

Installation Guide

Oracle Banking Liquidity Management

Release 14.5.3.0.0

Part Number F50376-01

November 2021

Table of Contents

1. PREFACE	1
1.1 INTRODUCTION	1
1.2 AUDIENCE	1
1.3 DOCUMENTATION ACCESSIBILITY	1
1.4 ORGANIZATION	1
2. DATABASE SETUP	2
2.1 INTRODUCTION	2
2.2 PREREQUISITE	2
2.3 DATABASE SETUP	2
2.4 USER GRANTS	3
3. DOMAINS & CLUSTER CONFIGURATION	4
3.1 ORACLE BANKING LIQUIDITY MANAGEMENT SERVICE DOMAINS CONFIGURATION	4
3.1.1 <i>Prerequisites</i>	4
3.1.2 <i>Steps to Create Domain</i>	4
4. DATA SOURCES CREATION	5
4.1 PREREQUISITE	5
4.2 DATA SOURCES LIST	5
5. DEPLOYMENTS	7
5.1 PREREQUISITE	7
5.2 DEPLOYMENT LIST	7
5.3 STEPS TO DEPLOY AS APPLICATION	9
6. RESTARTS AND REFRESH	10
6.1 RESTARTING SERVERS	10
7. LOGGING AREA	11
7.1 INTRODUCTION	11

1. Preface

1.1 Introduction

This guide would help you to install the Oracle Banking Liquidity Management services on designated environment. It is assumed that all the prior setup is already done related with WebLogic installation, WebLogic managed server creation and Oracle DB installation.

It is recommended to use dedicated managed server for each of the Oracle Banking Microservices Platform services.

Note: For the exact version to be installed, refer to **Tech Stack** section of Release Notes.

1.2 Audience

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

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>

1.4 Organization

This installation user guide would allow you to install following services and UI.

Services

- oblm-batch-services
- oblm-cash-concentration-services
- oblm-dashboard-services
- oblm-icl-services
- oblm-integration-services
- oblm-maintenance-services
- oblm-messaging-services
- oblm-pool-services
- oblm-report-services
- oblm-rtl-services
- oblm-structure-services
- oblm-sweep-services
- vamlm-charge-services

UI

- app-shell
- cmc-component-server
- oblm-component-server
- sms-component-server
- obvamlm-component-server

To install Interest and Charges Services, refer **Interest and Charges Services Installation Guide**.

2. Database Setup

2.1 Introduction

In this section you are going to setup database related configuration for Oracle Banking Liquidity Management Installation. It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

2.2 Prerequisite

- All the required Oracle Banking Liquidity Management schemas are created, and all the required grants are given.

Note: To know server's port number, refer ANNEXURE-1. "How to check port no" section.

2.3 Database Setup

Create the below Oracle Banking Liquidity Management schema's

Service Name	Schema Required
oblm-batch-services	OBLMXXXLMB
oblm-cash-concentration-services	OBLMXXXLMC
oblm-dashboard-services	OBLMXXXLMD
oblm-icl-services	OBLMXXXICL
oblm-integration-services	OBLMXXXLMX
oblm-maintenance-services	OBLMXXXLMM
oblm-messaging-services	OBLMXXXLMG
oblm-pool-services	OBLMXXXLMP
oblm-report-services	OBLMXXXLMR
oblm-rtl-services	OBLMXXXLRT
oblm-structure-services	OBLMXXXLMA
oblm-sweep-services	OBLMXXXLMS

Service Name	Schema Required
vamlm-charge-services	OBLMXXXCHG

2.4 User Grants

The following grants are provided to the user in the Projection schema which is required for ML use cases.

- GRANT CREATE MINING MODEL TO <PROJECTION SCHEMA>;
- GRANT CREATE ANY MINING MODEL TO <PROJECTION SCHEMA>;
- GRANT ALTER ANY MINING MODEL TO <PROJECTION SCHEMA>;
- GRANT DROP ANY MINING MODEL TO <PROJECTION SCHEMA>;
- GRANT SELECT ANY MINING MODEL TO <PROJECTION SCHEMA>;
- GRANT COMMENT ANY MINING MODEL TO <PROJECTION SCHEMA>;
- GRANT AUDIT ANY TO <PROJECTION SCHEMA>;
- GRANT EXECUTE ON DBMS_DATA_MINING to <PROJECTION SCHEMA>;
- GRANT CREATE TABLE TO <PROJECTION SCHEMA>
- GRANT DROP TABLE TO <PROJECTION SCHEMA>

3. Domains & Cluster Configuration

3.1 Oracle Banking Liquidity Management Service Domains Configuration

3.1.1 Prerequisites

1. Plato, SMS & Common core deployments are up & running. **(Required)**
2. Machine should have Java JDK installed.
3. Oracle Fusion Middleware has to be installed on the machine.

Note: For the exact version to be installed, refer to **Tech Stack** section of Release Notes.

3.1.2 Steps to Create Domain

It is recommended to have different managed server in one domain for each application. For Creating Domain and Configuration, please refer to ANNEXURE-1 “**How to create and Cluster Configuration**”.

4. Data Sources Creation

4.1 Prerequisite

1. Database schemas for all Oracle Banking Liquidity Management services are created, and all the required grants are given.
2. All the domains and clusters & managed servers are created.

4.2 Data sources List

The table below lists the data sources to be created on each managed server prior to deployment of applications onto managed servers.

Service Name	Data Source Name	Data Source JNDI	Target
oblm-maintenance-services	PLATO	jdbc/PLATO	Maintenance Server
	LMM	jdbc/LMM	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-integration-services	PLATO	jdbc/PLATO	Integration Server
	LMX	jdbc/LMX	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-rtl-services	PLATO	jdbc/PLATO	RTL Server
	LRT	jdbc/LRT	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-structure-services	PLATO	jdbc/PLATO	Structure Server
	LMA	jdbc/LMA	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-cash-concentration-services	PLATO	jdbc/PLATO	Cash Concentration Server
	LMC	jdbc/LMC	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-sweep-services	PLATO	jdbc/PLATO	Sweep Server
	LMS	jdbc/LMS	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	

oblm-pool-services	PLATO	jdbc/PLATO	Pool Server
	LMP	jdbc/LMP	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-batch-services	PLATO	jdbc/PLATO	Batch Server
	LMB	jdbc/LMB	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-dashboard-services	PLATO	jdbc/PLATO	Dashboard Server
	LMD	jdbc/LMD	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-report-services	PLATO	jdbc/PLATO	Report Server
	LMR	jdbc/LMR	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-icl-services	PLATO	jdbc/PLATO	ICL Server
	ICL	jdbc/ICL	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-messaging-services	PLATO	jdbc/PLATO	Messaging Server
	LMG	jdbc/LMG	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
vamlm-charge-services	PLATO	jdbc/PLATO	Charges Server
	VAMLMCHG	jdbc/VAMLMCHG	
	SMS	jdbc/sms	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	

For creating data source in please refer ANNEXURE-1 “**How to create Data sources**” section.

5. Deployments

5.1 Prerequisite

Before you proceed with below, please make sure previous steps are completed.

5.2 Deployment List

Below table give details of the deployments required on each Server for the Oracle Banking Liquidity Management applications to run.

Services

Application	Archive Name	OSDC Path	Target
oblm-maintenance-services	oblm-maintenance-services- {version}.war	\OBLM_SERVICES\oblm-maintenance-services	Maintenance Server
oblm-integration-services	oblm-integration-services- {version}.war	\OBLM_SERVICES\oblm-integration-services\	Integration Server
oblm-rtl-services	oblm-rtl-services- {version}.war	\OBLM_SERVICES\oblm-rtl-services\	RTL Server
oblm-structure-services	oblm-structure-services- {version}.war	\OBLM_SERVICES\oblm-structure-services\	Structure Server
oblm-cash-concentration-services	oblm-cash-concentration-services- {version}.war	\OBLM_SERVICES\oblm-cash-concentration-services\	Cash Concentration Server
oblm-sweep-services	oblm-sweep-services- {version}.war	\OBLM_SERVICES\oblm-sweep-services\	Sweep Server
oblm-pool-services	oblm-pool-services- {version}.war	\OBLM_SERVICES\oblm-pool-services\	Pool Server
oblm-batch-services	oblm-batch-services- {version}.war	\OBLM_SERVICES\oblm-batch-services\	Batch Server
oblm-dashboard-services	oblm-dashboard-services- {version}.war	\OBLM_SERVICES\oblm-dashboard-services\	Dashboard Server

oblm-report-services	oblm-report-services- {version}.war	\OBLM_SERVICES\oblm-report-services\	Report Server
oblm-icl-services	oblm-icl-services- {version}.war	\OBLM_SERVICES\oblm-icl-services\	ICL Server
oblm-messaging-services	oblm-messaging-services- {version}.war	\OBLM_SERVICES\oblm-messaging-services\	Messaging Server
vamlm-charge-services	vamlm-charge-services- {version}.war	\OBVAM_LM_CHARGES\ vamlm-charge-services\	Charges Server

vamlm-charge-services Deployment:

vamlm-charge-services is the common service for Oracle Banking Virtual Account Management and Oracle Banking Liquidity Management. In a co-deployed situation, it should be deployed from only one of the packages.

Both the product packages contain the exact same version of this service. If you deploy it from the one of the product packages, then do not deploy it from the other one.

Note: The value of deployment type in the property table is dependent on the type of deployment.

- If the deployment is standalone for Oracle Banking Liquidity Management, the value should be **lmchg**.
- If the deployment is standalone for Oracle Banking Virtual Account Management, the value should be **vamchg**.
- If the deployment is common for both the products, the value should be **codeployed**.

The below listed common core services must be deployed in a common server to enable the vamlm-charge-services.

- cmc-businessoverrides-services
- cmc-charges-calculation-services
- cmc-resource-segment-orchestrator-service
- cmc-resourceclass-services
- cmc-screenclass-services

UI

Application	Archive Name	OSDC Path	Target
app-shell	app-shell-{version}.war	\UI	UI Server
oblm-component-server	oblm-component-server-{version}.war	\UI	UI Server
cmc-component-server	cmc-component-server-{version}.war	\UI	UI Server
sms-component-server	sms-component-server-{version}.war	\UI	UI Server
obvamlm-component-server	obvamlm-component-server- {version}.war	\UI	UI Server

NOTE: Refer to OSDC file for the exact version number for each service.

obvamlm-component-server Deployment:

obvamlm-component-server is the common component server for Charges in Oracle Banking Virtual Account Management and Oracle Banking Liquidity Management. In a co-deployed situation, it should be deployed from only one of the packages.

Both the product packages contain the exact same version of this component server. If you deploy it from the one of the product packages, then do not deploy it from the other one.

5.3 Steps to Deploy as Application

To deploy application please refer ANNEXURE-1. “**How to deploy section**”.

6. Restarts and Refresh

Once everything is deployed, the managed servers. And for each application call path “/refresh” for refreshing the configuration properties.

6.1 Restarting Servers

To restart the server please refer to ANNEXURE-1.”How to restart” section.

7. Logging Area

7.1 Introduction

This part of the document will talk about the logs area where after deployment of Oracle Banking Liquidity Management Applications in WebLogic server.

Logging Area

Oracle Banking Liquidity Management Application writes logs in the below area of the server:

<WEBLOGIC_DOMAIN_CONFIG_AREA/servers/OBLMAPP/logs/OBLMAPP.out

Let's assume a domain has been created **oblm_domain** with **managed_server** name called **OBLMAPP** in the following area of the server

/scratch/oracle/middleware/user_projects/domains/oblm_domain". Logging area for OBLM applications would be

/scratch/oracle/middleware/user_projects/domains/oblm_domain/servers/OBLMAPP/logs/OBLMAPP.out.



Oracle Banking Liquidity Management Installation Guide

Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway

Goregaon (East)

Mumbai, Maharashtra 400 063

India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax: +91 22 6718 3001

<https://www.oracle.com/industries/financial-services/index.html>

Copyright © 2018, 2021, Oracle and/or its affiliates. All rights reserved.

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

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. 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 failsafe, 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.

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.

This software or hardware and documentation may provide access to or information on 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. 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.