Oracle Financial Services Liquidity Risk Solution (OFS LRS) Application Pack

Installation Guide

Version 8.0.7.1.0

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DOCUMENT CONTROL

Version Number	Revision Date	Changes Done
Version 1.0	January 2019	Created document to capture OFS LRS 8.0.7.1.0 Maintenance Level Release
Version 2.0	December 2021	Added information about patch for the log4j issue.
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Executive Summary

This document includes the necessary instructions to apply the OFS LRS 8.0.7.1.0 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/revisions (if any).

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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 8.0.7.1.0 Maintainence Level Release.

This chapter discusses the following topics:

- Audience
- How this Guide is Organized
- Recommended Environment
- Related Documents
- Conventions and Acronyms

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/ Web Application Server

How this Guide is Organized

The OFSLRS Application Pack Installation Guide includes the following topics:

- OFS LRS Release 8.0.7.1.0
- Appendix A – Frequently Asked Questions (FAQ)

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.

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.

Related Documents

For more information, refer the OFS Liquidity Risk Solution Applications Pack documents available in the OHC Documentation Library.

- Oracle Financial Services Liquidity Risk Measurement and Management User Guide Release 8.0.7.0.0

- OFS Liquidity Risk Regulatory Calculations for Reserve Bank of India 8.0.7.0.0 User Guide

- OFS Liquidity Risk Regulatory Calculations for US Federal Reserve 8.0.7.0.0 User Guide

- OFS Liquidity Risk Regulatory Calculations for European Banking Authority 8.0.7.0.0 User Guide

- OFS Deposit Insurance Calculation for Liquidity Risk Management 8.0.7.0.0 User Guide

- Oracle Financial Services Liquidity Risk Measurement and Management Analytics User Guide Release 8.0.7.0.0

- Oracle Financial Services Analytical Applications Infrastructure User Guide (OHC Documentation Library)

- Oracle Financial Services Analytical Applications Infrastructure Installation Guide (OHC Documentation Library)

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

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Conventions	Description
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 / 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.

1   OFS LRS Release 8.0.7.1.0

OFS LRS 8.0.7.1.0 Maintenance Level (ML) includes all the bug fixes and minor enhancements done since the previous General Availability (GA) release, that is, 8.0.7.0.0. This release is specific to FDIC Part 370.

This ML release of OFS LRS can be installed on a setup with any OFSAA 8.0.7.0.0 Application Pack.

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1.1 Pre Installation Requirements

- You should have OFS LRS version **8.0.7.0.0** as the minimum patch set level.

- Execute the command:

```
CREATE TABLE FSI_DEPOSIT_INSURANCE_DTLS_B AS SELECT * FROM FSI_DEPOSIT_INSURANCE_DTLS

TRUNCATE TABLE FSI_DEPOSIT_INSURANCE_DTLS
```

- OFS LRS 8.0.7.1 needs additional attributes in the data model. Extend OFS LRS 8.0.7.1 data model with the following attribute. Ensure that the model upload is performed on OFS LRS 8.0.7.1 setup.
  Note: These columns will be regularized as part of OFS LRS next available ML/IR Release.

Physical Table Name	Column Name	Attribute Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Bug ID	Column Default Value (if any)
Fsi_Deposit_Insurance_Dtls	n_eop_excess_payment_lcy	End Of Period Excess Payment Amount in Local Currency	NUMBER(22,3)	Amount	Yes	No	No			This attribute stores the end of period excess payment amount in local currency made by the customer.	2902 2777	

Physical Table Name	Column Name	Attribute Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Bug ID	Column Default Value (if any)
Fsi_Deposit_Insurance_Dtls	n_eop_excess_payment_rcy	End Of Period Excess Payment Amount in Reporting Currency	NUMBER(22,3)	Amount	Yes	No	No			This attribute stores the end of period excess payment amount in reporting currency made by the customer.	2902 2777	
Fsi_Deposit_Insurance_Dtls	n_eop_excess_payment	End Of Period Excess Payment Amount	NUMBER(22,3)	Amount	Yes	No	No			This attribute stores the end of period excess payment amount made by the customer.	2902 2777	

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Physical Table Name	Column Name	Attribute Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Bug ID	Column Default Value (if any)
Fsi_Deposit_Insurance_Dtls	n_separately_insured	Separately Insured	NUMBER(10)	Code_Numeric_Medium	Yes	No	No			This column stores the information if the deposit account is separately insured or not. This column will be updated by App sepcific rules.	2902 2777	
stg_cards	v_insurance_scheme_code	Insurance Scheme Code	VARCHAR2(20)	Code_Alphanumeric_Long	Yes	No	No			This column stores the unique code associated with the insurance	2902 2777	

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Physical Table Name	Column Name	Attribute Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Bug ID	Column Default Value (if any)
										scheme of the account. Dim Insurance Scheme is the equivalent dimension table for this column.		
stg_prepaid_cards	v_insurance_scheme_code	Insurance Scheme Code	VARCHAR2(20)	Code_Alphanumeric_Long	Yes	No	No			This column stores the unique code associated with the insurance scheme of the account. Dim	2902 2777	

Physical Table Name	Column Name	Attribute Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Bug ID	Column Default Value (if any)
										Insurance Scheme is the equivalent dimension table for this column.		

1.2 How to Apply This Maintenance Level Release?

Refer to the following instructions to install this patch set.

1. Login to https://support.oracle.com/ and search for **29203225** under the *Patches & Updates* tab.

2. Download the OFSAA 8.0.7.0.0 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/OEL.

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3. Stop all the OFSAAI services. For more information, see the *Starting/ Stopping Infrastructure Services* section in the Oracle Financial Services Liquidity Risk Solution Installation Guide 8.0.7.0.0 on OHC Documentation Library.

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.

4. Login to the OFSAA server as a non-root user and navigate to the **$FIC_HOME** folder.

5. Assign WRITE permission to the files/ folders such as commonscripts, EXEWebService, ficapp, ficweb, and ficdb by executing the command:

   ```
   chmod -R 775 *
   ```

6. 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 8.0.7.0.0 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.

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- Give EXECUTE permission to the utility using the command:

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

  For example, `chmod 751 unzip_aix`

7. Extract the contents of the 8.0.7.1.0 ML archive file using either of the following commands:

   ```
   unzip_<os> -a <name of the file to be unzipped>
   ```

   OR

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

   > **NOTE:** The above "`-a`" option is mandatory to unzip the archive file.
   > For example: For AIX operating system
   > ```
   > unzip_aix -a p27094265_80510_AIX64-5L.zip
   > ```

8. Update the configuration file `Params.conf` file before triggering the installation. The file `Params.conf` is available for LCR and DIC separately, in the paths: `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 `Params.conf` file:

   Model Upload Process: Input values required are 0/1

   - **1** indicates Trigger Model Upload

   - **0** indicates Skip Model upload process

   Note: If you select option 0 for Model upload, then before installation, execute the below scripts after replacing the ##INFODOM## with the infodom name:

   - infodom_patches_ofs_lrm_dic_sku.sql

     infodom_patches_ofs_lrm_dic_sku.sql

   - infodom_patches_ofs_lrm_lcr_sku.sql

     infodom_patches_ofs_lrm_lcr_sku.sql

   If the value is **1**, then next option is to choose the option of 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 Data Model name and the path of Data Model.

9. Give EXECUTE permission to the ML patch installer script. Navigate to the path OFS_LRS_PACK and execute the command:

   ```
   chmod 755 OFSAAIUpdate.sh
   ```

10. Execute the following command:

    ```
    ./OFSAAIUpdate.sh
    ```

11. Verify if the ML is applied successfully by checking the log files generated in the folders: `OFS_LRS_PACK/OFS_LRM_DIC/logs` and `OFS_LRS_PACK/OFS_LRM_LCR/logs`. You can ignore ORA-00001 and ORA-02292 in the log file. In case of any other errors, contact Oracle Support Services.

    > **NOTE:** See the Technology Matrix for a list of supported servers for OFS LRS 8.0.7.0.0.

12. Post successful installation of the ML, perform the following steps:

    - Clear the application cache. Navigate to the following path 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>

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

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/WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR/ WAR file, see the *Post Installation Configurations* section in the Oracle Financial Services Liquidity Risk Solution Installation Guide 8.0.7.0.0 on OHC Documentation Library.

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16. Restart all the OFSAAI services. For more information, see the *Starting/ Stop Infrastructure Services* section in the Oracle Financial Services Liquidity Risk Solution Installation Guide 8.0.7.0.0 on OHC Documentation Library.

1.3 Post-installation Requirements

- Execute the command:

```
INSERT INTO FSI_DEPOSIT_INSURANCE_DTLS
(F_OVER_FUNDING_FLAG,
N_ACCRUED_INTEREST_AMT,
N_ACCRUED_INTEREST_AMT_LCY,
N_ACCRUED_INTEREST_AMT_RCY,
N_AS_OF_DATE_SKEY,
N_BRANCH_SKEY,
N_EOP_BAL,
N_EOP_BAL_LCY,
N_EOP_BAL_RCY,
N_EOP_PRIN_BAL,
N_EOP_PRIN_BAL_LCY,
N_EOP_PRIN_BAL_RCY,
N_INSURED_ACCRUED_INT_AMT_RCY,
N_INSURED_EOP_PRIN_BAL_RCY,
N_OWNERSHIP_CATEGORY_SKEY,
N_BENEFICIARY_PARTY_SKEY,
N_PARTY_SKEY,
N_PERCENTAGE_SHARE,
N_RUN_SKEY,
N_INSURED_EOP_BAL_RCY,
N_UNINSRD_ACCRUED_INT_AMT_RCY,
N_UNINSURED_EOP_PRIN_BAL_RCY,
N_UNINSURED_EOP_BAL_RCY,
N_INS_DETRMINATION_STATUS_SKEY,
N_ENTITY_SKEY,
N_INS_PENDING_REASON_SKEY,
F_PRIMARY_CUSTOMER_FLAG,
F_CUST_NAME_ACCT_TITLE_FLAG,
N_BENF_STD_PARTY_TYPE_SKEY,
N_BENF_INS_PARTY_TYPE_SKEY,
N_STANDARD_PRODUCT_TYPE_SKEY,
N_INS_PARTY_TYPE_SKEY,
N_STANDARD_PARTY_TYPE_SKEY,
```

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```
F_ORC_RECLASS_FLAG,
F_DECEASED_IND,
F_NATIVE_AMERICAN_IND,
N_BENF_PARTY_TYPE_SKEY,
N_PARTY_TYPE_SKEY,
F_PASS_THROUGH_FLAG,
N_POOL_ID,
N_BROKER_INVOLVEMENT_SKEY,
F_CUST_FIDUCIARY_RELTN_FLAG,
F_DEATH_RECOG_FLAG,
F_ELIGIBLE_BENEFICIARY_FLAG,
N_LEB_MOD_ACCT_PARCPT_SHARE,
N_ORIG_PERCENTAGE_SHARE,
N_TRUST_ACCT_TYPE_SKEY,
N_TRUST_TREATMENT_SKEY,
F_GRANTOR_AS_BENF_FLAG,
N_ACCT_SKEY,
N_RELATED_ACCT_SKEY,
F_MULTIPLE_GRANTORS_FLAG,
F_GRANTOR_DEATH_RECOG_FLAG,
N_ORIG_UNINSURED_EOP_BAL_RCY,
N_ORIG_INSURED_EOP_BAL_RCY,
N_ACCT_PARTICIPANT_TYPE_SKEY,
F_BIA_CUST_FLAG,
F_BIA_BENF_FLAG,
N_ALLOC_TYPE_SKEY)
 (SELECT F_OVER_FUNDING_FLAG,
N_ACCRUED_INTEREST_AMT,
N_ACCRUED_INTEREST_AMT_LCY,
N_ACCRUED_INTEREST_AMT_RCY,
N_AS_OF_DATE_SKEY,
N_BRANCH_SKEY,
N_EOP_BAL,
N_EOP_BAL_LCY,
N_EOP_BAL_RCY,
N_EOP_PRIN_BAL,
N_EOP_PRIN_BAL_LCY,
N_EOP_PRIN_BAL_RCY,
N_INSURED_ACCRUED_INT_AMT_RCY,
N_INSURED_EOP_PRIN_BAL_RCY,
N_OWNERSHIP_CATEGORY_SKEY,
```

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```
N_BENEFICIARY_PARTY_SKEY,
N_PARTY_SKEY,
N_PERCENTAGE_SHARE,
N_RUN_SKEY,
N_INSURED_EOP_BAL_RCY,
N_UNINSRD_ACCRUED_INT_AMT_RCY,
N_UNINSURED_EOP_PRIN_BAL_RCY,
N_UNINSURED_EOP_BAL_RCY,
N_INS_DETRMINATION_STATUS_SKEY,
N_ENTITY_SKEY,
N_INS_PENDING_REASON_SKEY,
F_PRIMARY_CUSTOMER_FLAG,
F_CUST_NAME_ACCT_TITLE_FLAG,
N_BENF_STD_PARTY_TYPE_SKEY,
N_BENF_INS_PARTY_TYPE_SKEY,
N_STANDARD_PRODUCT_TYPE_SKEY,
N_INS_PARTY_TYPE_SKEY,
N_STANDARD_PARTY_TYPE_SKEY,
F_ORC_RECLASS_FLAG,
F_DECEASED_IND,
F_NATIVE_AMERICAN_IND,
N_BENF_PARTY_TYPE_SKEY,
N_PARTY_TYPE_SKEY,
F_PASS_THROUGH_FLAG,
N_POOL_ID,
N_BROKER_INVOLVEMENT_SKEY,
F_CUST_FIDUCIARY_RELTN_FLAG,
F_DEATH_RECOG_FLAG,
F_ELIGIBLE_BENEFICIARY_FLAG,
N_LEB_MOD_ACCT_PARCPT_SHARE,
N_ORIG_PERCENTAGE_SHARE,
N_TRUST_ACCT_TYPE_SKEY,
N_TRUST_TREATMENT_SKEY,
F_GRANTOR_AS_BENF_FLAG,
N_ACCT_SKEY,
N_RELATED_ACCT_SKEY,
F_MULTIPLE_GRANTORS_FLAG,
F_GRANTOR_DEATH_RECOG_FLAG,
N_ORIG_UNINSURED_EOP_BAL_RCY,
N_ORIG_INSURED_EOP_BAL_RCY,
N_ACCT_PARTICIPANT_TYPE_SKEY,
```

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```
F_BIA_CUST_FLAG,
F_BIA_BENF_FLAG,
NVL(N_ALLOC_TYPE_SKEY,-1)
FROM FSI_DEPOSIT_INSURANCE_DTLS_B)
```

Appendix A

Frequently Asked Questions

What checks does the 8.0.7.0.0 Release patch perform?

- Environment Check- As part of 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 OFSLRS support?

OFSAAI now supports ERwin version 9.64.

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