OFS Liquidity Risk Solution Pack Installation Guide





OFS Liquidity Risk Solution Pack Installation Guide, Release 8.1.2.2.0

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Preface

This document provides step-by-step instructions to install the Oracle Financial Services Liquidity Risk Solution (OFS LRS) Application Pack 8.1.2.2.0 Maintenance Level Release.

This chapter discusses the following topics:

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.

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

Access to Oracle Support

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
- http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs

if you are hearing impaired.

Related Documents

See the below OFS Liquidity Risk Solution Applications Pack documents available on OHC Documentation Library.

- Oracle Financial Services Liquidity Risk Measurement and Management User Guide
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Reserve Bank of India User Guide



- Oracle Financial Services Liquidity Risk Regulatory Calculations for European Banking Authority User Guide
- Oracle Financial Services Liquidity Risk Measurement and Management Analytics User Guide
- Oracle Financial Services Liquidity Risk Measurement and Management US Federal Reserve
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank of Thailand
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Monetary Authority of Singapore
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Hong Kong Monetary Authority
- Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank Negara Malaysia
- Oracle Financial Services Deposit Insurance Calculations for Liquidity Risk Management
- Oracle Financial Services Performance Tuning User Guide
- Oracle Financial Services Analytical Applications Infrastructure User Guide
- Oracle Financial Services Analytical Applications Infrastructure Installation Guide
- Oracle Financial Services Liquidity Risk Measurement and Management Release Notes

Conventions and Acronyms

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

Table 1-1 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 or WAR	Enterprise Archive or Web Archive
J2EE	Java 2 Enterprise Edition
OTN	Oracle Technology Network



Table 1-1 (Cont.) Conventions and Acronyms

Conventions	Description
Atomic Schema	Database schema where the application data model is uploaded.
Configuration Schema	Database schema which contains setup related configurations and metadata.



OFS LRS Release 8.1.2.2.0

OFS LRS 8.1.2.2.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements done since the previous Major release, v8.1.2.0.0.

This ML release of OFS LRS can be installed on a setup with any OFSAA v8.1.02.0.0 Application Pack.



If you have defined any custom run purpose, ensure to take a back up of the tables FSI_LRM_LOOKUP_TL and FSI_LRM_PROCESS_PURPOSE_MAP, before you install the ML.

Pre-installation Requirements

The prerequisites are as follows:

- Ensure that you have OFS LRS version v8.1.02.0.0 as the minimum patch set level.
- Login to My Oracle Support (MOS), download and install the OFSAAI v8.1.02.1 ML release (ID: 33865657)

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.

Installing this Maintenance Level Release

To install this ML release, follow these steps:

- Login to My Oracle Support (MOS) and search for 34398230 under the Patches & Updates tab. See the note in the Pre-installation Requirements section for details related to Data Model patch for this release
- 2. Download the OFS_LRS_8.1.2.2.0_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.

Note:

Download the OFS LRS 8.1.2.2.0 erwin Data Model patch 34627244 from My Oracle Support. You can search for the patch number and download the patch from the Patches and Updates tab.

- 3. Stop all the OFSAAI services. For more information, see the Stopping Infrastructure Services section in the Oracle Financial Services Liquidity Risk Solution Installation Guide.
- 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 (OSspecific) 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 8.1.2.2.0 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 8.1.2.2.0 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 file params.conf is available in the directory: OFS_LRS_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_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 OFS LRS PACK/OFS LRM DIC/logs and OFS LRS PACK/OFS LRM LCR/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 LRS 8.1.2.0.0.

- 11. After successful installation of the ML, perform the following steps:
 - **a.** 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>
 - b. Deploy the RPD and Web Catalog file(s)
 - Take a backup of deployed RPD and catalog files from the OBIEE environment.
 - ii. Navigate to the \$FIC_HOME/OFS_LRM_DASHBOARDS/12.2.1.4.0/datamodel directory which contains the following catalog files:
 - Liquidity_Risk_Management_pack.catalog: \$FIC_HOME/ OFS_LRM_DASHBOARDS/12.2.1.4.0/content/catalog
 - BNM.catalog: \$FIC_HOME/OFS_LRM_LCR_BNM/OFS_LRM_DASHBOARDS/ 12.2.1.4.0/content/catalog
 - Bank of Thailand.catalog: \$FIC_HOME/OFS_LRM_LCR_BOT/ OFS_LRM_DASHBOARDS/12.2.1.4.0/content/catalog
 - **HKMA.catalog**: \$FIC_HOME/OFS_LRM_LCR_HKMA/OFS_LRM_DASHBOARDS/ 12.2.1.4.0/content/catalog
 - RBI.catalog: \$FIC_HOME/OFS_LRM_LCR_RBI/OFS_LRM_DASHBOARDS/ 12.2.1.4.0/content/catalog
 - USFED.catalog: \$FIC_HOME/OFS_LRM_LCR_USFED/OFS_LRM_DASHBOARDS/ 12.2.1.4.0/content/catalog
 - Deposit Insurance.catalog: \$FIC_HOME/OFS_LRM_DIC_USFED/OFS_LRM_DASHBOARDS/12.2.1.4.0/content/catalog



Note:

Ignore the existing files in \$FIC_HOME/
OFS_LRM_DASHBOARDS/12.2.1.4.0/content/
catalog folder:

- BNM.catalog
- Bank of Thailand catalog
- HKMA.catalog
- Deposit Insurance.catalog
- RBI.catalog
- USFED.catalog
- iii. Modify the connection pool and set the properties.
- iv. Any customization performed on the older RPD and Web Catalog files requires to be manually carried over to the newer ones post-deployment.
- v. Clear OBIEE cache, if enabled. For more information on deploying RPD and Web Catalog files, see Deploying the application section in Oracle Financial Services Liquidity Risk Solution Installation Guide
- 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 Liquidity Risk Solution Installation Guide.
- **16.** Restart all the OFSAAI services. For more information, see the Starting Infrastructure Services section in the Oracle Financial Services Liquidity Risk Solution Installation Guide.

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:

 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>
```

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.

Post-installation steps for 8.1.2.2.0 One-off patch

Perform the following post-installation steps:

1. OFS LRS 8.1.2.2 needs additional attributes in the Data Model. Extend OFS LRS 8.1.2.2 Data Model with the following attributes.



These columns are regularized as part of next available OFS LRS ML/IR Release.



Table 2-1 Data Model Attributes for 8.1.2.2.0 release

Phys ical Table Nam e	mn	Logic al Nam e	Data Type	Dom ain	Null Allow ed?	PK	FK	Refer ence Table Nam e	Refer ence Colu mn Nam e	Colu mn Com ment s	Bug ID
LIQUI DITY	V_RE P_LIN E_CO LLEC TION S	ting Line Collec	HAR 2(200	Mess	Yes	No	No			This attribu te stores report ing line collec tions	3452 8157
FSI_ REP_ LINE _CO MME NT	P_LIN E_CO	Line Collec	HAR 2(200	Mess	Yes	No	No			This attribu te stores report ing line collec tions	3452 8157
APP_	F_BA SEL_ CAPI TAL_ ELIG _FLA G	Basel Capit al Eligibi lity Flag		Flag	Yes	No	No			This colum n stores the flag to indica te wheth er the instru ment is eligibl e to consi der for capita I calcul ation as per Basel guidel ines	3431 1155



Table 2-1 (Cont.) Data Model Attributes for 8.1.2.2.0 release

Phys ical Table Nam e	mn	Logic al Nam e	Data Type	Dom ain	Null Allow ed?	PK	FK	Refer ence Table Nam e	Refer ence Colu mn Nam e	Colu mn Com ment s	Bug ID
APP_	G_TL	Total Loss	CHA R(1)	Flag	Yes	No	No			This colum n will be used to indica te if the instru ment meets all the eligibil ity criteri a of a total loss absor bing capac ity instru ment. These eligibil ty criteri a are jurisdi ction specif ic. Thi s will be a downl oad colum n and will have list of value s as Y or N.	3431 1155



Table 2-1 (Cont.) Data Model Attributes for 8.1.2.2.0 release

Phys ical Table Nam e	mn	Logic al Nam e	Data Type	Dom ain	Null Allow ed?	PK	FK	Refer ence Table Nam e	Refer ence Colu mn Nam e	Colu mn Com ment s	Bug ID
FSI_L RM_ REP_ LINE _DTL S	V_LO B_CO DE		HAR	DESC RIPTI ON	Yes	No	No			Line of busin ess (LOB) is a functi onal unit that offers the financ ial entity's produ cts to the custo mer. Exam ple: Corpo rate Finan ce, Trade Servic es, Privat e Wealt h Mana geme nt, Treas ury Services, Retail Banki ng, Cards services etc. This colum n stores	3448 7217



Table 2-1 (Cont.) Data Model Attributes for 8.1.2.2.0 release

Phys ical Table Nam e	mn	Logic al Nam e	Data Type	Null Allow ed?	PK	FK	ence	Refer ence Colu mn Nam e	mn Com ment	Bug ID
									the	
									uniqu	
									e	
									code of the	
									line of	
									busin	
									ess	
									applic	
									able	
									to the	
									respe	
									ctive	
									produ	
									ct.	



Table 2-1 (Cont.) Data Model Attributes for 8.1.2.2.0 release

Phys ical Table Nam e	Colu mn Nam e	Logic al Nam e	Data Type	Dom ain	Null Allow ed?	PK	FK	ence	Refer ence Colu mn Nam e	Colu mn Com ment s	Bug ID
RM_I	N_PE RPET UAL_ MAT_ TB_S KEY	Maturi ty	BER(Surro gateK ey_Lo ng	Yes	No	No			Store s the Perpe tual Maturi ty Time Bucke t Surro gate Key. This attribu te is derive d by the app based on based on Embe dded option s flag and Conv ertible Option ns Indica tor for a certai n set of identified produ cts under Invest ments and Borro wings	3448 1885

2. Resave the hierarchies HLCOM012, LRMLA011, and LRMLA012.

3

Appendix A: Frequently Asked Questions

What checks does the 8.1.2.0.0 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 LRS support?

OFS LRS 8.1.02.21 supports erwin v9.8



Part I

OFSAA Support

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

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