OFS Liquidity Risk Solution Pack

Installation Guide

Release 8.0.8.2.8

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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	June 2021	Created document to capture OFS LRS 8.0.8.2.0 Maintenance Level Release.
Version 2.0	July 2021	Updated section Pre-installation Requirements with pre- installation steps for upgrading from OFS LRS v8.0.8.1.0 to LRS v8.0.8.2.0
Version 3.0	September 2021	Added Post-Installation Requirements section
Version 4.0	October 2021	Renamed Post-Installation Requirements section to Additional Requirements section and added additional Data Model attributes for OFS LRS 8.0.8.2.3 patch.
Version 5.0	December 2021	Added the Additional Requirements section for the 8.0.8.2.4 patch and Data Model Attributes table for the 8.0.8.2.5 patch release.
Version 6.0	January 2022	Added the Additional Requirements section for the 8.0.8.2.6 patch release.
Version 7.0	April 2022	Added the Additional Requirements section for the 8.0.8.2.7 patch release.
Version 8.0	May 2022	Added the Additional Requirements section for the 8.0.8.2.8 patch release.

Executive Summary

This document includes the necessary instructions to apply the OFS LRS 8.0.8.2.0 Maintenance Level Release and perform the required post-install configurations. You can find the latest copy of this document in the <u>OHC Documentation Library</u> 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 8.0.8.2.0 Maintenance Level Release.

This chapter discusses the following topics:

- <u>Audience</u>
- <u>Recommended Environment</u>
- <u>Related Documents</u>
- <u>Conventions and Acronyms</u>

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 <u>My Oracle Support</u>. For information, visit <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info</u>

Or visit <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs</u> if you are hearing impaired.

1.3 Related Documents

See the following OFS Liquidity Risk Solution Applications Pack documents available in the <u>OHC</u> <u>Documentation Library</u>.

- Oracle Financial Services Liquidity Risk Measurement and Management User Guide Release 8.0.8.0.0
- OFS Liquidity Risk Measurement and Management Release 8.0.8.0.0 Analytics User Guide
- OFS Liquidity Risk Measurement and Management Release 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for Reserve Bank of India 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for US Federal Reserve 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for European Banking Authority 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for Bank of Thailand 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for Bank Negara Malaysia 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for Monetary Authority of Singapore 8.0.8.0.0 User Guide
- OFS Liquidity Risk Regulatory Calculations for Hong Kong Monetary Authority 8.0.8.0.0 User Guide
- Oracle Financial Services Analytical Applications Infrastructure User Guide (<u>OHC Documentation</u> <u>Library</u>)
- Oracle Financial Services Analytical Applications Infrastructure Installation Guide (<u>OHC</u> <u>Documentation Library</u>)

1.4 Conventions and Acronyms

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

Conventions	Description
Screen actions are indic	ated 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
онс	Oracle Help Center
AIX	Advanced Interactive eXecutive
RHEL	Red Hat Enterprise Linux
OEL	Oracle Enterprise Linux
OS	Operating System

Table 1: Conventions and Acronyms

Conventions	Description
EAR / WAR	Enterprise Archive or Web Archive
J2EE	Java 2 Enterprise Edition
ΟΤΝ	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 LRS Release 8.0.8.2.0

OFS LRS v8.0.8.2.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements since the previous Maintenance release v8.0.8.1.0.

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 <u>2724021.1</u> 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 v8.0.8.2.0 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 <u>My Oracle Support</u>. Download and install the one-off patch **32433104** (OFS AAI 8.0.8.4.0).
- Oracle Database Release 19c Client and Server configuration:
 - For a fresh install of OFS LRS v8.0.8.2.0 with Oracle Database Release 19c Client and Server, modify the VerInfo.txt file in the OFS_LRS_PACK/OFS_AAI/bin directory as follows:

```
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: <u>2699715.1</u>.
- The following pre-installation steps for upgrading from OFS LRS v8.0.8.0.0 to LRS v8.0.8.2.0 must be performed:
 - Log 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
```

- The following pre-installation steps for upgrading from OFS LRS v8.0.8.1.0 to LRS v8.0.8.2.0 must be performed:
 - Log 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_8081_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_8081_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')
/
```

```
UPDATE AAI_APP_B
SET V_VERSION = '8.0.8.0.0'
WHERE V_APP_ID IN ('OFS_LRM_LCR_HKMA')
/
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 **32949023** under the Patches & Updates tab.
- 2. Download the OFSAA 8.0.8.0.0 LRS ML RELEASE #2 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 Stopping Infrastructure Services section in the <u>Oracle Financial</u> <u>Services Liquidity Risk Solution Installation Guide 8.0.8.0.0</u>.

ATTENTIONOn 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

- **4.** Login to the OFSAA server as a non-root user and navigate to the SFIC HOME folder.
 - **5.** Assign WRITE permission to the file or 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 8.0.8.2.0 ML.
 - Uncompress the unzip installer file using the command:

uncompress unzip_<os>.Z

patch.

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>

- 7. Extract the contents of the 8.0.8.2.0 ML archive file using the following command: unzip <name of the file to be unzipped>
- 8. 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.

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

chmod 755 OFSAAIUpdate.sh

10. Execute the following install command:

./OFSAAIUpdate.sh

11. 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 <u>My Oracle Support</u>.

See the log files in the following locations, for OFS LRS Application Pack installation, as per the SKUs licensed.

Product	Installation Log Path	Debug Log Path
LCR	OFS_LRS_PACK/OFS_LRM_LCR/logs	OFS_LRS_PACK/OFS_LRM_LCR/logs
DIC	OFS_LRS_PACK/OFS_LRM_DIC/logs	OFS_LRS_PACK/OFS_LRM_DIC/logs

Table 2: OFS LRS Installation Log File Paths

INSTALLING THIS MAINTENANCE LEVEL RELEASE

Product	Installation Log Path	Debug Log Path
LCR-USFED	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_USFED/logs	
LCR-RBI	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_RBI/logs	
LCR-EBA	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_EBA/logs	
LCR-BOT	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_BOT/logs	
LCR-BNM	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_BNM/logs	
LCR-MAS	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_MAS/logs	
LCR-HKMA	OFS_LRS_PACK/OFS_LRM_LCR/OFS_LRM _LCR_HKMA/logs	
DIC-USFED	OFS_LRS_PACK/OFS_LRM_DIC/OFS_LRM _DIC_USFED/logs	
DIC-BNM	OFS_LRS_PACK/OFS_LRM_DIC/OFS_LRM _DIC_BNM/logs	
DIC-MAS	OFS_LRS_PACK/OFS_LRM_DIC/OFS_LRM _DIC_MAS/logs	
DIC-HKMA	OFS_LRS_PACK/OFS_LRM_DIC/OFS_LRM _DIC_HKMA/logs	

NOTE See the OFS Analytical Applications Technology Matrix for a list of supported servers for OFS LRS 8.0.8.0.0.
 OFS LRS 8.0.8.2.0 is not qualified on AIX Operating System.

- **12.** 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):

- NOTE OFS LRS Release v8.0.8.2 supports Oracle Business Intelligence 12C (12.2.1.4.0) installation. The OFS Liquidity Risk Regulatory Calculations for Hong Kong Monetary Authority (OFS LRRCHKMA) regulatory templates are available only in OBIEE 12C. See OBIEE Configuration Steps to Deploy OFS LRM Analytics section in Oracle Financial Services Liquidity Risk Solution Installation Guide Release 8.0.8.0.0 for details.
- Take a backup of deployed Liquidity_Risk_Management_Pack.rpd and HKMA LMR.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 <u>Oracle Financial Services Liquidity Risk Solution Installation</u> <u>Guide – Release 8.0.8.0.0.</u>
- Delete the existing EAR or WAR file available in the <code>\$FIC HOME/ficweb</code> directory.
- **13.** Add unmask 0027 in the .profile of the UNIX account which manages the 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 <u>Oracle Financial Services Liquidity Risk Solution</u> Installation Guide 8.0.8.0.0.
- Restart all the OFSAAI services.
 For more information, see the Starting Infrastructure Services section in the <u>Oracle Financial</u> <u>Services Liquidity Risk Solution Installation Guide 8.0.8.0.0</u>.

2.3 Additional Requirements

2.3.1 Additional requirements for 8.0.8.2.3 One-off patch

Ensure that you run the following steps for installing the OFS LRS 8.0.8.2.3 One-off patch.

• Log in to the Atomic Schema and execute the following Update statement:

```
UPDATE SETUP_MASTER
SET V_COMPONENT_VALUE = '3,7,8,9,16,18,20,21,23,24'
WHERE V_COMPONENT_CODE =
'CALC_USED_PORTION_PLCD_COLL_USING_MKT_VALUE'
/
COMMIT
/
```

• Add the following Data Model attributes:

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed ?	РК	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Bug ID	Remarks	Column Default Value (If Any)
DIM_PROG RAM_MAS TER	V_APPROVAL _AUTH_PART Y_ID	Approval Authority Party Identifier	VARCHA R2(50)	Code_Alpha numeric_Lo ng_Type3	Yes	No	No			This column stores the party identifie r of the authorit y who has provide d the progra m approva l.				
DIM_PROG RAM_MAS TER	D_APPROVA L_DATE	Approval Date	DATE	DATE	Yes	No	No			This column stores the approva I date of the progra m.				

2.3.2 Additional requirements for 8.0.8.2.4 One-off patch

Ensure that you add the following Data Model attributes for processing and results for OFS LRS 8.0.8.2.4 One-off patch.

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed?	РК	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Bug ID	Remarks	Column Default Value (If Any)
FSI_LRM_BR _CNTRY_SU MMARY_DTL S	N_CONSOL_L 1_AMT_RCY	Consolidat ed Level 1 Asset Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No				This column stores the amount of consolid ated level 1A asset amount in reportin g currenc y.		33 60 31 49		
FSI_LRM_BR _CNTRY_SU MMARY_DTL S	N_CONSOL_L 2A_AMT_RCY	Consolidat ed Level 2A Asset Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No				This column stores the amount of consolid ated		33 60 31 49		

Table 4: Data Model Attributes for 8.0.8.2.4 One-off patch

									1,66	 QUIREMENTS
								level 2A asset amount in reportin g currenc y.		
FSI_LRM_BR _CNTRY_SU MMARY_DTL S	N_CNSL_L2B_ RMBS_AMT_ RCY	Consolidat ed Level 2B Residentia I Mortgage Based Security Asset Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No		This column stores the amount of consolid ated level 2B resident ial mortga ge based securitie s asset amount in reportin g currenc y.	33 60 31 49	
FSI_LRM_ BR_CNTR Y_SUMM ARY_DTL S	N_CNSL_L2B_ NRMBS_AMT _RCY	Consolidat ed Level 2B Non Residentia 1 Mortgage Based Security Asset Amount In	NUMBER (22,3)	AMOUNT	Yes	No		This column stores the amount of consolid ated level 2B non	33 60 31 49	

-										
		Reporting Currency						resident ial mortga ge based securitie s asset amount in reportin g currenc y.		
FSI_LRM_BR _CNTRY_SU MMARY_DTL S	N_CONSOL_L 2B_AMT_RCY	Consolidat ed Level 2B Asset Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No		This column stores the amount of consolid ated level 2B asset amount in reportin g currenc y.	33 60 31 49	
FSI_FCAST_A LLOCATED_B ALANCES	N_BRANCH_S KEY	Branch Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes	No		This column stores the surrogat e key of the branch.	33 60 31 49	

			1		r					
FSI_LRM_RU N_PARAM	V_CONSOLIDAT ION_BASIS	Consolidati on Basis	VARCHA R2(30)	Text_Short_D escription	Yes	No		This column stores the consolida tion basis. If the Consolid ation type is Solo then the column stores the value as '1' for Hongkon g Basis and the value as '2' for Unconsol idated basis.	33 60 31 49	
FCT_FCAST _AGG_CAS H_FLOWS	N_BRANCH_S KEY	Branch Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes	No		This stores the surrogat e key of the branch.	33 60 31 49	
FCT_LRM_ RUN_PARA M	V_CONSOLID ATION_BASIS	Consolidat ion Basis	VARCHA R2(30)	Text_Short_ Description	Yes	No		This column stores the consolid ation basis. If the Consoli dation type is	33 60 31 49	

					Solo then the		
					column		
					stores		
					the		
					value as		
					'1' for		
					Hongko		
					ng Basis		
					and the		
					value as		
					'2' for		
					Uncons		
					olidated		
					basis.		

2.3.3 Additional Requirements for 8.0.8.2.5 One-off patch

Add the following Data Model attributes for 8.0.8.2.5 patch release.

Table 4: Data Model Attributes for 8.0.8.2.5 patch release

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed?	РК	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Bug ID	Remarks	Column Default Value (If Any)
STG_TRUS TS	D_VALUE_DA TE	VALUE DATE	DATE	DATE	Yes	No	No			This column stores the value date of the contract . Value date is the date on which the contract become s effectiv e.				

FSI_LRM_I NSTRUME NT	N_EOP_NET_ COLL_RCVD_ PST_HC_AMT	End Of Period Balance Net of Collateral Received Post Haircut Amount	NUMBER (22,3)	NUMBER	Yes	No	NO	This attribut e stores the End of Period Balance Net of Collater al Receive d Post Haricut Amount . The column is derived by the app.		
FSI_LRM_I NSTRUME NT	N_EOP_NET_ COLL_PLCD_ PST_HC_AMT	End Of Period Balance Net of Collateral Placed Post Haircut Amount	NUMBER (22,3)	NUMBER	Yes	No	No	This attribut e stores the End of Period Balance Net of Collater al Placed Post Haricut Amount . The column is derived by the app.	33 60 31 49	

											· · · · · · · · · · · · · · · · · · ·
FSI_LRM_A	F_ISSUER_BR	lssuer	CHAR(1)	FLAG	Yes	No		This	33	5	
SSETS	NCH_CCY_M	Branch	- ()	_				attribut	6		
55215	ATCH_FLAG	currency						e	31		
		Match						identifie	4		
		Flag						S		/	
		Tiag						whether			
								the			
								currenc			
								y of the			
								issuer			
								matches			
								the			
								currenc			
								y of any			
								branch			
								in the			
								given			
								Run. A			
								value of			
								'Y'			
								indicate			
								s that			
								the			
								issuer			
								currenc			
								y			
								y matches			
								the			
								currenc			
								y of any			
								one of			
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								branche			
								s within			
								the Run.			
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								classify			
								an asset			
								as a			
								high-			
								quality			
								quality			

							 liquid		
							asset.		
F_ISSUER_BRN CH_CCY_MATC H_FLAG	Issuer Branch currency Match Flag	CHAR(1)	FLAG	Yes	No			33 60 31 49	

									7 10 0 11	QUIREMENTS
								as a high- quality liquid asset.		
FCT_ACCOU NT_CASH_FL OWS	N_LMT_CASH FLOW_MAT_ BAND_SKEY	LMT Cashflow Maturity Band Surrogate Key	NUMBER (10)	SURROGATE KEY_LONG	Yes	No		This attribut e capture s the surrogat e key of the Liquidit y Monitori ng Tool (LMT) maturity buckets. It is derived from Cashflo w date.	33 60 31 49	
FCT_LRM_ ACCOUNT_ SUMMARY	N_EOP_NET_ COLL_RCVD_ PST_HC_AMT	End Of Period Balance Net of Collateral Received Post Haircut Amount	NUMBER (22,3)	NUMBER	Yes	No		This attribut e stores the End of Period Balance Net of Collater al Receive d Post Haricut Amount . The	33 60 31 49	

										-	QUIREMENTS
								column is derived by the app.			
FCT_LRM_ ACCOUNT_ SUMMARY	N_EOP_NET_ COLL_PLCD_ PST_HC_AMT	End Of Period Balance Net of Collateral Placed Post Haircut Amount	NUMBER (22,3)	NUMBER	Yes	No		This attribut e stores the End of Period Balance Net of Collater al Placed Post Haricut Amount . The column is derived by the app.	33 60 31 49		
FCT_LRM_ ACCOUNT_ SUMMARY	F_ISSUER_BR NCH_CCY_M ATCH_FLAG	Issuer Branch currency Match Flag	CHAR(1)	FLAG	Yes	No		This attribut e identifie s whether the currenc y of the issuer matches the currenc y of any branch	33 60 31 49		

									7 CD DH	QUIREMENTS
								in the given Run. A value of 'Y' indicate s that the issuer currenc y matches the currenc y of any one of the branche s within the Run. It is used to classify an asset as a high- quality liquid asset.		
FCT_LRM_ LE_SUMMA RY	N_CB_LIABILI TY_OFFSET_ AMT_RCY	Central Bank Liability Offset Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No		This column capture s the Liability Offset Amount of Central Bank.	33 66 35 53	

2.3.4 Additional Requirements for 8.0.8.2.6 One-off patch

Add the following Data Model attributes for 8.0.8.2.6 patch release.

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Rus ID	Remarks	Column Default Value (If Any)
FCT_LRM_A CCOUNT_SU MMARY	N_UNSETTLED_ AMOUNT	Unsettled Amount	NUMBER(22,3)	AMOUNT	Yes	No				This column captures the unsettle d amount of the security.		33 60 31 49		
FCT_LRM_A CCOUNT_SU MMARY	N_UNSETTLED_ AMOUNT_LCY	Unsettled Amount In Local Currency	NUMBER (22,3)	AMOUNT	Yes	No				This column capture s the unsettle d amount of the security in local currenc y.		33 60 31 49		

Table 5: Data Model Attributes for 8.0.8.2.6 patch release

				-						
FCT_LRM_A CCOUNT_SU MMARY	N_UNSETTLED_ AMOUNT_RCY	Unsettled Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No		This column capture s the unsettle d amount of the security in reportin g currenc y.	33 60 31 49	
FCT_ACCOU NT_CASH_FL OWS	N_UNENCUMB ERED_AMT_RC Y	Unencumb ered Amount In Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No		This column capture s the unencu mbered cashflo ws in reportin g currenc y. This column is derived by the applicati on.	33 60 31 49	
FCT_LRM_A CCOUNT_SU MMARY	N_COLL_ADJTD _GROSS_DER_I NFLOW	Collateral Adjusted Gross Derivative Inflows	NUMBER (22,3)	AMOUNT	Yes	No		This column stores the value of Gross derivati ves cash outflow	33 60 31 49	

								s amount adjuste d for corresp onding eligible collatera l. This column is derived by the app.		
FCT_LRM_A CCOUNT_SU MMARY	N_COLL_ADJTD _GROSS_DER_ OUTFLOW	Collateral Adjusted Gross Derivative Outflows	NUMBER (22,3)	AMOUNT	Yes	No		This column stores the value of Gross derivati ves cash inflows amount adjuste d for corresp onding eligible collatera I. This column is derived by the app.	33 60 31 49	

FCT_LRM_A CCOUNT_SU MMARY	N_CF_NET_OF_ MINIMUM_AM OUNT	Cash Flows net of minimum amount	NUMBER (22,3)	AMOUNT	Yes	No			This column stores the Cash Flows net of minimu m amount. This column is derived by the app.	33 60 31 49	
FCT_LRM_A CCOUNT_SU MMARY	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	NO		Stores the Custom er and Entity Country Match Flag. The flag is Y if the country of reportin g entity and the country of the custom er are same else it is N. List of Values	33 60 31 49	

									are Y and N.		
FCT_FCAST_	F_CUST_ENTIT	Customer		Flag	Voc	No	No		Stores	33	
ASSUMPT_A UDIT_TRAIL	Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	No		Stores the Custom er and Entity Country Match Flag. The flag is Y if the country of reportin g entity and the country of the custom er are same else it is N. List of Values are Y and N.	33 60 31 49	

FCT_FCAST_ AGG_CASH_ FLOWS	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	No		Stores the Custom er and Entity Country Match Flag. The flag is Y if the country of reportin g entity and the country of the custom er are same else it is N. List of Values are Y and N.	33 60 31 49	
FCT_BUSS_A SSUMPT_AU DIT_TRAIL	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	NO		Stores the Custom er and Entity Country Match Flag. The flag is Y if the country of reportin	33 60 31 49	

									g entity and the country of the custom er are same else it is N. List of Values are Y and N.		
FCT_AGG_C ASH_FLOWS	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	No		Stores the Custom er and Entity Country Match Flag. The flag is Y if the country of reportin g entity and the country of the custom er are same else it is N. List of Values are Y and N.	33 60 31 49	

FSI_LRM_INS TRUMENT	N_UNSETTLED_ AMOUNT_LCY	Unsettled Amount In Local Currency	NUMBER(22,3)	AMOUNT	Yes	No		This column captures the unsettle d amount of the security in local currency.	3: 6 3 4)	
FSI_LRM_INS TRUMENT	N_COLL_ADJTD _GROSS_DER_I NFLOW	Collateral Adjusted Gross Derivative Inflows	NUMBER(22,3)	AMOUNT	Yes	No		This column stores the value of Gross derivati ves cash outflow s amount adjuste d for corresp onding eligible collater al. This column is derived by the app.	3: 6 3 4)	

FSI_LRM_INS TRUMENT	N_COLL_ADJTD _GROSS_DER_ OUTFLOW	Collateral Adjusted Gross Derivative Outflows	NUMBER(22,3)	AMOUNT	Yes	No		This column stores the value of Gross derivati ves cash M_inflo ws amount adjuste d for corresp onding eligible collater al. This column is derived by the app.	33 60 31 49	
FSI_LRM_INS TRUMENT	N_CF_NET_OF_ MINIMUM_AM OUNT	Cash Flows net of minimum amount	NUMBER(22,3)	AMOUNT	Yes	No		This column stores the Cash Flows net of minimu m amount. This column is derived by the app.	33 60 31 49	

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FSI_LRM_INS TRUMENT	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	NO	Stores the Custome r and Entity Country Match Flag. The flag is Y if the country of reporting entity and the country of the customer are same else it is N. List of Values are Y and N.	33 60 31 49	
FSI_LRM_CO MPOSITE_KE Y_DIMS	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	No	Stores the Custome r and Entity Country Match Flag. The flag is Y if the country of reporting entity and the country of the customer are same else it is	33 60 31 49	

										7,01	QUIREMEN
									N. List of Values are Y and N.		
FSI_FCAST_A LLOCATED_B ALANCES	F_CUST_ENTIT Y_CNTRY_MAT CH_FLAG	Customer and Entity Country Match Flag	CHAR(1)	Flag	Yes	No	No		Stores the Custome r and Entity Country Match Flag. The flag is Y if the country of reporting entity and the country of the customer are same else it is N. List of Values are Y and N.	33 60 31 49	
STG_PLACED _COLLATERA L	N_UNSETTLE D_AMOUNT	Unsettled Amount	NUMBER (22,3)	AMOUNT	Yes	No	No		This column capture s the unsettle d amount of the security.	33 60 31 49	

											2011.211.211	
FCT_LRM ACCOUNT SUMMAR	_ ASSETS_LIAB	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not	33 72 41 43		
									yes for the records which			

												20112112111	
ASSU	BUSS_ JMPT_ T_TRA	F_OTH_ELIG_ ASSETS_LIAB _FLAG	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin	33 72 41 43		
										g lines in LCR. The flag will be yes for the records which are not capture d and No for other records. List of Values Y and N.			

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FCT_FCAST _AGG_CAS H_FLOWS	F_OTH_ELIG_ ASSETS_LIAB _FLAG	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not capture d by ony other reportin g lines in LCR. The flag will be yes for the records which are not capture d by ony other reportin g lines in LCR. The flag will be yes for the records which are not capture d ond No for other records.	3	i3 i2 i1 i3		
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-	FCT_AGG_ CASH_FLO WS	F_OTH_ELIG_ ASSETS_LIAB _FLAG	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not	33 72 41 43		
										yes for the records which			

FCT_FCAST _ASSUMPT _AUDIT_TR AIL	F_OTH_ELIG_ ASSETS_LIAB _FLAG	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the	33 72 41 43		
									d by any other reportin g lines in LCR. The flag will be yes for			
									records which are not capture d and No for other records. List of Values Y and N.			

	_LRM_I	F_OTH_ELIG_	Other	CHAR(1)	Flag	Yes	No	No		This		33	
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NT		_FLAG	Assets or							e is a		41	
			Liability							process		43	
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FSI_LRM_C OMPOSITE _KEY_DIMS	F_OTH_ELIG_ ASSETS_LIAB _FLAG	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which	33 72 41 43	
									g lines in LCR. The flag will be yes for the		
									are not capture d and No for other records. List of Values Y and N.		

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FSI_FCAST _ALLOCAT ED_BALAN CES	F_OTH_ELIG_ ASSETS_LIAB _FLAG	Other Eligible Assets or Liability Flag	CHAR(1)	Flag	Yes	No	No		This attribut e is a process specific attribut e for LRM process. It is used to identify asset/li ability records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not capture d by any other reportin g lines in LCR. The flag will be yes for the records which are not capture d and No for other	2	i3 i2 i1 i3		
									No for other records. List of Values Y and N.				

2.3.5 Additional Requirements for 8.0.8.2.7 One-off patch

Add the following Data Model attributes for 8.0.8.2.7 patch release.

Table 6: Data Model Attributes for 8.0.8.2.7 patch release

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Rije ID	Remarks	Column Default Value (If Any)
STG_LEASE S_CONTRA CTS	F_RENEWABL E_FLAG	Renewabl e Flag	CHAR(1)	Flag	Yes	No				This colu mn indic ates if the contr act can be rene wed. Rene wal, in case of lease s is the exten sion of the origi nal		33 98 44 22		

												QUIREMENTS
										lease s perio d whic h is appli cable in case of lease s that do not amor tize over time like inter est only lease s.		
FCT_LRM_ ACCOUNT_ SUMMARY	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade Surrogate key	NUMBER (10)	SurrogateKe y_Long	Yes	No	No n- Ide ntif yin g	DIM_CRE DIT_QUA LITY_GR ADE	N_CRED IT_QUA LITY_G RADE_S KEY	This colu mn store s the credi t quali ty grad e score skey.	33 99 03 22	
FCT_BUSS_ ASSUMPT_	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade	NUMBER (10)	SurrogateKe y_Long	Yes	No	No n- Ide	DIM_CRE DIT_QUA	N_CRED IT_QUA LITY_G	This colu mn	33 99	

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AUDIT_TRA IL		Surrogate key					ntif yin g	LITY_GR ADE	RADE_S KEY	store s the credi t quali ty grad e score skey.	03 22	
FCT_FCAST _AGG_CAS H_FLOWS	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade Surrogate key	NUMBER (10)	SurrogateKe y_Long	Yes	No	No n- Ide ntif yin g	DIM_CRE DIT_QUA LITY_GR ADE	N_CRED IT_QUA LITY_G RADE_S KEY	This colu mn store s the credi t quali ty grad e score skey.	33 99 03 22	
FCT_AGG_ CASH_FLO WS	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade Surrogate key	NUMBER (10)	SurrogateKe y_Long	Yes	No	No n- lde ntif yin g	DIM_CRE DIT_QUA LITY_GR ADE	N_CRED IT_QUA LITY_G RADE_S KEY	This colu mn store s the credi t quali ty grad e score skey.	33 99 03 22	
FCT_FCAST _ASSUMPT _AUDIT_TR AIL	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade	NUMBER (10)	SurrogateKe y_Long	Yes	No	No n- Ide ntif	DIM_CRE DIT_QUA LITY_GR ADE	N_CRED IT_QUA LITY_G	This colu mn store	33 99 03 22	

		Surrogate key					yin g	RADE_S KEY	s the credi t quali ty grad e score skey.		
FCT_LRM_ ACCOUNT_ SUMMARY	F_ACCT_BRA NCH_CCY_M ATCH_FLAG	Account and Branch Currency Match Flag	CHAR(1)	Flag	Yes	No	No n- Ide ntif yin g		This attrib ute ident ifies whet her the curre ncy of the acco unt matc hes the curre ncy of any bran ch in the given Run. A value of 'Y' indic ates that	33 99 03 22	

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FCT_BUSS_	F_ACCT_BRA	Account	CHAR(1)	Flag	Yes	No	No		This	33	
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FCT_FCAST _AGG_CAS H_FLOWS	F_ACCT_BRA NCH_CCY_M ATCH_FLAG	Account and Branch Currency Match Flag	CHAR(1)	Flag	Yes	No	No n- Ide ntif yin g		This attrib ute ident ifies whet her the curre ncy of the acco unt matc hes	33 99 03 22	

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FCT_AGG_ CASH_FLO WS	F_ACCT_BRA NCH_CCY_M ATCH_FLAG	Account and Branch Currency Match Flag	CHAR(1)	Flag	Yes	No	No n- Ide ntif yin g		This attrib ute ident ifies whet her the curre ncy of the acco unt matc hes the curre ncy of any bran ch in the given Run. A value of 'Y'	33 99 03 22	

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FCT_FCAST F_ACCT_BRA Account CHAR(1) Flag Yes No No This 33	
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FCT_LRM_ ACCOUNT_	F_ISS_BRANC H_CNTRY_M	Issuer Country	CHAR(1)	Flag	Yes	No	No n-		of any one of the bran ches withi n the Run. It is used to classi fy an asset as a high- quali ty liquid asset as per BOT guid eline s. This attrib	33 99	
FCT_LRM_ ACCOUNT_ SUMMARY	F_ISS_BRANC H_CNTRY_M ATCH_FLAG		CHAR(1)	Flag	Yes	No			BOT guid eline s. This	33 99 03 22	

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FCT_BUSS_ ASSUMPT_ AUDIT_TRA IL	F_ISS_BRANC H_CNTRY_M ATCH_FLAG	Issuer Country matches any of the branch country Flag	CHAR(1)	Flag	Yes	No	No n- lde ntif yin g		This attrib ute ident ifies whet her the coun try of the issue r matc hes the coun try of any bran ch in the given Run. A value of 'Y' indic	33 99 03 22	

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TI_FLOWS	ATCH_FLAG	matches								22	
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		branch					yin		ifies		
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FCT_AGG_	F_ISS_BRANC	lssuer	CHAR(1)	Flag	Yes	No	No		This	33	
CASH_FLO	H_CNTRY_M	Country		TING	165	NO	n-		attrib	99	
WS	ATCH_FLAG	matches					lde		ute	03	
VV.5	ATCH_FLAG	any of the					ntif		ident	22	
		branch					yin		ifies	22	
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		country					g		her		
		Flag									
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		It is	
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									high- quali ty liquid asset as per BOT guid eline s.		
FCT_FCAST _ASSUMPT _AUDIT_TR AIL	F_ISS_BRANC H_CNTRY_M ATCH_FLAG	Issuer Country matches any of the branch country Flag	CHAR(1)	Flag	Yes	No	No n- Ide ntif yin g		This attrib ute ident ifies whet her the coun try of the issue r matc hes the coun try of any bran ch in the given Run. A value of 'Y' indic ates that	33 99 03 22	

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STG_FX_C	N_PERCENT_	Percent	NUMBER	Rate_Long	Yes	No	No		This	33	
ONTRACTS	ENCUMBERE	Encumber	(30,11)						colu	97	
	D	ed							mn		

								store s the perce ntag e of secur ity encu mber ed in case of parti al encu mbra nce case.	21 34	
FSI_LRM_I NSTRUME NT	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade Surrogate key	NUMBER (10)	SurrogateKe y_Long	Yes	No		This colu mn store s the credi t quali ty grad e score skey.	33 99 03 22	
FSI_LRM_C OMPOSITE _KEY_DIMS	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade Surrogate key	NUMBER (10)	SurrogateKe y_Long	Yes	No		This colu mn store s the credi t quali ty grad	33 99 03 22	

										-	QUIREMENTS
								e score skey.			
FSI_FCAST _ALLOCAT ED_BALAN CES	N_CREDIT_Q UALITY_GRA DE_SKEY	Credit Quality Grade Surrogate key	NUMBER (10)	SurrogateKe y_Long	Yes	No		This colu mn store s the credi t quali ty grad e score skey.	33 99 03 22		
FSI_LRM_C OMPOSITE _KEY_DIMS	F_ACCT_BRA NCH_CCY_M ATCH_FLAG	Account and Branch Currency Match Flag	CHAR(1)	Flag	Yes	No		This attrib ute ident ifies whet her the curre ncy of the acco unt matc hes the curre ncy of any bran ch in the given	33 99 03 22		

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FSI_FCAST	F_ACCT_BRA	Account	CHAR(1)	Flag	Yes	No		This	33	
_ALLOCAT	NCH_CCY_M	and						attrib	99	
ED_BALAN	ATCH_FLAG	Branch						ute	03	
CES		Currency						ident	22	
		Match						ifies		
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FSI_LRM_C	F_ISS_BRANC	lssuer	CHAR(1)	Flag	Yes	No		This	33	
OMPOSITE	H_CNTRY_M	Country		100	105	110		attrib	99	
_KEY_DIMS	ATCH_FLAG	matches						ute	03	
	ATCH_FLAG							ident	22	
		any of the							22	
		branch						ifies		
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										 QUINEMENTS
FSI_FCAST	F_ISS_BRANC	Issuer	CHAR(1)	Flag	Yes	No		one of the bran ches withi n the Run. It is used to classi fy an asset as a high- quali ty liquid asset as per BOT guid eline s. This	33	
FSI_FCAST _ALLOCAT ED_BALAN CES	F_ISS_BRANC H_CNTRY_M ATCH_FLAG	Issuer Country matches any of the branch country Flag	CHAR(1)	Flag	Yes	No		BOT guid eline s.	33 99 03 22	

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										QUIREMENTS
								high- quali ty liquid asset as per BOT guid eline s.		
FSI_LRM_I NSTRUME NT	n_guarantee_ scheme_skey	Guarantee Scheme Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes	No		The sche me nam e unde r whic h a collat eral- free credi t is grant ed to the coun terpa rty. Dim_ Guar antee _Sch eme is the equiv alent dime nsion	33 98 43 99	

										QUIREMENTS
								table for this colu mn.		
FSI_LRM_A SSETS	n_guarantee_ scheme_skey	Guarantee Scheme Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes	No		The sche me nam e unde r whic h a collat eral-free credi t is grant ed to the coun terpa rty. Dim_ Guar antee _Sch eme is the equiv alent dime nsion table for this	33 98 43 99	

										QUIREMENTS
								colu mn.		
FSI_LRM_I NSTRUME NT	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99	
FSI_LRM_A SSETS	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99	

FSI_LRM_A	F_GSE_ELIGIB	Gse	CHAR(1)	Flag	Yes	No		The	33	
SSETS	LE_FLAG	Eligible						effec	98	
		Flag						t of	43	
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FCT_LRM_ ACCOUNT_ SUMMARY	n_guarantee_ scheme_skey	Guarantee Scheme Surrogate	NUMBER (10)	SurrogateKe y_Long	Yes	No		The sche me	33 98 43	
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FCT_LRM_ ACCOUNT_ SUMMARY	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99	
FCT_LRM_ ACCOUNT_ SUMMARY	F_GSE_ELIGIB LE_FLAG	Gse Eligible Flag	CHAR(1)	Flag	Yes	No		The effec t of the GSEs is to enha nce the avail abilit y and redu ce the cost of credi t to the targe ted borro wing secto	33 98 43 99	

										QUIREMENTS
								rs prim arily by redu cing the risk of capit al losse s to inves tors		
STG_ACCO UNT_BALA NCES	fic_mis_date	Fic Mis Date	DATE	DATE	No			This colu mn store s the date as on whic h the snap shot of sourc e data extra cted for proc essin g.	33 98 43 99	

	-		-	_						
STG_ACCO UNT_BALA NCES	n_acct_balanc e	Acct Balance	NUMBER (22,3)	AMOUNT	Yes			This colu mn store s the acco unt level balan ce of a given balan ce type.	33 98 43 99	
STG_ACCO UNT_BALA NCES	n_pct_eop_ba l	Pct Eop bal	NUMBER (11,6)	Rate	Yes			This colu mn store d the amo unt of the balan ce expr esse d as a perce ntag e of the EOP balan ce of the acco unt.	33 98 43 99	

STG_ACCO	v_account_nu	Account	VARCHA	Code_Alpha	No			This	33	
UNT_BALA	mber	Number	R2(50)	numeric_Lo	_			colu	98	
NCES				ng_Type3				mn	43	
								store	99	
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STG_ACCO UNT_BALA NCES	v_balance_su b_type	Balance Sub Type	VARCHA R2(20)	Code_Alpha numeric_Lo ng	Yes			This colu mn store s the sub type of balan ces for whic h balan ce has been provi	33 98 43 99	

								ded or com pute d. Exam ple Tran sacti onal Balan ce.		
STG_ACCO UNT_BALA NCES	v_balance_ty pe	Balacnce Type	VARCHA R2(20)	Code_Alpha numeric_Lo ng	No			This colu mn store s the type of balan ces for whic h balan ce has been provi ded or com pute d. EXAM ple EOP Princ ipal Balan ce,	33 98 43 99	

										 QUIREMENTS
								Defer red Curre ncy Balan ce, Accr ued Inter est etc.		
STG_ACCO UNT_BALA NCES	v_data_origin	Data Origin	VARCHA R2(20)	Code_Alpha numeric_Lo ng	Yes			This colu mn store s the sourc e syste m from wher e data is extra cted. Data can be sourc ed from multi ple sourc es, this colu mn will	33 98 43 99	

									7.0011	QUINEMENT
STG_ACCO UNT_BALA NCES	v_iso_currenc y_cd	Iso Currency Cd	VARCHA R2(3)	Code_Curre	Yes			store s the sourc e code from wher e the data is extra cted for this extra ction date. ISO curre ncy code s is a stand ard publi shed by the Inter natio nal Orga nizati on for Stan dardi zatio n	33 98 43 99	

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STG_ACCO	v_lv_code	Lv Code	VARCHA	Code_Alpha	No			This	33	
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NCES			. ,	ng				mn	43	
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STG_BALA NCE_TYPE_ MASTER	fic_mis_date	Fic Mis Date	DATE	DATE	No			This colu mn store s the date as on whic h the snap shot of sourc e data extra cted for proc essin g.	33 98 43 99	
STG_BALA NCE_TYPE_ MASTER	v_balance_ty pe	Balance Type	VARCHA R2(20)	Code_Alpha numeric_Lo ng	No			This colu mn store s the uniq ue list of balan ce types	33 98 43 99	

-									
STG_BALA NCE_TYPE_ MASTER	v_balance_ty pe_desc	Balance Type Desc	VARCHA R2(255)	DESCRIPTIO N	yes		This colu mn store s the descr iptio n of the balan ce type.	33 98 43 99	
STG_BALA NCE_TYPE_ MASTER	v_balance_ty pe_name	Balance Type Name	VARCHA R2(100)	ShortName	yes		This colu mn store s the nam e of the balan ce type.	33 98 43 99	
STG_BALA NCE_TYPE_ MASTER	v_data_origin	Data Origin	VARCHA R2(20)	Code_Alpha numeric_Lo ng	yes		This colu mn store s the sourc e syste m from wher e data is extra cted. Data can	33 98 43 99	

								be sourc ed from multi ple sourc es, this colu mn will store s the sourc e code from wher e the data is extra cted for this extra ction date.		
DIM_BALA NCE_TYPE	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	no			Balan ce type code s for stori ng the vario us types of	33 98 43 99	

								balan ces store d withi n GL.		
DIM_BALA NCE_TYPE	v_balance_ty pe	Balance Type	VARCHA R2(20)	Code_Alpha numeric_Lo ng	no			Store s balan ce types - ETL, Assig nme nt, Offse t etc. that classi fies recor ds creat ed durin g alloc ation proc ess.	33 98 43 99	
DIM_BALA NCE_TYPE	v_description	Descriptio n	VARCHA R2(255)	DESCRIPTIO N	yes			Desc riptio n of balan ce type.	33 98 43 99	

DIM_BALA NCE_TYPE	v_created_by	Created By	VARCHA R2(40)	Text_Mediu m_Descripti on_Type2	yes			User who creat ed the recor d.	33 98 43 99	
DIM_BALA NCE_TYPE	v_last_modifi ed_by	Last Modified By	VARCHA R2(30)	Text_Short_ Description	yes			User who last modi fied the recor d.	33 98 43 99	
DIM_BALA NCE_TYPE	d_last_modifi ed_date	Last Modified Date	DATE	DATE	yes			Date when the recor d was last modi fied.	33 98 43 99	
DIM_BALA NCE_TYPE	d_created_dat e	Created Date	DATE	DATE	yes			Date when the recor d was creat ed.	33 98 43 99	

DIM_BALA	fic_mis_date	Extraction	DATE	DATE	yes			This	33	
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DIM_BALA NCE_TYPE	d_record_star t_date	Record Start Date	DATE	DATE	yes			This colu mn store s the date from whic h the recor d is valid.	33 98 43 99	
DIM_BALA NCE_TYPE	d_record_end _date	Record End Date	DATE	DATE	yes			This colu mn store s the date till whic h the recor d is valid.	33 98 43 99	
DIM_BALA NCE_TYPE	v_balance_ty pe_name	Balance Type Name	VARCHA R2(100)	ShortName	yes			This colu mn store s the nam e of the balan ce type.	33 98 43 99	

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DIM_BALA	v_data_origin	Data	VARCHA	Code_Alpha	yes			This	33	
NCE_TYPE		Origin	R2(20)	numeric_Lo				colu	98	
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Fct_Accoun t_Balances	n_acct_balanc e	Account Balance	NUMBER (22,3)	AMOUNT	Yes			This colu mn store s the acco unt level balan ce of a given balan ce type.	33 98 43 99		
Fct_Accoun t_Balances	n_acct_skey	Account Surrogate Key	NUMBER (15)	SurrogateKe y_Long_Typ e2	No			Uniq ue surro gate key for each of the acco unt num ber.	33 98 43 99		

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Fct_Accoun t_Balances	n_balance_ty pe_skey	Balance Type Surrogate Key	NUMBER (10)	SurrogateKe y_Long	No			Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99	
Fct_Accoun t_Balances	n_data_sourc e_cd	Data Source Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes			This colu mn store s the sourc e syste m from wher e data is extra cted. Data can be sourc ed from multi ple sourc	33 98 43 99	

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								es, this colu mn will store s the sourc e code from wher e the data is extra cted for this extra ction date.		
Fct_Accoun t_Balances	n_entity_skey	Legal Entity Surrogate Key	NUMBER (10)	SurrogateKe y_Long	No			This is a deriv ed colu mn using Cust omer Refer ence Code and Orga nizati on Struc ture Dime	33 98 43 99	

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Fct_Accoun t_Balances	n_mis_date_s key	Extraction Date Surrogate Key	NUMBER (10)	SurrogateKe y_Long	No			nsion . This colu mn store s Legal Entit y Surro gate Key if the custo mer is an inter nal custo mer for the given acco unt and is a valid legal Entit y. This attrib ute store s the	33 98 43 99	
		Surrogate						ute store	43	

								spon ding to MIS date.		
Fct_Accoun t_Balances	n_pct_eop_ba l	Percentag e Of End Of Period Balance	NUMBER (11,6)	Rate	Yes			This colu mn store d the amo unt of the balan ce expr esse d as a perce ntag e of the EOP balan ce of the acco unt.	33 98 43 99	
Fct_Accoun t_Balances	v_balance_su b_type	Balance Sub Type	VARCHA R2(20)	Code_Alpha numeric_Lo ng	Yes			This colu mn store s the sub type	33 98 43 99	

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Fct_Accoun t_Balances	v_iso_currenc y_cd	lso Currency Code	VARCHA R2(3)	Code_Curre ncy	Yes		ISO curre ncy code s is a stand ard publi shed by the Inter natio nal Orga nizati on for	33 98 43 99	

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								Guar antee _Sch eme is the equiv alent dime nsion table for this colu mn.		
FCT_AGG_ CASH_FLO WS	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99	
FCT_FCAST _AGG_CAS H_FLOWS	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types	33 98 43 99	

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								of balan ces store d.			
FCT_BUSS_ ASSUMPT_ AUDIT_TRA IL	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99		
FCT_FCAST _ASSUMPT _AUDIT_TR AIL	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99		

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FSI_LRM_C OMPOSITE _KEY_DIMS	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99		
FSI_FCAST _ALLOCAT ED_BALAN CES	n_balance_ty pe_cd	Balance Type Code	NUMBER (5)	CODE	Yes	No		Balan ce type code s for stori ng the vario us types of balan ces store d.	33 98 43 99		
FCT_AGG_ CASH_FLO WS	F_GSE_ELIGIB LE_FLAG	Gse Eligible Flag	CHAR(1)	Flag	Yes	No		The effec t of the GSEs is to enha nce the	33 98 43 99		

								avail abilit y and redu ce the cost of credi t to the targe ted borro wing secto rs prim arily by redu cing the risk of capit al losse s to inves tors		
FCT_FCAST _AGG_CAS H_FLOWS	F_GSE_ELIGIB LE_FLAG	Gse Eligible Flag	CHAR(1)	Flag	Yes	No		The effec t of the GSEs is to enha nce the avail	33 98 43 99	

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								abilit y and redu ce the cost of credi t to the targe ted borro wing secto rs prim arily by redu cing the risk of capit al losse s to inves tors			
FCT_BUSS_ ASSUMPT_ AUDIT_TRA IL	F_GSE_ELIGIB LE_FLAG	Gse Eligible Flag	CHAR(1)	Flag	Yes	No		The effec t of the GSEs is to enha nce the avail abilit	33 98 43 99		

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								y and redu ce the cost of credi t to the targe ted borro wing secto rs prim arily by redu cing the risk of capit al losse s to inves tors			
FCT_FCAST _ASSUMPT _AUDIT_TR AIL	F_GSE_ELIGIB LE_FLAG	Gse Eligible Flag	CHAR(1)	Flag	Yes	No		The effec t of the GSEs is to enha nce the avail abilit y and	33 98 43 99		

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FSI_LRM_C	F_GSE_ELIGIB	Gse	CHAR(1)	Flag	Yes	No		The	33	
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FSI_FCAST _ALLOCAT ED_BALAN CES	F_GSE_ELIGIB LE_FLAG	Gse Eligible Flag	CHAR(1)	Flag	Yes	No		The effec t of the GSEs is to enha nce the avail abilit y and redu ce	33 98 43 99	

fsi_lrm_bus iness_dime nsions	v_flag_code	Flag Code	VARCHA R2(20)	Code_Alpha numeric_Lo ng	Yes	No	No		the cost of credi t to the targe ted borro wing secto rs prim arily by redu cing the risk of capit al losse s to inves tors This attrib ute store s the value	33 60 31 49	

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2.3.6 Additional Requirements for 8.0.8.2.8 One-off patch

2.3.6.1 Add Data Model Attributes for 8.0.8.2.8 patch release

Add the following Data Model attributes for 8.0.8.2.8 patch release.

Table 6: Addition of Data Model Attributes for 8.0.8.2.8 patch release

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed?	РК	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Rus ID	Remarks	Column Default Value (If Any)
STG_BILLS _CONTRAC TS	N_NUMBER_ OF_BILLS_DU E	Number Of Bills Due	NUMBER (10)	Number_Me dium	Yes	No	No			This attrib ute indic ates the num ber of bills that are over due. For HKM A, if the num ber of bills that is		34 05 12 73		

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stg_borrowi ngs	v_liquidity_cla ss_cd	Liquidity Class Code	VARCHA R2(5)	Code_Alpha numeric_Sh ort	Yes	No		Uniq ue ident ifier of liquid ity class code. Liqui dity is defin ed as the degr	34 04 59 80	

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stg_borrowi ngs	n_percent_en cumbered	Encumbra nce Percentag e	NUMBER (30,11)	Rate_Long	Yes	No		This colu mn store s the perce ntag e of secur ity encu mber ed in case of parti al encu mbra nce case.	34 04 59 80	
FSI_LRM_P ASSTHRU_ REP_DATA	FIC_MIS_DAT E	MIS Date	DATE	DATE	No	Yes		This colu mn store s the	34 12 33 47	

										QUIREMENTS
								As of Date		
FSI_LRM_P ASSTHRU_ REP_DATA	N_MATURITY _BAND_CD	Maturity Band Code	Number_ Short	NUMBER(5)	No	Yes		This colu mn store s the matu rity Band Code . List of value s are Next day= 2, 2 to 7 days =3, 8 days to 1 mont h=4, > 1 mont h=4, > 1 mont hs=5, > 3 mont hs=5, > 3 mont hs=6, > 6 mont hs=6, > 6 mont hs up	34 12 33 47	-1

								to 1 year =7, > 1 year up to 2 years =8, > 2 years up to 3 years =9, > 3 years up to 5 years =10, Over 5 years =11, Balan cing Amo unt=1 2,MIS SING =-1		
FSI_LRM_P ASSTHRU_ REP_DATA	N_AMOUNT_ RCY	Reporting Amount in Reporting Currency	AMOUNT	NUMBER(22, 3)	Yes	No		This colu mn store s the repor ting amo unt	34 12 33 47	

										QUIREMENTS
								in repor ting curre ncy		
FSI_LRM_P ASSTHRU_ REP_DATA	N_REP_LINE_ CD	Reporting Line Code	Number	NUMBER (22)	No	Yes		This colu mn store s the Liqui dity Risk Man age ment Repo rting Line Code or num ber. Refer ence table is fsi_lr m_re p_lin e_att r_det ails.	34 12 33 47	
FSI_LRM_P ASSTHRU_ REP_DATA	V_ENTITY_C ODE	Entity Code	Code_Alp hanumeri c_Long	VARCHAR2(20)	No	Yes		This colu mn store s the entit y code	34 12 33 47	

									of the repor ting instit ution s.		
FSI_LRM_P ASSTHRU_ REP_DATA	V_CCY_CODE	Currency Code	Code_Cu rrency	VARCHAR2(3)	Yes	No			This colu mn store s the curre ncy code.	34 12 33 47	
FSI_LRM_P ASSTHRU_ REP_DATA	N_PERCENT	Reporting Weight	NUMBER _FACTOR	NUMBER (11,6)	Yes	No			This colu mn store s the repor ting weig ht or facto r or perce ntag e.	34 12 33 47	
FSI_LRM_I NSTRUME NT	N_NUMBER_ OF_BILLS_DU E	Number Of Bills Due	NUMBER (10)	Number_Me dium	Yes	No	No		This attrib utes indic ates the num ber of bills that	34 05 12 73	

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FSI_LRM_I NSTRUME NT	N_OVERDUE_ PRIN_AMT	Overdue Principal Amount	NUMBER (22,3)	AMOUNT	Yes	No	No		This colu mn store s the over due princi pal amo unt of the acco unt. A instal lmen t has got two com pone nts princi pal acco unt. A instal lmen t has got two com pone nts princi pal acco unt. A instal lmen t has got two com princi pal acco unt. A instal lmen t has got two com princi pal acco unt. A instal lmen t has got two com princi pal acco unt. A instal lmen t s princi pal acco unt. A instal lmen t s s princi instal instal instal s princi o com princi acco unt. A instal instal instal instal instal s princi i s acco unt. A instal	34 05 12 73	

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FSI_LRM_I NSTRUME NT	N_OVERDUE_ PRIN_AMT_R CY	Overdue Principal Amount in Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No	No		This colu mn store s the over due princi pal amo unt of the acco unt in repor ting curre ncy A instal Imen t has got two com	34 05 12 73		

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FSI_LRM_I	N_INSTAL_PR	Installmen		AMOUNT	res	INO	INO			54 05	
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fsi_lrm_inst rument	F_MOST_LIQ UID_CLASS_A SSET_FLAG	Most Liquid Class Asset Flag	CHAR (1)	Flag	Yes	No	NO		Liqui dity by defin ition is the degr ee to whic h an asset or secur ity can	34 04 59 80	

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								The value 'Y' indic ates the asset s are of class Most Liqui d and a value 'N' indic ates other wise. This colu mn will be popu lated by the app.		
FSI_LRM_I NSTRUME NT	F_CUSTOME R_HK_FLAG	Customer HK Flag	CHAR (1)	Flag	Yes	No		This colu mn store s the flag to ident ify if custo mer	34 06 59 71	

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								of the acco unt is "HK" or not. This is used in HKM A Liqui dity Moni torin g Tools Unen cum bere d Inter bank Place		
FSI_LRM_I NSTRUME NT	N_PROPERTY _COUNTRY_S KEY	Property Country Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes	No		Place ment s. This colu mn store s the surro gate key for the for coun try	34 06 59 71	

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								As of Date			
FCT_LRM_ PASSTHRU _REP_DAT A	N_MATURITY _BAND_SKEY	Maturity Band Surrogate Key	NUMBER (10)	SurrogateKe y_Long	No	Yes		This colu mn store s the matu rity Band	34 12 33 47		
FCT_LRM_ PASSTHRU _REP_DAT A	N_AMOUNT_ RCY	Reporting Amount in Reporting Currency	NUMBER (22,3)	AMOUNT	Yes	No		This colu mn store s the repor ting amo unt.	34 12 33 47		
FCT_LRM_ PASSTHRU _REP_DAT A	N_REP_LINE_ SKEY	Reporting Line Surrogate Key	NUMBER (10)	SurrogateKe y_Long	No	Yes		This colu mn store s the Liqui dity Risk Man age ment Repo rting Line num ber.	34 12 33 47		

FCT_LRM_ PASSTHRU _REP_DAT A	N_ENTITY_SK EY	Entity Surrogate Key	NUMBER (10)	SurrogateKe y_Long	No	Yes	This colu mn store s the entit y surro gate key.	34 12 33 47	
FCT_LRM_ PASSTHRU _REP_DAT A	V_CCY_CODE	Currency Code	VARCHA R2(3)	Code_Curre ncy	Yes	No	This colu mn store s the curre ncy code.	34 12 33 47	
FCT_LRM_ PASSTHRU _REP_DAT A	N_PERCENT	Reporting Weight	NUMBER (11,6)	NUMBER_F ACTOR	Yes	No	This colu mn store s the repor ting weig ht or facto r or perce ntag e.	34 12 33 47	
FCT_LRM_ PASSTHRU _REP_DAT A	N_RUN_SKEY	Run surrogate Key	NUMBER (10)	SurrogateKe y_Long	No	Yes	This colu mn store s the run surro	34 12 33 47	

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									gate key			
FCT_LRM_ PASSTHRU _REP_DAT A	N_RELATED_ REP_LINE_SK EY	Related Reporting Line Surrogate Key	NUMBER (10)	SurrogateKe y_Long	Yes	No			This colu mn store s the Liqui dity Risk Man age ment Repo rting Line num ber relat ed to Repo rting Line num ber relat ed to Repo rting Line relat ed to Repo rting Line num ber relat ed to Repo rting Line num ber relat ed to Repo rting Line num ber relat ed to Repo rting Line num ber relat ed to Repo rting Line num ber relat ed to Repo rting Line Repo rting Line Repo rting Line Repo rting Line Repo rting Line Repo rting Line Repo rting Line Repo rting Line Repo Repo Repo Repo Repo Repo Repo Rep	34 12 33 47		
STG_REPO _CONTRAC TS	N_PERCENT_ ENCUMBERE D	Percent Encumber ed	NUMBER (30,11)	Rate_Long	Yes	No	No		This colu mn store s the perce ntag e of secur ity encu	33 97 21 34		

ADDITIONAL REQUIREMENTS

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2.3.6.2 Delete Data Model Attributes for 8.0.8.2.8 patch release

Delete the following Data Model attributes for 8.0.8.2.8 patch release.

Physical Table Name	Column Name	Logical Name	Data Type	Domain	Null Allowed?	PK	FK	Reference Table Name	Reference Column Name	Column Comments	Old Column Name	Rue ID	Remarks	Column Default Value (If Any)
STG_REPO _CONTRAC TS	N_PERCENT_ ENCUMBERE D	Percent Encumber ed	NUMBER (30,11)	Rate_Long	Yes	No	No			This colu mn store s the perce ntag e of secur ity encu mber ed in		33 97 21 34		

 Table 7: Deletion of Data Model Attributes for 8.0.8.2.8 patch release

ADDITIONAL REQUIREMENTS

					case		
					of		
					parti		
					al		
					encu		
					mbra		
					nce		
					case.		

2.3.6.3 Modification of DM Attributes for 8.0.8.2.8

Execute the below script in atomic schema:

ALTER TABLE FCT_LRM_LE_SUMMARY

MODIFY (n_avl_stable_funding_amt_rcy NUMBER (25,6),

n_req_stable_funding_amt_rcy NUMBER (25,6),

n_avl_stable_funding_amt_lcy NUMBER (25,6),

n_req_stable_funding_amt_lcy NUMBER (25,6))

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 OFSAAI Services (Infrastructure Server, ICC Server, and back-end services).

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

Which version of Erwin Data Modeler does OFS LRS support?

OFS LRS supports the Erwin version 9.7.

OFSAA Support

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

Send Us Your Comments

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

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

Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site that has all the revised/recently released documents.

