Oracle Financial Services

Compliance Regulatory Reporting

Installation Guide

Release 8.1.2.5.0

June 2023

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Oracle Financial Services Compliance Regulatory Reporting Installation Guide.

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Document Control

Table 1: Document Control

Version Number	Revision Date	Change Log
1.0	June 2023	The first publication of this guide.

Contents

1   About This Guide

Oracle Financial Services Compliance Regulatory Reporting (OFS CRR) 8.1.2.5.0 Installation Guide provides step-by-step instructions to install the OFS CRR 8.1.2.5.0 Maintenance Level (ML) release.

The OFS CRR 8.1.2.5.0 ML release includes all the bug fixes and minor enhancements since the GA (General Availability) release, 8.1.2.0.0.

1.1   How This Guide is Organized

This guide includes the following chapters:

- *Chapter 2, Pre-Installation*, provides details of the pre-installation requirements and the files packaged in this ML release.
- *Chapter 3, Applying This Maintenance Level Release*, details the steps to install the OFS CRR 8.1.2.5.0 ML patch.
- *Chapter 4, JAVA Upgrade*, explains JAVA configuration details.

1.2   Conventions

Table 1 lists the conventions used in this guide.

Table 1: Conventions Used in this Guide

Conventions	Description
Italics	• Names of books, chapters, and sections as references • Emphasis
Bold	• The 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`	• Directories and subdirectories • File names and extensions • Process names • Code sample, including keywords and variables within the text and as separate paragraphs, and user-defined program elements within the text
Asterisk	Mandatory fields in the User Interface
`<Variable>`	Substitute input value

1.3 Acronyms

Table 2 lists the acronyms used in this guide.

Table 2: Acronyms

Conventions	Description
ML	Maintenance Level
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
EAR / WAR	Enterprise Archive / Web Archive
ECM	Enterprise Case Management
MOS	My Oracle Support

2   Pre-Installation

> **NOTE**   Java 11 cannot be installed on Solaris.

1. Download the OFS_CRR 8.1.2.5.0 archive file from MOS by searching the patch number 35193508 under the Patches & Updates tab.

2. Download and apply the OFS_AAI_8.1.2.3.0 file from MOS by searching the patch number 35307360 under the *Patches & Updates* tab. For more information, see OFS AAI Installation Guide 8.1.2.3.0.

> **NOTE**   This step is applicable only if you are using OFS ECM.

3. Download and apply the OFS ECM 8.1.2.5.0 ML archive file from MOS by searching the patch number 35197649 under the *Patches & Updates* tab. For more information, see OFS ECM Installation Guide 8.1.2.5.0.

4. Provide the following grants to Atomic user by login using SYSDBA user.

   - "GRANT execute ON DBMS_LOCK to `<<ATOMIC USER>>`
   - "Grant execute on dbms_scheduler to `<<ATOMIC USER>>`
   - "Grant create job to `<<ATOMIC USER>>`

2.1   Files Packaged in This ML Release

The list of files packaged in this ML release is as follows:

- Modified Files
- Database Files
- Build related files

2.1.1   Modified Files

The list of product files modified due to this patch is as follows:

- XMLs
  - FrmAckDtlsG.xml
  - FrmAckErrG.xml
  - FrmAckG.xml
  - FrmAck_OPR.xml
  - FrmAck_OPR_Err.xml
  - GridCtrl.xml
  - TextBoxCtrl.xml
  - SearchOptions.xml
  - CRR_EG_AcctAddEx.xml
  - CRR_EG_ActBtn.xml

- CRR_EG_AutoDirAdd.xml

- CRR_EG_AutoDirAddG.xml

- CRR_EG_TAB2.xml

- CRR_EG_TAB2_ENTITY8.xml

- CRR_EG_TAB4.xml

- CRR_EG_TAB4_ENTITY30.xml

- CRR_EG_TAB4_ENTITY38.xml

- CRR_EG_TAB4_ENTITY40.xml

- CRR_EG_TAB5_TRXN.xml

- CRR_EG_TAB6.xml

- CRR_EG_TAB6_TRXN.xml

- FrmCRRAckw.xml

- FrmCRRCompTypeData.xml

- FrmCRRConfig.xml

- FrmCRRConfigHDRG.xml

- FrmCRRConfig_OPR.xml

- FrmCRREntDtls.xml

- FrmCRREntJoin.xml

- FrmCRROutputAttr.xml

- FrmCRROutputData.xml

- FrmCRROutputEntities.xml

- FrmCRRSRCAttr.xml

- FrmCRRSrcData.xml

- FrmCRRSrcTrg.xml

- FrmCRRVadDtls.xml

- FrmCRRVadFormDtls.xml

- RR_EG_ViewRepG.xml

- RR_EG_ViewRepP.xml

- RR_Sec_Lane_Params.xml

- AcknowlegdementConfig.xml

- DIM_AMNT_UNKNOWN_TL.xml

- DIM_BRANCH_ROLE_TL.xml

- DIM_COMMUNICATION_TYPE_TL.xml

- DIM_DOMAIN1_TL.xml

- DIM_DOMAIN2_TL.xml

- DIM_DOMAIN3_TL.xml

- DIM_DOMAIN4_TL.xml
- DIM_DOMAIN5_TL.xml
- DIM_FED_REGULATOR_TL.xml
- DIM_FILING_INST.xml
- DIM_FILING_INST_TL.xml
- DIM_FILING_TYPE_TL.xml
- DIM_FINANCIAL_INST_TYPE_TL.xml
- DIM_FININST_ID_TYPE_TL.xml
- DIM_FININST_ROLE_TL.xml
- DIM_GAMING_INST_TL.xml
- DIM_GENDER_TL.xml
- DIM_INSIDER_RELN_TYPE_TL.xml
- DIM_NAICS_CODE_TL.xml
- DIM_RELN_FININST_TL.xml
- DIM_ROLE_TL.xml
- DIM_SEC_FUT_INST_FININST_TL.xml
- DIM_SEC_FUT_INST_TL.xml
- DIM_STATES_TL.xml
- DIM_SUSPECT_ID_TYPE_TL.xml
- DIM_SUS_ROLE_TL.xml
- DIM_TIN_TYPE_TL.xml
- DIM_TRXN_LOC_INFO_TL.xml
- FCT_BRANCH_INFO_TL.xml
- FCT_FININST_INFO_TL.xml
- FCT_TRANSMITTER_INFO_TL.xml
- TRGMAP_ENTITY.xml
- TRGMAP_JOIN.xml
- TRGMAP_MAPPING.xml
- ValidationConfig.xml
- ValidationFormDtls.xml
- Jars
  - RRS.jar
  - CRRAckProcess.jar
  - CRRConfigUpd.jar
  - CRRDataIngestion.jar
  - CRROutputReport.jar

- CRRSourceGen.jar
- CRRSrcClient.jar
- CRRSrcConfigAPI.jar
- CRRUIActions.jar
- CRRUIBuilder.jar
- JBC.jar

- JS

  - financial_institution_activity_occured.js
  - narrative.js
  - filing_institution.js
  - report_information.js
  - subject_information.js
  - usr-constant.js
  - usr-utility.js
  - usr_subject_alt_name.js
  - usr_subject_email.js
  - usr_subject_form_of_id.js
  - usr_subject_info_address.js
  - usr_subject_info_phone.js
  - usr_subject_relFinInst.js
  - usr_subject_website_account.js
  - usr_suspicious_activity_information.js
  - ussar_Document.js
  - ussar_FileRegRep.js
  - ussar_ReportDetails.js
  - ussar_SearchList.js
  - ussar_ackFileBrowser.js

- JSP

  - CRRFrameWorkBaseFormWM.jsp
  - CRRDemo.jsp
  - CRRTargetIngest.jsp
  - PopupAlert.jsp
  - close.html
  - configUpload.jsp

- HTML

  - CASTR_Context.html

- CASTR_FileRegRep.html
- CASTR_SearchList.html
- aai-crr.html
- ackFileBrowser.html
- audit.html
- castrCreateNewReport.html
- crrFileBrowser.html
- filing_institution.html
- financial_institution_activity_occured.html
- narrative.html
- report_information.html
- subject_information.html
- usr_subject_alt_name.html
- usr_subject_email.html
- usr_subject_form_of_id.html
- usr_subject_info_address.html
- usr_subject_info_phone.html
- usr_subject_relFinInst.html
- usr_subject_website_account.html
- usr_suspicious_activity_information.html
- usr_xsd_validation.html
- ussar_CreateNewReport.html
- ussar_DocAttach.html
- ussar_Document.html
- ussar_FileRegRep.html
- ussar_ReportDetails.html
- ussar_SearchList.html
- ussar_ackFileBrowser.html
- SearchandList.html
- CSS
  - newwave_crr.css
  - searchList.css
  - CRRLandingPage.css
  - SearchForm.css
  - form-elements.css
  - jquery-ui.css

- ■ layout.css
- ■ modal.css
- ■ style.css
- Properties Files
  - ■ CRRRestCALL.properties
- Excel Files
  - ■ DIM_AMNT_UNKNOWN_TL.xlsx
  - ■ DIM_BRANCH_ROLE_TL.xlsx
  - ■ DIM_COMMUNICATION_TYPE_TL.xlsx
  - ■ DIM_DOMAIN1_TL.xlsx
  - ■ DIM_DOMAIN2_TL.xlsx
  - ■ DIM_DOMAIN3_TL.xlsx
  - ■ DIM_DOMAIN4_TL.xlsx
  - ■ DIM_DOMAIN5_TL.xlsx
  - ■ DIM_FED_REGULATOR_TL.xlsx
  - ■ DIM_FILING_INST.xlsx
  - ■ DIM_FILING_INST_TL.xlsx
  - ■ DIM_FILING_TYPE_TL.xlsx
  - ■ DIM_FINANCIAL_INST_TYPE_TL.xlsx
  - ■ DIM_FININST_ID_TYPE_TL.xlsx
  - ■ DIM_FININST_ROLE_TL.xlsx
  - ■ DIM_GAMING_INST_TL.xlsx
  - ■ DIM_GENDER_TL.xlsx
  - ■ DIM_INSIDER_RELN_TYPE_TL.xlsx
  - ■ DIM_NAICS_CODE_TL.xlsx
  - ■ DIM_RELN_FININST_TL.xlsx
  - ■ DIM_ROLE_TL.xlsx
  - ■ DIM_SEC_FUT_INST_TL.xlsx
  - ■ DIM_STATES_TL.xlsx
  - ■ DIM_SUSPECT_ID_TYPE_TL.xlsx
  - ■ DIM_SUS_ROLE_TL.xlsx
  - ■ DIM_TIN_TYPE_TL.xlsx
  - ■ DIM_TRXN_LOC_INFO_TL.xlsx
  - ■ FCT_BRANCH_INFO_TL.xlsx
  - ■ FCT_FININST_INFO_TL.xlsx
  - ■ FCT_TRANSMITTER_INFO_TL.xlsx

- SDTM Batch Files

  - TransferAckToSecurelane.sh

  - TransferEfileToSecurelane.sh

  - TransferMSGToSecurelane.sh

> **NOTE**
> - Take a backup of above mentioned files as a precautionary measure.
> - If any customizations done to these files, they need to be re-applied.

2.1.2 Database Files

The list of updated/added files that impact the database is as follows:

- Config Schema

  - USSAR_FFW_812.sql

  - RR_Sec_Lane_Params.sql

  - RR_EG_ViewRepP.sql

  - RR_EG_ViewRepG.sql

  - PLC_FN_JIT_CRR_SYNCH_ADHOC_BATCH.sql

  - PLC_CRRPURGE.sql

  - MESSAGES_EN_US_OJET_CASTR.sql

  - MESSAGES_EN_US.SQL

  - INSERT_INFODOM_PATCHES.sql

  - EXCEL_MAPPING_MASTER_LP.sql

  - CRR_USSAR_PMF.sql

  - CRR_EG_TAB4_ENTITY40.sql

  - CRR_EG_TAB4_ENTITY30.sql

  - CRR_EG_AutoDirAddG.sql

  - CRR_EG_AutoDirAdd.sql

  - CRR_EG_ActBtn.sql

  - AAI_PROV_JIT_RRS.sql

  - 32787387_MESSAGES_EN_US_8111.sql

  - 28398616_MESSAGES_EN_US.SQL

  - 8122_OJET_FFW.sql

- Application Scripts

  - 28398603_PSDM.sql

  - 4244_APPLN_PARAMETERS.sql

  - 8121_APPLN_PARAMETERS.sql

- APPLN_PARAMETERS.SQL
- APPLN_PARAMETERS_8122.sql
- APPLN_PARAMS_8124.sql
- CASTR_LP_Script.sql
- CRRF_TEMP_DATA.sql
- CRRF_TEMP_DATACOPY.sql
- DIM_CRRF_DOCTYPE.sql
- DIM_CRR_DIMENSION_SETS.sql
- DIM_CRR_DIMENSION_VALS.sql
- DIM_CRR_SRC_APP.sql
- DIM_NAICS_CODE.sql
- DIM_NAICS_CODE_2887.sql
- DIM_SUS_ACTIVITY.sql
- FCC_CRR_UIB_ATTRIBUTE.sql
- FCC_CRR_UIB_ENTITY.sql
- FCC_CRR_UIB_FODEFN.sql
- FCC_CRR_UIB_STDCONFIG.sql
- OFSAACMPRR-11669.sql
- OFSAACMPRR-12883.sql
- SETUP_CRR_ACK_PATTERN.sql
- SRC_TARGET_CONFIG_GOAML_NGECM.sql
- USSAR_LP_Script.sql
- Functions
  - FN_JIT_CRR_SYNCH_ADHOC_BATCH.sql
  - FN_USSAR_REL_FININST.sql
  - fn_purge_crr.sql
- Procedures
  - CRR_PURGE_TABLE_SCRIPT.sql
  - PR_COPYCONFIGURATION.sql
  - P_FCC_OFS_CRR_JIT_SEC_MAP.sql
  - P_JIT_CRR_SYNCH_ADHOC_BATCH.sql
  - p_crr_compare_tables.sql
- Packages
  - PKG_CRR_PURGE.sql
  - PKG_CRR_PURGE_BODY.sql
  - PKG_RRCA_DEL.sql

- PKG_RRCA_DEL_BODY.sql
- PKG_RRCA_SAVE.sql
- PKG_RRCA_SAVE_BODY.sql
- PKG_RRIN_SAVE.sql
- PKG_RRIN_SAVE_BODY.sql
- PKG_RRRUS_SAVE.sql
- PKG_RRRUS_SAVE_BODY.sql
- PKG_RRSTD_SAVE.sql
- PKG_RRSTD_SAVE_BODY.sql
- pkg_rrsardi_del.sql
- pkg_rrsardi_del_body.sql
- pkg_rrsardi_save.sql
- pkg_rrsardi_save_body.sql
- pkg_sardi_addnewrep.sql
- pkg_sardi_addnewrep_body.sql
- Table Scripts
  - CRR_PURGE_TABLE_SCRIPT.sql
  - FCT_ACCOUNT_PE.sql
  - FCT_ADDRESS_PE.sql
  - FCT_ALTERNATE_NAME_PE.sql
  - FCT_COMMENTS_PE.sql
  - FCT_EFILE_PE.sql
  - FCT_EMAIL_PE.sql
  - FCT_IDENTIFICATION_PE.sql
  - FCT_PERSON_PE.sql
  - FCT_PHONE_PE.sql
  - FCT_REGULATORY_REPORT_PE.sql
  - FCT_RELN_FININST_PE.sql
  - FCT_REPORT_ACTIONS_PE.sql
  - FCT_RR_XSD_VLDTN_DTLS_PE.sql
  - FCT_SUSPECT_INFO_PE.sql
  - FCT_SUS_ACTIVITY_PE.sql
  - FCT_TRANSACTION_PE.sql
  - FCT_URL_PE.sql
  - GTT_CRR_TRXN_INFO.sql
  - KDD_GTT_CRR_PURGE.sql

- MAP_ADDITIONAL_ACTVTY_INFO_PE.sql
- MAP_BRANCH_INFO_PE.sql
- MAP_FININST_INFO_PE.sql
- Views
  - VW_GOAML_ACCT_NMBR.sql
  - VW_GOAML_SUBJECT_NMS.sql

NOTE	• Take a backup of Atomic and Config Schema as a precautionary measure.
	• Take a backup of above mentioned files. If any customizations done to these files, they need to be re-applied.

2.1.3   Build related files

The list of build-related files is as follows:

- web.append.xml
- merge_Menu.xsl
- merge_Persistence.xsl
- merge_web.xsl
- merge_wsdd.xsl

NOTE	• Take a backup of above mentioned files as a precautionary measure.
	• If any customizations done to these files, they need to be re-applied.

3   Applying This Maintenance Level Release

To apply this ML release, follow these steps:

1. Load the **.profile** and make sure that `$FIC_HOME` corresponds to the proper environment where the patch application is required.

2. Start the OFSAAI Services.

3. Download and copy the `35193508_GENERIC.zip` file (in Binary mode) to the server where OFSAAI is installed.

4. Navigate to the `<USER_PATCH_DIR>` directory and extract the contents of the patch archive file using the following command:

    `unzip -a <name of the archive file to be unzipped>`

    For example: `unzip -a 35193508_GENERIC.zip`.

NOTE	`<USER_PATCH_DIR>` is the directory containing the *<patch>.zip* file copied in step 3.
	"-a" option is mandatory to unzip the patch. In case, you notice an error message: *"unzip: not found [No such file or directory]"* when the package is not installed, contact your *UNIX Administrator.*

    The list of files available when you unzip the folder is as follows:

    -   PatchConfig.xml
    -   CRR_DataModel.xml
    -   install.sh
    -   Setup.bin
    -   validateXMLInputs.jar
    -   Readme_OFSCRR_8.1.2.5.0.htm

5. Navigate to the `<USER_PATCH_DIR>/35193508/bin` directory and grant 755 permission using the following command:

    `$ chmod 755 *`

6. Update the parameter `##RR_UPLOAD_MODEL##` in the `<USER_PATCH_DIR>/35193508/conf/PatchConfig.xml` file to **1**.

7. Replace the variables `##OFS_RRS_DATA_TBSP##` and `##OFS_RRS_INDEX_TBSP##` in the `PatchConfig.xml`. These attribute refer to the Data and Index Tablespace Values present in `OFS_CRR_SCHEMA_OUTPUT.xml` which was generated at the time of installation

8. Install the patch by executing the install.sh command as follows:

```
$ ./install.sh
```

NOTE	While applying a patch, you might get the following warning in your Putty session, but you can ignore this.
	WARNING: An illegal reflective access operation has occurred
	WARNING: Illegal reflective access by com.sun.xml.bind.v2.runtime.reflect.opt.Injector$1 (file:/../<FICHOME>/ficapp/common/FICServer/lib/jaxb-impl.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int)
	WARNING: Please consider reporting this to the maintainers of com.sun.xml.bind.v2.runtime.reflect.opt.Injector$1
	WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
	WARNING: All illegal access operations will be denied in a future release

9. Check if the ML release is applied successfully by verifying the patch install logs under the `<USER_PATCH_DIR>/35193508/logs` directory. Contact My Oracle Support in case of any errors.

10. For Websphere Server, remove all the jackson* Jars from below folder before creating OFSAAI EAR/WAR file $FIC_HOME/ficweb/webroot/externalib/WEB-INF/lib.

11. For Websphere server, after the EAR/WAR File is deployed, copy the below mentioned jars from <ofsaa_deployed_area_location>/WEB-INF/lib/ directory to the path <ofsaa_deployed_area_location>/externalib/WEB-INF/lib/

    Make sure the classpath is configured to the path where the above jars are copied under websphere console->Shared Libraries > JERSEY2X.

    ▪ jaxb-xjc.jar

    ▪ jaxb-impl.jar

    ▪ jaxb-core.jar

    For more information, see Configure WebSphere Shared Library to Support Jersey 2x and Jackson 2.9x Libraries section in OFSAA Installation Guide.

12. After the patch is installed successfully, re-create the OFSAA EAR/WAR file and re-deploy a new EAR/WAR file on the web application server.

13. Restart the OFSAA App server and the web server.

    For more information on the application configuration, see *Administration Guide* on OHC.

4   JAVA Upgrade

> **NOTE**   From CRR 8.1.2.5.0 onwards, JAVA11 is supported with the below mentioned web servers,
>
> 1. Weblogic 14.1.x.x
> 2. Apache Tomcat 9.0.xx
>
> Existing web servers have to be re-configured/re-installed with JAVA11.

4.1   Configuring Existing JAVA8 environments

To upgrade from JAVA8 to JAVA11, follow these steps:

1. Install the JAVA11 in the server.

2. Use the below command to list the files and note the file names.
   `grep -r -l '/scratch/jdk1.8.0_161'` (Change the JAVA path accordingly).

   > **NOTE**   The above command should be executed in the $FICHOME.

3. Modify the listed files from JAVA8 to JAVA11.

4. Use the below command to change from JAVA8 to JAVA11.
   grep -r -l 'OLDPATH/jdk1.8.0_161' . | sed "s|^|\"|g" | sed "s|$|\"|g" | xargs sed -i "s|OLDPATH/jdk1.8.0_161|NEWPATH/jdk-11.0.11|g" (Change the JAVA paths accordingly).

5. Update the JAVA8 path with JAVA11 in the .profile.

6. Re-create and Re-deploy the OFSAA EAR/WAR file and Restart the OFSAA app server and web server.

4.2   Configuring New JAVA11 environments

To create a new environment with JAVA11, follow these steps:

1. Configure and complete the installation of CRR 8.1.2.5.0 with JAVA11.

   > **NOTE**   Do not bring up the environment until CRR 8.1.2.5.0 is applied and configured.

2. Follow the steps from Pre-Installation for applying CRR 8.1.2.5.0.

OFSAA Support Contact Details

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to OFSAA applications.

Send Us Your Comments

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the Oracle Support.

Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site which has all the revised/recently released documents.

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