

OFS Liquidity Risk Solution Pack

Installation Guide

Release 8.0.8.1.0

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OFS Liquidity Risk Solution Pack Installation Guide

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Document Control

Version Number	Revision Date	Changes Done
Version 1.0	November 2019	Created document to capture OFS LRS 8.0.8.1.0 Maintenance Level Release.
Version 2.0	August 2020	Re-release Updated details for 19c Database and Client in the Pre-installation Requirements section.
Version 3.0	November 2020	Added a note with information regarding Doc ID 2724021.1.
Version 4.0	January 2021	Added WebLogic upgrade information in the Pre-installation Requirements section.
Version 5.0	December 2021	Added information about the log4j patch release.

Executive Summary

This document includes the necessary instructions to apply the OFS LRS 8.0.8.1.0 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).

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1 Preface

This document provides step-by-step instructions to install the Oracle Financial Services Liquidity Risk Solution (OFS LRS) Application Pack 8.0.8.1.0 Maintenance Level Release.

This chapter discusses the following topics:

- [Audience](#)
- [Recommended Environment](#)
- [Related Documents](#)
- [Conventions and Acronyms](#)

1.1 Audience

The OFS LRS 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 Liquidity Risk Solution Application Pack components
- OFSAA architecture
- UNIX commands
- Database concepts
- Web server or web application server

1.2 Recommended Environment

Infrastructure application has been tested with Microsoft Internet Explorer™ browser. For best viewing of pages, set the screen resolution to a minimum resolution of 1024 x 768 pixels.

1.2.1 Access to Oracle Support

Oracle customers have access to electronic support through [My Oracle Support](#). 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 Liquidity Risk Solution Applications Pack documents available in the [OHC Documentation Library](#).

- Oracle Financial Services Liquidity Risk Measurement and Management User Guide Release 8.0.8.0.0
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Reserve Bank of India User Guide Release 8.0.8.0.0
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank of Thailand User Guide Release 8.0.8.0.0
- Oracle Financial Services Liquidity Risk Regulatory Calculations for European Banking Authority User Guide Release 8.0.8.0.0
- Oracle Financial Services Liquidity Risk Measurement and Management Analytics User Guide Release 8.0.8.0.0
- Oracle Financial Services Analytical Applications Infrastructure User Guide ([OHC Documentation Library](#))
- Oracle Financial Services Analytical Applications Infrastructure Installation Guide ([OHC Documentation Library](#))

1.4 Conventions and Acronyms

The following table lists the conventions and acronyms used in the 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 LRS	Oracle Financial Services Liquidity Risk Solution
OFS LRM	Oracle Financial Services Liquidity Risk Management
OHC	Oracle Help Center
AIX	Advanced Interactive eXecutive
RHEL	Red Hat Enterprise Linux
OEL	Oracle Enterprise Linux
OS	Operating System
EAR / 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.

Conventions	Description
Configuration Schema	Database schema which contains setup related configurations and metadata.

2 OFS LRS Release 8.0.8.1.0

OFS LRS v8.0.8.1.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements since the previous Minor release v8.0.8.0.0.

This ML release of OFS LRS can be installed on a setup with any OFSAA v8.0.8.0.0 Application Pack.

NOTE

- If you have defined any custom run purpose, ensure to take a backup of the tables FSI_LRM_LOOKUP_TL and FSI_LRM_PROCESS_PURPOSE_MAP, before you run the upgrade.
- 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:

- You should have OFS LRS v8.0.8.0.0 as the minimum patch set level.
- OFS LRS Release v8.0.8.1.0 is compatible with WebLogic 12.2.x and does not support WebLogic 12.1.3. If the WebLogic version is 12.1.3, upgrade to WebLogic 12.2.x.
- Login to [My Oracle Support](#). Download and install the one-off patches **29952285** and **30273976**.
- Login to [My Oracle Support](#). Download and install the OFS LRS one-off patches (ID: **31919358** (LCR) and **31921356** (DIC)).
- Oracle Database Release 19c Client and Server configuration:
 - For a fresh install of OFS LRS v8.0.8.1.0 with Oracle Database Release 19c Client and Server, modify the `VerInfo.txt` file in the `OFS_LRS_PACK/OFS_AAI/bin` directory as follows:


```
AIX_VERSION=6.1,7.1
SunOS_VERSION=5.10,5.11
Linux_VERSION=6,7
DB_CLIENT_VERSION=11.1,11.2,12.1,12.2,18.0,19.0
DB_SERVER_VERSION=11,12,18,19
JAVA_VERSION=1.7,1.8
```
 - For details about configuring the Oracle Database Release 19c Server and Client for existing installations of OFSAA running Oracle Database Release 12c Server and Client, see the MOS Doc ID: [2699715.1](#).
- The following pre-installation steps for upgrading from OFS LRS v8.0.8.0.0 to LRS v8.0.8.1.0 must be performed:

- Log in in to the Config Schema.
- Execute the following statement to create a backup table for the AAI_APP_PACK_B table:

```
CREATE TABLE AAI_APP_PACK_B_LRS_808_BKP AS
SELECT * FROM AAI_APP_PACK_B
/
```

- Execute the following statement to create the backup table for the AAI_APP_B table:

```
CREATE TABLE AAI_APP_B_LRS_808_BKP AS
SELECT * FROM AAI_APP_B
/
```

- Execute the following statements:

```
UPDATE AAI_APP_PACK_B
SET V_VERSION = '8.0.8.0.0'
WHERE V_APP_PACK_ID = 'OFS_LRS_PACK'
/
UPDATE AAI_APP_B
SET V_VERSION = '8.0.8.0.0'
WHERE V_APP_ID IN ('OFS_LRM_LCR', 'OFS_LRM_DIC')
/
COMMIT
/
```

2.2 Installing This Maintenance Level Release

To install this ML release, follow these steps:

1. Login to [My Oracle Support](#) and search for **30359237** under the *Patches & Updates* tab.
1. Download the *OFSAA 8.0.8.0.0 LRS ML RELEASE #1* archive file and copy it to your OFSAA server in Binary mode.

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

2. Stop all the OFSAAI services. For more information, see the Stopping Infrastructure Services section in the [Oracle Financial Services Liquidity Risk Solution Installation Guide 8.0.8.0.0](#).

ATTENTION On the 10th of December 2021, Oracle released Security Alert CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J before version 2.15. The application of the **33663417** Mandatory Patch fixes the issue.

For details, see the My Oracle Support Doc ID [2827801.1](#).

Ensure that you reapply the 33663417 Mandatory Patch whenever you install or upgrade the application or apply an incremental patch.

3. Login to the OFSAA server as a non-root user and navigate to the `$FIC_HOME` folder.
4. Assign WRITE permission to the file or folders such as commonscripts, EXEWebService, ficapp, ficweb, and ficdb by executing the command:

```
chmod -R 775 *
```

5. If you have Unzip utility, skip to the next step or 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 8.0.8.1.0 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_aix`

6. Extract the contents of the 8.0.8.1.0 ML archive file using either of the following commands:

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

7. Update the configuration file `params.conf` before triggering the installation. The `params.conf` file is available for LCR and DIC separately, in the directories: `OFS_LRS_PACK/OFS_LRM_LCR/conf` and `OFS_LRS_PACK/OFS_LRM_DIC/conf`. Ensure to modify the file in both the folders, irrespective of the licensing.

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

Model Upload Process: Input values required are 0/1

- 1 indicates Trigger Model Upload
- 0 indicates Skip Model upload process

If the value is 1, then the next option is to specify the type of Model Upload

- 0 indicates Released Data Model
- 1 indicates Customized Data Model

If the value of Model Upload type is 1, then provide the inputs for the Data Model name and the path of Data Model.

8. Give EXECUTE permission to the ML patch installer script. Navigate to the `OFS_LRS_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 directories:
OFS_LRS_PACK/OFS_LRM_DIC/logs and OFS_LRS_PACK/OFS_LRM_LCR/logs. You can ignore the ORA-00001 and ORA-02292 errors in the log file. In case of any other errors, contact [My Oracle Support](#).

NOTE See the [OFS Analytical Applications Technology Matrix](#) for a list of supported servers for OFS LRS 8.0.8.0.0.

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 `Liquidity_Risk_Management_Pack.rpd` and `Liquidity_Risk_Management_Pack.catalog` files from the OBIEE environment.
 - Navigate to the `$FIC_HOME/TR_BI/repository/` directory which contains the `Liquidity_Risk_Management_Pack.rpd` file and the `$FIC_HOME/TR_BI/catalog/` directory which contains the `Liquidity_Risk_Management_Pack.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 must be manually carried over to the new files post-deployment.
 - Clear OBIEE cache, if enabled.
 - For more information about deploying the RPD and web catalog files, see *Deploying the Application* section in [Oracle Financial Services Liquidity Risk Solution Installation Guide – Release 8.0.8.0.0](#).
 - Delete the existing EAR or WAR file available in the `$FIC_HOME/ficweb` directory.
- 12. Add umask 0027 in the .profile of the UNIX account which manages the web server to ensure restricted access permissions.**
- 13. 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.**

14. 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 Liquidity Risk Solution Installation Guide 8.0.8.0.0](#).
15. Restart all the OFSAI services. For more information, see the Starting Infrastructure Services section in the [Oracle Financial Services Liquidity Risk Solution Installation Guide 8.0.8.0.0](#).

3 Appendix A: Frequently Asked Questions

What checks does the 8.0.8.0.0 Release 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 OFSAI Services (Infrastructure Server, ICC Server, and back-end services).

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

Which version of erwin Data Modeler does OFS LRS support?

OFS LRS supports the erwin version 9.64.

OFSAA Support

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

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