Oracle® Banking Liquidity Management

Pre-Installation Guide

Release 14.6.1.0.0
F60983-01
August 2022

ORACLE

Oracle Banking Liquidity Management Pre-Installation Guide, Release 14.6.1.0.0

F60983-01

Copyright © 2018, 2022, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government’s use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle, Java, and MySQL are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

1 Installation Process

1.1 Oracle Banking Microservices Architecture Installation 1-2
1.2 SMS Installation 1-3
1.3 Common Core Installation 1-3
1.4 File Upload Setup 1-4

A Annexure

Index

Preface

Purpose

This guide describes the order (sequence) in which the user must proceed with the installation process.

Audience

This guide is intended for WebLogic admin or ops-web team who are responsible for installing the OFSS banking products.

Acronyms and Abbreviations

The list of the acronyms and abbreviations that you are likely to find in the guide are as follows:

Table 1 Acronyms and Abbreviations

Acronyms	Abbreviations
LDAP	Lightweight Directory Access Protocol
OSDC	Oracle Software Delivery Cloud
SMS	Security Management System

List of Topics

This guide is organized as follows:

Table 2 List of Topics

Topics	Description
Installation Process	This topic provides the information about the installation sequence of all the services in Oracle Banking Liquidity Management.
Annexure	This topic provides the information about the property values.

Related Documents

The related documents are as follows:

- **ANNEXURE-1 (for LDAP Setup)**

1 Installation Process

This topic describes the installation sequence for Oracle Banking Liquidity Management application.

Execution order of Installation Manual

Oracle Banking Liquidity Management installation is executed in the below sequence:

- *Oracle Banking Microservices Platform Foundation Installation Guide*
- *Security Management System Services Installation Guide*
- *Common Core Services Installation Guide*
- *Oracle Banking Liquidity Management Installation Guide*

Prerequisite

The OSDC package consists of the six zip files. Before proceeding with the installation, unzip the files into the same common folder.

- OBLM_{release number}_Part1.zip
- OBLM_{release number}_Part2.zip
- OBLM_{release number}_Part3.zip
- OBLM_{release number}_Part4.zip
- OBLM_{release number}_Part5.zip
- OBLM_{release number}_Part6.zip

> **Note:**
>
> For the release number, refer to the OSDC file available as a part of the release.

Software Prerequisite List

The list of software prerequisites are as follows:

- Oracle Database Enterprise Edition
- Oracle WebLogic Server Standard Edition
- LDAP server
- Apache Kafka
- Apache ZooKeeper
- Conductor server

> **Note:**
>
> For the software version details, refer to **Release Notes**.

The common services required by Oracle Banking Liquidity Management application are listed below.

- Oracle Banking Microservices Architecture Installation
- SMS Installation
- Common Core Installation
- File Upload Setup

1.1 Oracle Banking Microservices Architecture Installation

List of Services

The lists of Oracle Banking Microservices Architecture Services to be installed for Oracle Banking Liquidity Management. Deployments to be done in the same order.

> **Note:**
>
> Conductor-server should be deployed prior to plato-orch-service.

- plato-config-service
- plato-discovery-service
- plato-api-gateway
- plato-ui-config-service
- plato-batch-server
- plato-feed-services
- plato-orch-service
- plato-report-services

> **Note:**
>
> For further details on deployments, refer to **Oracle Banking Microservices Platform Foundation Installation Guide**.

Domain Configuration

Copy the below files from the OSDC path to Oracle Banking Mircoservices Architecture <domain>/bin folder.

- pre_deployment_setup\setUserOverrides.sh

> **Note:**
>
> For providing the property values, refer to **Annexure** section of this document.

1.2 SMS Installation

List of Services

The lists of Security Management System Service to be installed for Oracle Banking Liquidity Management.

- SMS-CORE-SERVICES

Domain Configuration

Copy the below files from the OSDC path to `<domain>/bin` folder.

- pre_deployment_setup\setUserOverrides.sh

> **Note:**
>
> For further details on deployments, refer to **Security Management System Service Installation Guide** for installing Security Management System Service

1.3 Common Core Installation

List of Services

The lists of Common Core Services to be installed for Oracle Banking Liquidity Management.

- cmc-account-services
- cmc-base-services
- cmc-branch-services
- cmc-businessoverrides-services
- cmc-charges-calculation-services
- cmc-currency-services
- cmc-datasegment-services
- cmc-customer-services
- cmc-external-chart-account
- cmc-external-system-services
- cmc-external-virtual-account-services
- cmc-obrh-services
- cmc-resourceclass-services
- cmc-resource-segment-orchestrator-service

- cmc-screenclass-services
- cmc-settlements-services
- cmc-txn-code-services

Domain Configuration

Copy the below files from the OSDC path to `<domain>/bin` folder.

- pre_deployment_setup\setUserOverrides.sh

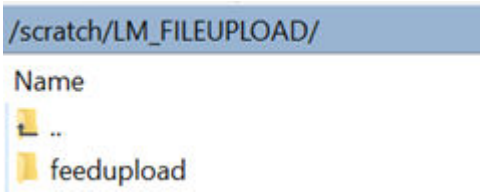
> **Note:**
>
> For further details on deployments, refer to **Common Core Service Installation Guide** for installing the Common Core services.

1.4 File Upload Setup

The folders are to be created with application user for file uplod to work.

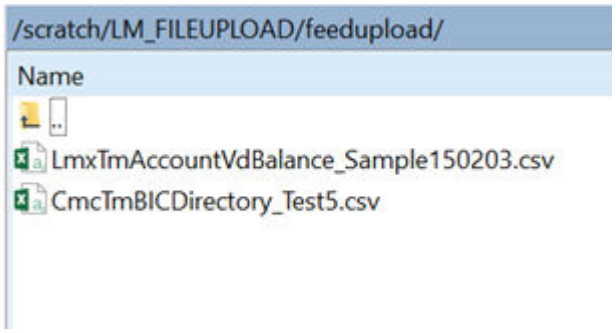
1. Feed Upload Folder
   - Create LM_FILEUPLOAD under /scratch folder
   - Create a Folder (ex: - feedUpload) under /LM_FILEUPLOAD folder
   - Create all sub folders as in the screen shot and all Sub folders should have full access.

Figure 1-1 File Upload



Place the files to be uploaded under this folder.

Figure 1-2 Feed upload



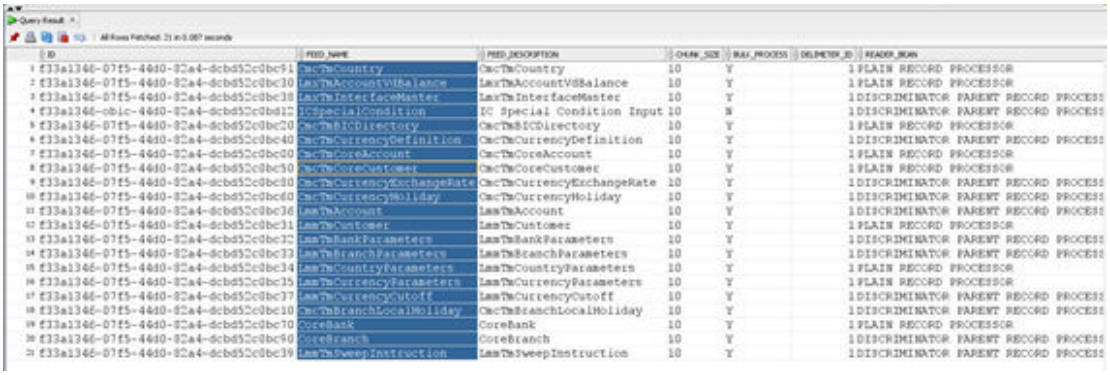
Make sure the Properties table has the below value inserted based on the path configured for Feed upload.

Figure 1-3 Properties Table

	ID	APPLICATION	PROFILE	LABEL	KEY	VALUE
1	124	plato-feed-services	jdbc	jdbc	feed.upload.directory	/scratch/LM FILEUPLOAD/feedupload

For the entries present under the “feed_name” column in plato_tm_feed table as shown below, the entries in plato_tm_feed_processor_headers should be updated with the appropriate branch code and user id.

Figure 1-4 PLATO_TM_FEED Table



	ID	FEED_NAME	FEED_DESCRIPTION	CHUNK_SIZE	BULK_PROCESS	DELIMETER_ID	HEADER_BEAN
1	f33a1346-07f5-44d0-82a4-dcbd52c0bc91	CmcTmCountry	CmcTmCountry	10	Y		1PLAIN RECORD PROCESSOR
2	f33a1346-07f5-44d0-82a4-dcbd52c0bc30	LmxTmAccountVdBalance	LmxTmAccountVdBalance	10	Y		1PLAIN RECORD PROCESSOR
3	f33a1346-07f5-44d0-82a4-dcbd52c0bc38	LmxTmInterfaceMaster	LmxTmInterfaceMaster	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
4	f33a1346-c0ic-44d0-82a4-dcbd52c0bd12	ICSpecialCondition	IC Special Condition Input	10	N		1DISCRIMINATOR PARENT RECORD PROCESS
5	f33a1346-07f5-44d0-82a4-dcbd52c0bc20	CmcTmBICDirectory	CmcTmBICDirectory	10	Y		1PLAIN RECORD PROCESSOR
6	f33a1346-07f5-44d0-82a4-dcbd52c0bc40	CmcTmCurrencyDefinition	CmcTmCurrencyDefinition	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
7	f33a1346-07f5-44d0-82a4-dcbd52c0bc00	CmcTmCoreAccount	CmcTmCoreAccount	10	Y		1PLAIN RECORD PROCESSOR
8	f33a1346-07f5-44d0-82a4-dcbd52c0bc50	CmcTmCoreCustomer	CmcTmCoreCustomer	10	Y		1PLAIN RECORD PROCESSOR
9	f33a1346-07f5-44d0-82a4-dcbd52c0bc80	CmcTmCurrencyExchangeRate	CmcTmCurrencyExchangeRate	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
10	f33a1346-07f5-44d0-82a4-dcbd52c0bc60	CmcTmCurrencyHoliday	CmcTmCurrencyHoliday	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
11	f33a1346-07f5-44d0-82a4-dcbd52c0bc36	LamTmAccount	LamTmAccount	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
12	f33a1346-07f5-44d0-82a4-dcbd52c0bc31	LamTmCustomer	LamTmCustomer	10	Y		1PLAIN RECORD PROCESSOR
13	f33a1346-07f5-44d0-82a4-dcbd52c0bc32	LamTmBankParameters	LamTmBankParameters	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
14	f33a1346-07f5-44d0-82a4-dcbd52c0bc33	LamTmBranchParameters	LamTmBranchParameters	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
15	f33a1346-07f5-44d0-82a4-dcbd52c0bc34	LamTmCountryParameters	LamTmCountryParameters	10	Y		1PLAIN RECORD PROCESSOR
16	f33a1346-07f5-44d0-82a4-dcbd52c0bc35	LamTmCurrencyParameters	LamTmCurrencyParameters	10	Y		1PLAIN RECORD PROCESSOR
17	f33a1346-07f5-44d0-82a4-dcbd52c0bc37	LamTmCurrencyCutoff	LamTmCurrencyCutoff	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
18	f33a1346-07f5-44d0-82a4-dcbd52c0bc10	CmcTmBranchLocalHoliday	CmcTmBranchLocalHoliday	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
19	f33a1346-07f5-44d0-82a4-dcbd52c0bc70	CoreBank	CoreBank	10	Y		1PLAIN RECORD PROCESSOR
20	f33a1346-07f5-44d0-82a4-dcbd52c0bc90	CoreBranch	CoreBranch	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS
21	f33a1346-07f5-44d0-82a4-dcbd52c0bc39	LamTmSweepInstruction	LamTmSweepInstruction	10	Y		1DISCRIMINATOR PARENT RECORD PROCESS

Figure 1-5 PLATO_TM_FEED_PROCESSOR_HEADERS Table

	ID	PLATO_TM_FEED_ID	HEADER_KEY	HEADER_VALUE
1	a33a1346-07f5-44d0-82a4-acbd12c0bc31	f33a1346-07f5-44d0-82a4-dcbd52c0bc91	appId	CMNCORE
2	a33a1346-07f5-44d0-82a4-acbd12c0bc32	f33a1346-07f5-44d0-82a4-dcbd52c0bc91	userId	LMADMIN2
3	a33a1346-07f5-44d0-82a4-acbd12c0bc33	f33a1346-07f5-44d0-82a4-dcbd52c0bc91	branchCode	LMB

A
Annexure

Plato

The below properties have fixed values and should not be changed.

Table A-1 Plato - Property Values (Fixed Values)

Serial Number	Property	Value
1	flywayTask	migrate
2	flyway.enabled	true
3	spring.flyway.enabled	false
4	plato-config.flyway.domain.locations	db/migration/domain/plato, db/migration/domain/sms, db/migration/domain/cmc, db/migration/domain/oblm, db/migration/domain/vamlm
5	flyway.domain.placeholders.plato-feed-services.jndi	jdbc/PLATOFEED
6	flyway.domain.placeholders.plato-batch-server.jndi	jdbc/PLATOBATCH
7	flyway.domain.placeholders.plato.jndi	jdbc/PLATO
8	flyway.domain.placeholders.plato-config.jndi	jdbc/PLATO
9	flyway.domain.placeholders.plato-sec.jndi	jdbc/PLATO_SECURITY
10	flyway.domain.placeholders.plato-ui-config.jndi	jdbc/PLATO_UI_CONFIG
11	flyway.domain.placeholders.platoorch.domain.jndi	jdbc/PLATO-O
12	flyway.domain.placeholders.plato-config.db.jndi	jdbc/PLATO
13	flyway.domain.placeholders.sms.jndi	jdbc/sms
14	flyway.domain.placeholders.cmncore.jndi	jdbc/CMNCORE
15	flyway.domain.placeholders.lrt.jndi	jdbc/LRT
16	flyway.domain.placeholders.lmc.jndi	jdbc/LMC
17	flyway.domain.placeholders.lmd.jndi	jdbc/LMD
18	flyway.domain.placeholders.lmx.jndi	jdbc/LMX
19	flyway.domain.placeholders.lmm.jndi	jdbc/LMM
20	flyway.domain.placeholders.lmp.jndi	jdbc/LMP
21	flyway.domain.placeholders.lma.jndi	jdbc/LMA
22	flyway.domain.placeholders.lms.jndi	jdbc/LMS
23	flyway.domain.placeholders.lmr.jndi	jdbc/LMR
23	flyway.domain.placeholders.lmg.jndi	jdbc/LMG
24	flyway.domain.placeholders.icl.jndi	jdbc/ICL
25	flyway.domain.placeholders.vamlmchg.jndi	jdbc/VAMLMCHG
26	flyway.domain.placeholders.plato-api-gateway.pswd.validation.flag	Y

Table A-1 (Cont.) Plato - Property Values (Fixed Values)

Serial Number	Property	Value
27	flyway.domain.placeholders.plato-api-gateway.min.pswd.length	8
28	flyway.domain.placeholders.plato-api-gateway.max.pswd.length	12
29	flyway.domain.placeholders.plato-api-gateway.min.pswd.age	1
30	flyway.domain.placeholders.plato-api-gateway.max.pswd.age	90
31	Dflyway.domain.placeholders.plato-api-gateway.upper.char.flag	Y
32	flyway.domain.placeholders.plato-api-gateway.upper.char.count	2
33	flyway.domain.placeholders.plato-api-gateway.lower.char.flag	Y
34	flyway.domain.placeholders.plato-api-gateway.lower.char.count	2
35	flyway.domain.placeholders.plato-api-gateway.special.char.flag	Y
36	flyway.domain.placeholders.plato-api-gateway.special.char.count	1
37	flyway.domain.placeholders.plato-api-gateway.numeric.char.flag	Y
38	flyway.domain.placeholders.plato-api-gateway.numeric.char.count	1

Note:

For the complete properties of plato file, refer to the folder `/pre_deployment_setup/setUserOverrides.sh` under OSDC zip. The user must provide appropriate values for the key which are not listed in the above table.

Domain

The below properties have fixed values and should not be changed.

Table A-2 Domain - Property Values (Fixed Values)

Serial Number	Property	Value
1	flywayTask	migrate
2	flyway.enabled	true
3	spring.flyway.enabled	false
4	flyway.domain.ignoreMissingMigrations	true

Table A-2 (Cont.) Domain - Property Values (Fixed Values)

Serial Number	Property	Value
5	flyway.domain.outOfOrder	true

Provide the appropriate values for the following fields.

Table A-3 Domain - Property Values (Appropriate Values)

Serial Number	PROPERTY	VALUE
1	spring.cloud.config.uri	<config service uri>
2	apigateway.url	<apigateway url>
3	service.logging.environment	<environment> example: DEV, TEST
4	service.logging.path	<application debug logs path>
5	flyway.domain.placeholders.user.mapping.required	<User mapping required>
6	feed.recordLevelApprovalReqd	<true or false>
7	conductor.properties	Path to /config.properties
8	flyway.domain.placeholders.INTEGRATION.ENABLED	true or false

For the complete properties of domain file, refer to the folder `/pre_deployment_setup/setUserOverrides.sh` under OSDC zip.

> **Note:**
>
> For Conductor Properties, refer to **Conductor Installation** section in **Oracle Banking Microservices Platform Foundation Installation Guide**.

SSL Setup Configuration

The environment set up would be SSL-enabled by default.

The below placeholders would have to be configured into JVM for SSL/Non-SSL setup in plato domain.

Table A-4 SSL Setup Configuration

Key	Default Value - On Premise	Default Value - Cloud	Purpose
${apigateway.protocol}	https	https	Only for API gateway protocol. It must be **https only**.
${eureka.protocol}	https	http	For inter-service communication protocol. Values can be **http** or **https**.

Table A-4 (Cont.) SSL Setup Configuration

Key	Default Value - On Premise	Default Value - Cloud	Purpose
${prefer.ip.address.enabled}	false	false	For prefer IP address flag, it must be **false** only.
${nonsecure.port.enabled}	false	true	For disabling inter-service communication on non-secure port. Values can be **false** or **true**.
${secure.port.enabled}	true	false	For allowing inter-service calls on secure port. Values can be **false** or **true**.

Note:

${apigateway.protocol} should be set as https/http in Oracle Banking Liquidity Management domain irrespective of the SSL/Non-SSL configuration.

Index

I

Installation Process, *1-1*