OFS Credit Risk Analytics

Installation Guide

Release 8.1.2.1.0

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OFS Credit Risk Analytics Pack Installation Guide

Document Control

Version Number	Revision Date	Changes Done
1.0	Sep 2022	Created document to capture OFS CRA 8.1.2.1.0 Maintenance Level Release.

Executive Summary

This document includes the necessary instructions to apply the OFS CRA 8.1.2.1.0 Maintenance Level Release and perform the required post-install configurations. You can find the latest copy of this document in the OHC Documentation Library which includes all the recent additions or revisions (if any).

Table of Contents

1 Preface

This document provides step-by-step instructions to install the Oracle Financial Services Credit Risk Analytics (OFS CRA) Application Pack 8.1.2.1.0 Maintenance Level Release.

This chapter discusses the following topics:

- Audience
- Access to Oracle Support
- Related Documents
- Conventions and Acronyms

1.1 Audience

The OFS CRA Application Pack Installation Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

1.1.1 Prerequisites for the Audience

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

- Oracle Financial Services Credit Risk Analytics Application Pack components
- OFSAA Architecture
- UNIX Commands
- Database Concepts
- Web Server or Web Application Server

1.2 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support (MOS). For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

1.3 Related Documents

See the below OFS Credit Risk Analytics Applications Pack documents available on OHC Documentation Library.

- Oracle Financial Services Credit Risk Analytics User Guide
- Oracle Financial Services Credit Risk Analytics Release Notes
- Oracle Financial Services Credit Risk Analytics Cloning Guide
- Oracle Financial Services Credit Risk Analytics Security Guide

1.4 Conventions and Acronyms

The following table lists the conventions and acronyms used in this document.

Table 1: Conventions and Acronyms

Conventions	Description
Screen actions are indicated in Bold	
IR	Interim Release
ML	Maintenance Level Release
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OFS CRA	Oracle Financial Services Credit Risk Analytics
OHC	Oracle Help Center
AIX	Advanced Interactive eXecutive
RHEL	Red Hat Enterprise Linux
OEL	Oracle Enterprise Linux
OS	Operating System
EAR or WAR	Enterprise Archive or Web Archive
J2EE	Java 2 Enterprise Edition
OTN	Oracle Technology Network
Atomic Schema	Database schema where the application data model is uploaded.
Configuration Schema	Database schema which contains setup related configurations and metadata.

2   OFS CRA Release 8.1.2.1.0

OFS CRA 8.1.2.1.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements done since the previous Major release, v8.1.2.0.0.

You can install this ML release of OFS CRA on a setup with any OFSAA v8.1.2.0.0 Application Pack.

NOTE	In an environment consisting of multiple OFSAA applications, if the October 2020 Critical Patch Update is applied for any one application, it is mandatory to apply the respective October 2020 Critical Patch Updates for all other applications on that OFSAA instance, regardless of the application's version. See the My Oracle Support Doc ID 2724021.1 for details.

2.1   Pre-installation Requirements

The prerequisites are as follows:

- Ensure that you have OFS CRA version 8.1.2.0.0 as the minimum patch set level.

NOTE	Starting September 2020, OFSAA Application Minor releases out of the box (OOB) data models use the latest erwin Data Modeler version. The new erwin Data Modeler version supported is 2020 R2. Provided a roadmap of the erwin Data Modeler versions usage for the OFSAA out of the box Data Models in the MOS Doc ID 2725208.1.

2.2   Installing this Maintenance Level Release

To install this ML release, follow these steps:

1. Login to My Oracle Support (MOS) and search for **34300695** under the *Patches & Updates* tab. See the note in the Pre-installation Requirements section for details related to Data Model patch for this release.

NOTE	Download the OFS CRA 8.1.2.1.0 erwin data model patch **34577747** from My Oracle Support. You can search for the patch number and download the patch from the **Patches and Updates** tab.

2. Download the *OFS_CRA_8.1.2.1.0_LINUX.zip* archive file and copy it to your OFSAA server in Binary mode.

> | **NOTE** | There are different archive files for different operating systems such as Solaris, and RHEL or OEL. |

3. Stop all the OFSAAI services. For more information, see the *Stop The Infrastructure Services* section in the Oracle Financial Services Analytical Applications Infrastructure Installation Guide 8.1.2.0.0.

4. Login to the OFSAA server as a non-root user, navigate to the `$FIC_HOME` directory, and execute the command:

```
chmod -R 775 *
```

5. If you have Unzip utility, skip to the next step, else download the Unzip utility (OS-specific) and copy it in Binary mode to the directory that is included in your PATH variable, typically `$HOME` path or directory in which you have copied the 8.1.0.1.0 ML.

   - Uncompress the unzip installer file using the command:

   ```
   uncompress unzip_<os>.Z
   ```

> | **NOTE** | If you notice an error message "*uncompress: not found [No such file or directory]*" when the package is not installed, contact your UNIX administrator. |

   - Give EXECUTE permission to the utility using the command:

   ```
   chmod 751 unzip_<os>
   ```

   For example, `chmod 751 unzip_LINUX`

6. Extract the contents of the 8.1.2.1.0 ML archive file using either of the following commands:

```
unzip <name of the file to be unzipped>
```

7. Update the configuration file `params.conf` file before triggering the installation. The file `params.conf` is available in the directory: `OFS_CRA_PACK/appsLibConfig/conf`.

   Following are the input parameters for `params.conf` file:

   UPLOAD_MODEL= 1

   MODEL_TYPE= 0

8. Give EXECUTE permission to the ML patch installer script. Navigate to the `OFS_CRA_PACK` directory and execute the command:

```
chmod 755 OFSAAIUpdate.sh
```

9. Execute the following install command:

```
./OFSAAIUpdate.sh
```

10. Verify if the ML is applied successfully by checking the log files generated in the `OFS_CRA_PACK/OFS_CRA/logs` directories. You can ignore the ORA-00001 and ORA-02292 errors in the log file. In case of any other errors, contact My Oracle Support (MOS).

> **NOTE**   See the OFS Analytical Applications Technology Matrix for a list of supported servers for OFS CRA 8.1.2.0.0.

11. After successful installation of the ML, perform the following steps:

    - Clear the application cache. Navigate to the following directory depending on the configured web application server and delete the files.

        — **Tomcat**: <Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp

        — **WebLogic**: <WebLogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>

        — **WebSphere**: <WebSphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>

    - Deploy the RPD and Web Catalog file(s)

        — Take a backup of deployed `CRMBI.rpd` and `CRMBI.catalog` files from the OBIEE environment.

        — Navigate to the `$FIC_HOME/OFS_CRA_DASHBOARDS/12.2.1.4.0/datamodel` directory which contains the `CRMBI.rpd` file and the `$FIC_HOME/OFS_CRA_DASHBOARDS/12.2.1.4.0/content/catalog` directory which contains the `CRMBI.catalog` file. Deploy both the files into OBIEE deployment area.

        — Modify the connection pool and set the properties.

        — Any customization performed on the older RPD and Web Catalog files requires to be manually carried over to the newer ones post-deployment.

        — Clear OBIEE cache, if enabled.

        — For more information on deploying RPD and Web Catalog files, see *Deploying the application* section in Oracle Financial Services Credit_Risk_Analytics Installation Guide 8.1.2.0.0,

12. Delete the existing EAR or WAR file available in the folder `$FIC_HOME/ficweb`.

13. Add umask 0027 in the `.profile` of the UNIX account which manages web server to ensure restricted access permissions.

14. Navigate to the web component deployed area. If you are deploying on a fresh environment, then delete the generated .war file. If you are installing in an existing environment, then delete the generated .war file and the folder created along with it.

15. Generate the application EAR or WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR or WAR file, see the *Post Installation Configurations* section in the Oracle Financial Services Credit_Risk_Analytics Installation Guide 8.1.2.0.0.

NOTE	If any application with FSDF version 8.1.2.2.0 is installed after installing CRA version 8.1.2.1.0 then, change the T2T_STG_LC_CAS T2T source expression of N_CREDIT_STATUS as COALESCE(DIM_CREDIT_STATUS.N_CREDIT_STATUS_SKEY,NVL2(STG_LC_CONTRACTS.V_CREDIT_STATUS_CD,-1,0)) and append the below join in ANSI JOIN:

```
'LEFT OUTER JOIN DIM_CREDIT_STATUS ON
DIM_CREDIT_STATUS.V_CREDIT_STATUS =
STG_LC_CONTRACTS.V_CREDIT_STATUS_CD AND
STG_LC_CONTRACTS.FIC_MIS_DATE >=
DIM_CREDIT_STATUS.D_RECORD_START_DATE AND
STG_LC_CONTRACTS.FIC_MIS_DATE <=
DIM_CREDIT_STATUS.D_RECORD_END_DATE'
```

16. Restart all the OFSAAI services. For more information, see the *Starting Infrastructure Services* section in the [Oracle Financial Services Credit Risk Analytics Installation Guide 8.1.2.0.0](#).

2.2.1 Configuring Tomcat for User Group Authorization, Data Mapping, and Disabling WADL for the Web Service

Users with system authorization roles can access User Group Authorization. However, to make it available on Tomcat web server, you have to perform the following configuration steps:

1. Navigate to the $FIC_WEB_HOME/webroot/WEB-INF/ folder and open web.xml file.

2. Enter the following in the web.xml file.

```
<init-param>
<param-name>mappedfile</param-name>
<param-value>false</param-value>
</init-param>
```

3. To disable the WADL for the Web Service, navigate to the following snippet in the web.xml file.

```
<servlet>
<servlet-name>CommonRESTServlet</servlet-name>
<servlet-class>org.glassfish.jersey.servlet.ServletContainer</servlet-class>
<init-param>
<param-name>javax.ws.rs.Application</param-name>
<param-value>com.ofs.fsapps.commonapps.util.ApplicationResourceConfig</param-value>
</init-param>
<load-on-startup>1</load-on-startup>
</servlet>
```

4. Add the following snippet before the <load-on-startup>1</load-on-startup> attribute.

    ```
    <init-param>
    <param-name>jersey.config.server.wadl.disableWadl</param-name>
    <param-value>true</param-value>
    </init-param>
    ```

5. Save and close the file.

3   Appendix A: Frequently Asked Questions

What checks does the 8.1.2.1.0 Release patch perform?

Environment Check- As part of the environment check, it performs Java validation, Environment Variables validation, OS-specific validation, DB specific validation, and it shuts down all OFSAAI Services (Infrastructure Server, ICC Server, and back-end services).

Post Install check- As part of Post-install check, it checks if OFSAAI services can be successfully started.

Which version of erwin Data Modeler does OFS CRA support?

OFS CRA 8.1.2.1 supports erwin v9.8.

OFSAA Support

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

Send Us Your Comments

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- 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 and page number (if available) and contact the Oracle Support.

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