable to start AAI -Application server, receiving able to bind to Java Port.*

Check and ensure the mentioned /updated ports are available in the cloning environment.

Preparing Source Install - AAI Upgrade

This chapter describes how to upgrade the Source AAI Install to 7.3.5.1.x for enabling AAI User migrations from the Source to Target System (OFSCRR 8.0.1.0.0). It includes following sections:

- Pre-requisites
- Pre-requisitesUpgrading Cloned AAI Production Environment
- Verification Steps

Pre-requisites

1. Ensure AAI's production clone environment is available.
2. Ensure that the required patch sets based on the AAI cloned version are downloaded from MOS to upgrade it to 7.3.5.1.
3. Ensure the following patch sets related AAI Object Migrations-SMS related USER / USER GROUPS /FUNCTIONS/ ROLES/PROFILES are downloaded from MOS.
 - a. Download the OFSAAI Migration Utility (patch 20567446)
 - b. Download the Security Management System (Administration) Object Migration patch (patch 20911491)
4. Ensure AAI application servers are down before applying the patch sets.
5. Ensure the patches are copied and provide required permissions on cloned AAI environment.

Upgrading Cloned AAI Production Environment

To upgrade a cloned AAI production environment, follow these steps:

1. Apply the above patch sets on the cloned AAI environment.
2. Verify the logs and ensure no errors were reported. In case of any errors, contact Oracle Support.

Verification Steps

Use the following checklist to verify your progress.

Table 7. Preparing Source Install-AAI Upgrade Verification Steps

S. No	Task	Completed Y/N	Remarks
1	Ensure the patch sets are successfully applied on the cloned environment.		
2	Ensure the environment upgraded to AAI 7.3.5.1 version. Note: Login to AAI's Config Schema and query for <code>INFODOM_PATCHES</code> table to know the environment version.		
3	Ensure Web Archive file regenerated and re deployed on Web Application Server.		
4	Ensure all AAI servers started successfully and able to login to AAI application Using SYSADMIN user.		

Preparing Source Database - DB DDL Upgrade

This chapter provides the information to upgrade Source database data structures to OFS CRR 8.0.1.0.0 data structures in the respective RR atomic schema. It covers the following sections:

- Pre-requisites
- Managing DDL Upgrade
- Verification Steps
- FAQs

Pre-requisites

1. Ensure the activities mentioned in *Chapter 3, Preparing for Migration* are completed successfully.
2. Ensure the activities mentioned in *Chapter 4, Preparing Source Install - Clone AAI Install* completed successfully.
3. Ensure the activities mentioned in *Chapter 5, Preparing Source Install - AAI Upgrade* completed successfully.
4. Ensure the RR Admin user mapped to Infodom and Segment and Import Business Model function assigned to the RR Administrator User Group.
5. Ensure you are able to login OFSAAI UI with RR Admin user and access Import Data Model UI.
6. Ensure RR 2.5.3 Data Model Copied from
/OFS_CRR_MIGRATION_HOME/ofs_crr_ddl_migration/datamodel to
<ftpshare>/<RRINFODOM>/erwin/erwinXML folder
7. Ensure login to AAI config Schema and update DSNMASTER . MDLVERSION with value '1' against the RR INFODOM and commit the changes.

```
'update DSNMASTER set MDLVERSION='1' where DSNID=<RRINFODOM_NAME>'; commit;
```

Note: Replace <RRINFODOM_NAME> with RRINFODOM Name.
8. Ensure Production Copy Regulatory Reporting (RR) database Schema details and table space details are available.
9. Ensure .profile set for the environment variable ORACLE_HOME, JAVA_HOME, TNS_ADMIN, ORACLE_HOME/bin.
10. Ensure in the cloned AAI environment the <ftpshare>/erwin/fipxml folder contains the XML file <RRINFODOM>_DATABASE.XML from the production environment.

Managing DDL Upgrade

This section explains how to upgrade source system data structures to CRR 8.0.1.0.0 data structures in the respective RR Atomic Schema. It covers following topics:

- Preparing for DDL Upgrades
- Executing of DDL Upgrade Utility

Preparing for DDL Upgrades

To prepare for DDL upgrades, follow these steps.

1. Set up `install.cfg` file –open the file `install.cfg` from the location.

`<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_tools/mantas_cfg/install.cfg` for updating the placeholders described in the following table.

Table 8. Placeholder Details

S.No	Place Holder Name	Value to be Replaced with
1	@database_url_String@	Update the variable pointing to production copy database instance name. For example, jdbc:oracle:thin:@ofss222582.in.oracle.com:1521:orcl

Following are the additional placeholders:

Note: You should not edit these variables.

- @OFS_CRR_MIGRATION_HOME@
- db_tools.tokenfile
- Oracle.DuplicateRow
- Oracle.ObjectExists
- Oracle.ObjectDoesNotExist
- dbscript.execution.users
- log.message.library
- log.categories.file.path
- log.default.location

2. Set up the `db_variables.cfg` file - Open the file `db_variables.cfg` from the location `<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_tools/mantas_cfg/db_variables.cfg` for updating the place holders described in the following table.

Table 9. Placeholder Details

S.No	Place Holder Name	Value to be Replaced with
1	@RR_schema_user@	Regulatory Reporting Atomic Schema User (RR 1.x/ RR 2.x). For example, RRUSER
2	@RR_DATA_TABLESPACE@	Regulatory Reporting User's data table space name. For example, RR_data
3	@RR_INDEX_TABLESPACE@	Regulatory Reporting User's Index table space name. For example, RR_index
4	/CHANGE_ME/	Absolute Path of the table space DBF files For example, /home/migrationdb/oradata/

3. Login to OFS RR atomic Schema (Source) and run the script file `Fct_Reg_Rep_Backup.sql` available at the migration utility folder
`<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/datamodel/Pre_Post_DM_scripts`
4. Login to OFSAAI UI with SYSADMN user and create Infodom and Segment for the cloned RR atomic Schema User using OFSAAI UI-System Configuration Screen.
5. Login with RR ADMIN user (Created as part of Pre-Requisite Section) and access Import Data Model UI.
6. Upload RR 2.5.3 Data Model available at the folder
`<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/datamodel` (Copied as part of pre-requisite section).
7. Post Successful upload of RR 2.5.3 Data Model login to OFS RR atomic Schema (Source) and run the script file `Fct_Reg_Rep_Restore.sql` available at the migration utility folder
`<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/datamodel/Pre_Post_DM_scripts`
 For more details, refer to the [OFSAAI Administration Guide](#).

Executing of DDL Upgrade Utility

To execute the DDL upgrade utility, follow these steps.

1. Go to the `<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/bin` folder.
2. Edit `env.sh` file, replace `<OFS_CRR_MIGRATION_HOME>` with the actual path where you unzipped this utility (For example, `/home/user/OFS_CRR_801_Migration`).
3. Run `substitute_token.sh` located in
`<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/bin` directory. This script replaces the variable `@OFS_CRR_MIGRATION_HOME@` with the actual path in the concerned `*.cfg` files under `<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade` directory.
4. Run the following command `./CRR_DBDDLUpgrade.sh` to bring the database table structure to 8.0.1.0.0
 - c. Utility prompts for the Source/base version as follows:

```
/home/test73app/IMPORT_TARGETDB>scrr_db_ddl_upgrade/bin <
/home/test73app/ofs_crr_migration/ofscrr_db_ddl_upgrade/bin>ls
CRR_DBDLUpgrade.sh env.sh substitute_token.sh
/home/test73app/ofs_crr_migration/ofscrr_db_ddl_upgrade/bin>pgrade.sh <
=====
SCRIPT EXECUTION
=====

This will upgrade CRR from 2.5.3 to 8.0.1
Before proceeding please make sure that you are on CRR 2.5.3
Are you sure you want to continue (Y/N):
Y

You have entered option : Y

-----
Applying deltas to upgrade CRR from 2.5.3 to 8.0.1
-----

2015-09-15 14:14:10,214 [main] INFO DB_BUILDER - Message 281002: Starting parsing of script list file : /home/test73app/ofs_crr_migration/ofscrr_db_ddl_upgrade/db_scripts/crr_schema/delta/oracle/crr8.0.1_delta.cfg
Enter database username for 'rr' user : testrrs
Enter password for testrrs: █
```

Figure 1. Utility

This upgrades CRR from 2.5.3 to 8.0.1 Before proceeding, make sure that you are on CRR 2.5.3

5. Select (Y/N) to continue.
6. Make sure that the CRR version is 2.5.3 and enter Y. The utility starts executing and prompt you for required RR user and password.
7. Enter the information as prompted.

Note:

- d. Check the logs `db_builder.log`, `db_builder_sql.log` for script execution status at the following location.
`<OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_tools/logs>`
- e. If there are any unhandled errors present in the above log files, need to correct the errors manually and re-run the utility.

Verification Steps

Use the following checklist to verify your progress.

Table 10. Preparing Source Database - DB DDL Upgrade Verification Steps

S. No	Task	Completed Y/N	Remarks
1	<p>Ensure the Database objects are upgraded to 8.0.1.0.0 with no unhandled errors.</p> <p>Note: Refer to <OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_tools/logs for the status of script executions.</p>		

FAQs

- During execution of the script CRR_DBDDLUpgrade.sh got message on console as "File Not found".*

Do a check and ensure that 755 permissions given on the folder <OFS_CRR_MIGRATION_HOME>.
- During execution of the script CRR_DBDDLUpgrade.sh "Unable to connect to the Schema".*

Do a check and ensure that the files <OFS_CRR_MIGRATION_HOME>/ofscrr_db_ddl_upgrade/db_tools/install.cfg, db_variables.cfg are updated with the Proper Schema Name/credentials which exist on the Production Database Copy.

Preparing Target - Install CRR

8.0.1.0.0

This chapter provides details about setting the target system for migration and includes following sections:

- Pre-requisites
- Installing OFS CRR 8.0.1.0.0 in the Target System
- Verification Steps

Pre-requisites

1. Ensure the Hardware and Software requirements are set as per OFS CRR 8.0.1.0.0 install pre-requisites.
2. Ensure OFS CRR 8.0.1.0.0 installer and related documents are downloaded and available on the target system environment.

Installing OFS CRR 8.0.1.0.0 in the Target System

To install OFS CRR 8.0.1.0.0 in the Target System, refer to the [Oracle Financial Services Compliance Regulatory Reporting Applications Pack Installation Guide](#) Release 8.0.1.0.0.

Verification Steps

Table 11. Preparing Target Verification Steps

S.No	Task	Completed Y/N	Remarks
1	Ensure OFSCRR 8.0.1 installation has been done successfully by verifying the logs		
2	Ensure to that required post install activities has been completed.		
3	Ensure AAI application and Web Application Servers are up and running and are able to login to AAI using SYSADMN.		

Setting Target Install - AAI User Migration

This chapter describes the procedure for migrating users to the OFS CRR 8.0.1.0.0 System using AAI Object migration capability. It helps you migrate Users, Custom User Groups, User - User Group Mapping, User Group - Domain Mapping. It includes the following sections:

- Pre-requisites
- Managing User Migration
- Verification Steps

Pre-requisites

1. Ensure the following activities are performed successfully.
 - *Chapter 4, Preparing Source Install - Clone AAI Install*
 - *Chapter 5, Preparing Source Install - AAI Upgrade*
 - *Chapter 7, Preparing Target - Install CRR 8.0.1.0.0*
2. Ensure you have the details of the SMS (User/User Groups/Functions/Roles/Profiles) needs to be migrated from the Source environment to Target environment (OFS CRR 8.0.1.0.0).

Managing User Migration

This section covers following topics:

- Preparing for User Migration
- Executing User Migrations
- Post User Migration Activities

Preparing for User Migration

AAI Object migration capability enables migrating of Users, Custom User Groups, User - user Group Mapping, User Group -Domain Mapping.

Read the following instructions related to the migration of these objects before starting migration:

- Users
- Custom User Groups
 - Do not migrate all user groups from source as the Target install already has the pre-packaged user groups.
 - The Pre-Packaged User Groups may have been enhanced as a part of 8.0.0.0.0 release

- Migrate only the custom user groups created if necessary
- **User - User Group Mapping**
 - There may have been changes to the pre-packaged user groups. Thus, assess the need for auto migration from the source.
 - As part of User Migrations, the utility migrates User-User Group mapping as well providing the User Groups that are migrated to target prior to User Migrations.
 - It's recommended to do this in the Target System manually. For more information, refer to the following documents:
 - ◆ [Oracle Financial Services Analytical Applications Infrastructure v8.0.0.0.0 User Guide](#)
 - ◆ [Oracle Financial Services Compliance Regulatory Reporting Administration Guide](#)
- **User Group - Domain Mapping** (Only if the domain names are same in Source and Target)
 - If the Source and Target domain names are different, the mapping needs to be re-done in the target install manually

For more information, refer to the following documents:

 - ◆ [Oracle Financial Services Analytical Applications Infrastructure v8.0.0.0.0 User Guide](#)
 - ◆ [Oracle Financial Services Compliance Regulatory Reporting Administration Guide](#)

Executing User Migrations

This section covers following topics:

- Exporting Procedure on Source
- Importing Procedure on Target

The Security Management System (Administration) objects such as Users, Usergroups, Roles, Functions, and Profiles are migrated using this Migration Utility.

Following are the Administration objects and the mappings that are migrated:

- Users along with the User-Usergroup Mapping, User-Profile Mapping, and User-Attribute Mapping
- User groups along with the User group-Role Mapping and User group-Folder-Role Mapping
- Roles along with the Role-Function Mapping
- Functions
- Profiles along with the Profile-Holiday Mapping

For more information, refer to the [Oracle Financial Services Object Migration Utility v7.3.50.0.0 to v8.0.0.0.0 User Guide](#) for migrating Security Management System (Administration) objects mentioned in *Table 12*.

Table 12. Security Management System (Administration) Objects

SMS Object Name	Object Type ID	Dependent Objects	Remarks
USERS	2000	User group and Profile	Before Migrating Users the dependent Objects mentioned are migrated to Target Environment
USERGROUP	2001	Roles	Before Migrating Users the dependent Objects mentioned are migrated to Target Environment
ROLES	2002	Function	Before Migrating Users the dependent Objects mentioned are migrated to Target Environment
FUNCTION	2003		Before Migrating Users the dependent Objects mentioned are migrated to Target Environment
PROFILE	2004		Before Migrating Users the dependent Objects mentioned are migrated to Target Environment

Exporting Procedure on Source

To migrate the OFSAAI Metadata Objects from Source system to the Target system, perform the following steps:

1. Login to the UNIX shell on the Source OFSAAI instance and navigate to `FIC_HOME/utility/Migration/bin` folder on the command line terminal.
2. Execute the following command to provide execute permissions to all the folders/files present under the `FIC_HOME/utility/Migration/bin` location.

```
chmod -R 775 *
```
3. Execute the following command with all the following parameters:

```
./migrationAllobjects.sh 87644 TESTUSER en_US OFSINFODOM OFSfolder EXPORT DQA-RCHIVE Y "" "N" Y 2004,2003,2002,2001,2000
```

For more information, refer [Oracle Financial Services Object Migration Utility v7.3.50.0.0 to v8.0.0.0.0 User Guide](#).

Importing Procedure on Target

The following activities have to be performed on the Target system.

1. Copy the exported `.DMP` file that needs to be imported to `$FIC_HOME/utility/Migration/metadata/restore` folder.
If the folder structure does not exist, create the folders manually and grant 750 permissions to the user on the folders.
2. Execute the following command to provide execute permissions to all the folders/files present under the `FIC_HOME/utility/Migration/bin` location.

```
chmod -R 775 *
```

3. Navigate to `$FIC_HOME/utility/Migration/bin` path and execute `migrateAllObjects.sh` by passing the parameter values, as follows:

```
./migrationAllobjects.sh 8860 TESTUSER en_US OFSINFODOM OFSfolder IMPORT DQAR-  
CHIVE Y Y N Y 2004, 2003,2002,2001,2000
```

For more information, refer to the [Oracle Financial Services Object Migration Utility v7.3.50.0.0 to v8.0.0.0.0 User Guide](#).

Post User Migration Activities

After all users are migrated to OFSCRR 8.0.1.0.0 install, follow these steps.

1. User – User Group Mapping
2. User – Domain Mapping
3. User Authorization

The migrated objects should be authorized from the OFSAAI UI. For more information, refer to the [Oracle Financial Services Analytical Applications Infrastructure v8.0.0.0.0 User Guide](#).

Verification Steps

Use the following checklist to verify your progress.

Table 13. Setting up Target Install - Verification Steps

S.No	Task	Completed Y/N	Remarks
1	Ensure the migrated users are authorized by logging in through AAI SMS administration UI.		
2	Ensure post authorizations in SMS administration UI are able to see the SMS objects migrated from Source to Target.		
3	Ensure you are able to login and navigate the users created on the Target System to the appropriate authorized Roles.		

Setting Target Install - Administration and Configuration

This chapter provides details on how to configure and administrate the applications migrated to the Target system installed (OFSCRR 8.0.1.0.0) and covers the following sections:

- Prerequisites
- Configuring and Administrating Applications
- Verification Steps

Prerequisites

Ensure you are able to login to OFSCRR 8.0.1.0.0 UI with the SYSADMN and also the respective application ADMIN Users created or migrated.

Configuring and Administrating Applications

This section provides information needed to configure and administrate the applications.

For more information, refer to the [Oracle Financial Services Compliance and Regulatory Reporting Administration Guides](#).

You can also refer to the *Known Issues* section in the *Oracle Financial Services Compliance Regulatory Reporting 8.0.1.0.0 Release Notes* for any known 8.0.1.0.0 issues that may require manual workarounds.

Verification Steps

Use the following checklist to verify your progress.

Table 14. Verification Checklist

S. No	Task	Completed Y/N	Remarks
1	Ensure the administration activities are performed for the RR application migrated from Source system (RR 1.x / RR 2.x) to OFSCRR 8.0.1.0.0 (Target System) by referring to the Oracle Financial Services Compliance Regulatory Reporting 8.0.1.0.0 Administration Guide .		
2	Ensure the configuration activities are performed for the applications migrated.		

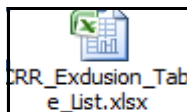
This chapter provides the step-by-step instructions to migrate code data from Source to Target and covers the following sections:

- Pre-requisite
- Executing Data Migration - Core
- Verification Steps

Pre-requisite

1. Ensure the activities mentioned in the [Chapter 6, Preparing Source Database - DB DDL Upgrade](#) are completed successfully.
2. Ensure the activities mentioned in the section [Chapter 7, Preparing Target - Install CRR 8.0.1.0.0](#) are completed successfully.
3. Ensure Setting up of User, User groups, and User Group Role mappings are completed successfully. Refer [Chapter 8, Setting Target Install - AAI User Migration](#) for RR 1.x/RR 2.x.
4. Ensure Admin and Configuration Activities are completed successfully on the Target system. Refer the section [Chapter 9, Setting Target Install - Administration and Configuration](#).
5. Ensure the Data Migration approach is decided for migrating data from Source to Target.
 - a. DIH
 - b. Scripts created by Consulting
 - c. Export and Import
6. Ensure the Exclude table list are excluded from Data Migrations as pre-configured Metadata will be available in the Target install. Copying them can create unique constraint failures. Refer to the following the Excel sheet [Exclude_Tables_List.xlsx](#).

Note: To access Excel sheet, download this PDF copy to your local system. Click the following Excel icon.



7. Ensure to follow guide lines mentioned in the table before proceeding with data migration activity.

Table 15. Guidelines

S.No	Task	Remarks
1	<p>Data Mapping Activity (using DIH) should include the following:</p> <ul style="list-style-type: none"> ● Direct Mappings in DIH- Using Source and Target Model - Automatic ● Indirect Mappings in DIH - Manual. ● Exclusions - Manual (At the time of scheduling the migration tasks. The exclude tables should not be scheduled for migration) 	
2	<p>Rules for Dimension (DIM) table data:</p> <ul style="list-style-type: none"> ● In case of conflict, the factory shipped data gets precedence. <ul style="list-style-type: none"> ■ Custom added information needs to be sequenced. ■ It is preferable to follow separate range in order to avoid future conflicts. ● Should follow the same pattern, for example, alphabetic, numeric, and alphanumeric. ● Should be ordered lexicographically. ● Considering the above rule, correct the data at source if required and propagate to the respective tables. 	
3	<p>Rules for the data in <code>MESSAGES_EN_US</code>:</p> <ul style="list-style-type: none"> ● Additional custom messages has be manually migrated without any conflict in terms of message content. ● In case of conflict, the factory shipped data gets the precedence. ● Custom added information needs to be sequenced. ● It is preferable to follow separate range in order to avoid future conflicts. ● The new custom message data should have a new and unique combination of <code>MSG_IDENTIFIER</code> and <code>MSG_PACKAGE</code>. ● If modification of the message text for the existing <code>MSG_IDENTIFIER</code> has to be migrated based on sole. 	
4	<p>Rules for USER data:</p> <ul style="list-style-type: none"> ● There data for user, user role, functions, group, and mapping should be a part of the object migration. 	<p>For more information, refer to the Chapter 8, Setting Target Install - AAI User Migration</p>

Executing Data Migration - Core

These steps are based on the migration approach decided.

Note: Before importing, ensure you disable all FK constraint in Target RR 8.0.1.0.0 schema where `constraint_type = 'R'`. After import re-enable all the constraint. Before disabling constraint, ensure that no FK constraints are in DISABLED state both in Source and Target schemas. Constraints will remain DISABLED even after import.

Resetting Sequence ID Ranges and Current Values of CRR Atomic Schema(Target)

Ensure the Sequence ID ranges and values are reset to Maximum Value+1 for all tables in the target (OFS CRR 8.0.1.0.0) atomic Schema.

Verification Steps

Use the following checklist to verify your progress.

Table 16. Data Migration - Core Verification Steps

S. No	Task	Completed Y/N	Remarks
1	Ensure the execution logs for Data Migration Scripts / Export- Import are having no errors.		
2	Ensure the required data sanity check (count) done on Target System.		
3	Ensure all database objects are in valid compilation state.		

Data Migration-Document from Source File System

The chapter describes the copying of documents present in the Source File System to Target Install file systems and includes the following sections:

- Pre-requisites
- Transferring Documents from Source File System
- Verification Steps

Pre-requisites

1. Ensure you have access to Production Install <ftpshare>/<DOCUMENT_UPLOAD_SAVE>

Note: Get the DOCUMENT_UPLOAD_SAVE value by executing below query in CONFIG Schema.

```
"select PARAMVALUE from CONFIGURATION where PARAMNAME='DOCUMENT_UPLOAD_SAVE'
```

2. Prior to transferring documents, verify that enough space is available in the file system of the Application layer of the Target Install.

To determine the required disk space, execute the following command Query in the OFSCRR 8.0.1.0.0 Unified schema.

a. `Select ceil(sum(FILE_SIZE)/(1024*1024))||' MB'from KDD_DOC;`

b. Check for available space in the Target Install - <ftpshare>/<DOCUMENT_UPLOAD_SAVE>

Note: Get the <DOCUMENT_UPLOAD_SAVE> path by executing the following query in Config Schema of AAI.

```
"select PARAMVALUE from CONFIGURATION where  
PARAMNAME='DOCUMENT_UPLOAD_SAVE' "
```

c. Ensure the available space in the Target Install is more than the size required from the step a.

3. Login to the Configuration schema and make sure that

DOCUMENT_UPLOAD_SAVE, DOCUMENT_UPLOAD_TEMP_WS and DOCUMENT_UPLOAD_TEMP parameters present in configuration table have valid values. These values are set at the time of installation and required for the user to be able to view / attach documents through Product User Interface.

- DOCUMENT_UPLOAD_SAVE
- DOCUMENT_UPLOAD_TEMP_WS
- DOCUMENT_UPLOAD_TEMP

Transferring Documents from Source File System

To transfer documents from the Source file system, follow these steps:

1. Go to Production System's <ftpshare>/<INFODOM>/<DOC_DOWNLOAD_DIR>.

Note:

- a. <INFODOM> refers to respective infodom(s) of RRS 1.x/RRS 2.x installs.
 - b. <DOC_DOWNLOAD_DIR> refer to the DOCUMENT_UPLOAD_SAVE path from CONFIGURATION Table of Infrastructure Schema of the Source install.
 - c. Run the following query to know the <DOC_DOWNLOAD_DIR> of Source System.

```
"select PARAMVALUE from CONFIGURATION where  
PARAMNAME='DOCUMENT_UPLOAD_SAVE'" in CONFIG Schema of AAI in the Source Install.
```
2. Copy the content of <DOC_DOWNLOAD_DIR> to Target system's(OFSCRR 8.0.1.0.0) <ftpshare>/<CRRINFODOM>/<DOC_DOWNLOAD_TGT_DIR>
 - a. <CRRINFODOM> refers to Target system's INFODOM.
 - b. <DOC_DOWNLOAD_TGT_DIR> refer to DOCUMENT_UPLOAD_SAVE path from CONFIGURATION Table of Infrastructure Schema of the Target install.
 - c. Run the query to know the <DOC_DOWNLOAD_DIR> of Source System.

```
"select PARAMVALUE from CONFIGURATION where PARAMNAME='DOCUMENT_UPLOAD_SAVE'  
" in CONFIG Schema of AAI in the Target Install.
```
 3. Reset the sequence "TASKS". This step is required to ensure that there should not be any metadata conflict the tables document_master, document_user_map, document_user_group_map for any new document uploads happen from OFSCRR 8.0.1.0.0 UI.
 - a. Login to AAI's Config Schema.
 - b. Execute the following query.

```
"select max(n_document_mapusergroup_id) from document_user_group_map "
```
 - c. Execute the following query.

```
ALTER SEQUENCE tasks INCREMENT by <value returned from step b>
```

Verification Steps

Use the following checklist to verify your progress.

Table 17. Document from Source File System- Verification Steps

S. No	Task	Completed Y/N	Remarks
1	Ensure for the installed (respective infodoms) products the documents are copied from Source-ftpshare area to Target-ftpshare area.		
2	<p>Ensure the following set of queries results in same row count.</p> <p>CONFIG Schema(Target System) select count(*) from document_master WHERE V_DSNID='<INFODOM>'</p> <p>Note: replace <INFODOM> value with actual INFODOM used for the document migrations.</p> <p>Config Schema(Source System) select count(*) from document_master WHERE V_DSNID IN ('<ALL_INFODOMS>')</p> <p>Note: replace the <ALL_INFODOMS> to include the infodom name's for which documents been migrated from Source to Target System.</p>		The Query shall match in both Source and Target Systems.
3	<p>Ensure the following set of queries results in same row count.</p> <p>CONFIG Schema(Target System) select count(*) from document_user_map WHERE V_DSNID='<INFODOM>'</p> <p>Note: replace <INFODOM> value with actual INFODOM used for the document migrations.</p> <p>Config Schema(Source System) select count(*) from document_user_map WHERE V_DSNID IN ('<ALL_INFODOMS>')</p> <p>Note: replace the <ALL_INFODOMS> to include the infodom name's for which documents been migrated from Source to Target System.</p>		The Query shall match in both Source and Target Systems.

Table 17. Document from Source File System- Verification Steps

S. No	Task	Completed Y/N	Remarks
4	<p>Ensure the following set of queries results in same row count.</p> <p>CONFIG Schema(Target System) select count(*) from document_user_group_map WHERE V_DSNID='<INFODOM>'</p> <p>Note: replace <INFODOM> value with actual INFODOM used for the document migrations.</p> <p>Config Schema(Source System) select count(*) from document_user_group_map WHERE V_DSNID IN ('<ALL_INFODOMS>')</p> <p>Note: replace the <ALL_INFODOMS> to include the infodom name's for which documents been migrated from Source to Target System.</p>		<p>The Query shall match in both Source and Target Systems.</p>
5	<p>Ensure you are able to upload new documents through Target system (OFS CRR 8.0.1.0.0) application UI.</p>		

This chapter mentions the steps to verify the Target system OFS CRR 8.0.1.0.0 post the migrations and also explains following sections:

- Pre-requisites
- Executing Dry Run

Pre-requisites

1. Ensure the administration and configuration activities mentioned under [Chapter 9, Setting Target Install - Administration and Configuration](#) are completed successfully
2. Ensure all OFSAAI application and Web application servers are up and running.
3. Ensure you are able to login to application UI.

Executing Dry Run

To understand the detailed steps on how to setup and configure various process and systems involved for the applications migrated from the Source system to OFSCRR 8.0.1.0.0 (Target System). Refer to the following documents:

For more information, refer to the [Oracle Financial Services Compliance Regulatory Reporting Administration Guide](#)

