

Oracle Financial Services
Compliance Regulatory Reporting
Installation Guide
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ORACLE®
Financial Services

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	March 2023	The first publication of this guide.

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1 About This Guide

Oracle Financial Services Compliance Regulatory Reporting (OFS CRR) 8.1.2.4.0 Installation Guide provides step-by-step instructions to install the OFS CRR 8.1.2.4.0 Maintenance Level (ML) release.

The OFS CRR 8.1.2.4.0 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 8.1.2.4.0 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
<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"> • 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	<ul style="list-style-type: none"> • 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 8.1.2.4.0 archive file from [MOS](#) by searching the patch number 34941227 under the Patches & Updates tab.
2. Download and apply the OFS_AAI_8.1.2.2.0 file from [MOS](#) by searching the patch number 34943394 under the *Patches & Updates* tab. For more information, see [OFS AAI Installation Guide 8.1.2.2.0](#).

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

3. Download and apply the OFS ECM 8.1.2.4.0 ML archive file from [MOS](#) by searching the patch number 34907686 under the *Patches & Updates* tab. For more information, see [OFS ECM Installation Guide 8.1.2.4.0](#).
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
 - CRR_EG_AcctAddEx.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_Sec_Lane_Params.xml
- AcknowledgementConfig.xml
- DIM_AMNT_UNKNOWN_TL.xml
- DIM_BRANCH_ROLE_TL.xml
- DIM_COMMUNICATION_TYPE_TL.xml
- DIM_FED_REGULATOR_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
- TRGMAP_ENTITY.xml
- TRGMAP_JOIN.xml
- TRGMAP_MAPPING.xml
- ValidationConfig.xml
- ValidationFormDtIs.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
 - crrFWSolution.js
 - CASTR_Context.js
 - CASTR_FileRegRep.js
 - CASTR_SearchList.js
 - aai-crr.js
 - ackFileBrowser.js
 - audit.js
 - castrCreateNewReport.js
 - crrFileBrowser.js
 - filing_institution.js
 - financial_institution_activity_occured.js
 - narrative.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
- usr_xsd_validation.js
- ussar_CreateNewReport.js
- ussar_DocAttach.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_FED_REGULATOR_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
- SDTM Batch Files
 - TransferAckToSecurelane.sh
 - TransferEfileToSecurelane.sh
 - TransferMSGToSecurelane.shs

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
 - 32787387_MESSAGES_EN_US_8111.sql
 - 8122_OJET_FFW.sql
 - AAI_PROV_JIT_RRS.sql
 - CRR_EG_AutoDirAdd.sql
 - CRR_EG_AutoDirAddG.sql
 - CRR_EG_TAB4_ENTITY30.sql
 - CRR_EG_TAB4_ENTITY40.sql
 - CRR_USSAR_PMF.sql
 - Menu_611.sql

- EXCEL_MAPPING_MASTER_LP.sql
- INSERT_INFODOM_PATCHES.sql
- MESSAGES_EN_US_OJET_CASTR.sql
- RR_Sec_Lane_Params.sql
- USSAR_FFW_812.sql
- Application Scripts
 - 4244_APPLN_PARAMETERS.sql
 - 8121_APPLN_PARAMETERS.sql
 - APPLN_PARAMETERS.SQL
 - APPLN_PARAMETERS_8122.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
 - FCC_CRR_UIB_ATTRIBUTE.sql
 - FCC_CRR_UIB_ENTITY.sql
 - FCC_CRR_UIB_FODEFN.sql
 - FCC_CRR_UIB_STDCONFIG.sql
 - SETUP_CRR_ACK_PATTERN.sql
 - SRC_TARGET_CONFIG_GOAML_NGECM.sql
 - USSAR_LP_Script.sql
 - OFSAACMPRR-11669.sql
 - OFSAACMPRR-12883.sql
 - DIM_NAICS_CODE.sql
 - DIM_NAICS_CODE_2887.sql
 - DIM_SUS_ACTIVITY.sql
 - FrmAckDtlsG.sql
 - FrmAckG.sql
 - FrmAck_OPR.sql
 - FrmCRRAckw.sql
 - FrmCRRCompTypeData.sql
 - FrmCRRConfig.sql
 - FrmCRRConfigHDRG.sql

- FrmCRRConfig_OPR.sql
- FrmCRREntDtIs.sql
- FrmCRREntJoin.sql
- FrmCRROutputAttr.sql
- FrmCRROutputData.sql
- FrmCRROutputEntities.sql
- FrmCRRSRCAttr.sql
- FrmCRRSrcData.sql
- FrmCRRSrcTrg.sql
- FrmCRRVadDtIs.sql
- FrmCRRVadFormDtIs.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
 - CRR_PURGE_TABLE_SCRIPT.sql
 - PLC_CRRPURGE.sql
 - PLC_FN_JIT_CRR_SYNCH_ADHOC_BATCH.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
 - 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_ACTVITY_INFO_PE.sql
 - MAP_BRANCH_INFO_PE.sql
 - MAP_FININST_INFO_PE.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.xml
- merge_Persistence.xml
- merge_web.xml
- merge_wsdd.xml

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 `34941227_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 34941227_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_8.1.2.4.0.htm
5. Navigate to the `<USER_PATCH_DIR>/34941227/bin` directory and grant 755 permission using the following command:


```
$ chmod 755 *
```
 6. Update the parameter `##RR_UPLOAD_MODEL##` in the `<USER_PATCH_DIR>/34941227/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
```
 9. Check if the ML release is applied successfully by verifying the patch install logs under the `<USER_PATCH_DIR>/34941227/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>/externallib/WEB-INF/lib/

Make sure the classpath is configured to the path where the above jars are copy under web-sphere 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 8.1.2.4.0 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 8.1.2.4.0 with JAVA11.

NOTE Do not bring up the environment until CRR 8.1.2.4.0 is applied and configured.

2. Follow the steps from [Pre-Installation](#) for applying CRR 8.1.2.4.0.

OFSAA Support Contact Details

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

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