

**Installation Guide**

# **Oracle Banking Liquidity Management**

Release 14.6.0.0.0

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# 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-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**.

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## 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-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	OBLMXXXLMX
oblm-report-services	OBLMXXXLMR
oblm-rtl-services	OBLMXXXLRT
oblm-structure-services	OBLMXXXLMA
oblm-sweep-services	OBLMXXXLMS
vamlm-charge-services	OBLMXXXCHG

**Note:** Refer the section 2.4 for change in existing schema from LMP to LMX for oblm-pool-services.

## 2.4 Migration of Schema for Existing Pool Structures

For the optimal performance of Pool & Reallocation operation, existing pool structures data has to be migrated. Following are the actions to be taken

1. Update plato.properties set value = <<LMXSCHEMA>> where application = 'oblm-pool-services' and key = 'flyway.domain.schemas';
2. Deploy the OBLM Pool Service
3. The data from the tables mentioned above must be ported from existing pool schema (XXXLMP) to new schema (XXXLMX) for existing clients who have deployed oblm-pool-services
  - ERTB\_MSGS
  - LMP\_TB\_POOL\_CONTRIBUTION
  - LMP\_TB\_POOL\_CONTRIBUTION\_BVT
  - LMP\_TB\_POOL\_LOG
  - LMP\_TB\_POOL\_LOG\_BVT
  - LMP\_TB\_POOL\_LOG\_SI
  - LMP\_TB\_POOL\_POSITION
  - LMP\_TB\_POOL\_POSITION\_BVT
  - LMP\_TB\_POOL\_POSITIONSI
  - LMP\_TB\_REALLOC\_SYS\_ACC\_LINK
  - LMP\_TB\_REALLOCATION\_DETAIL
  - LMP\_TB\_REALLOCATION\_DETAILSI
  - LMP\_TB\_REALLOCATION\_LOG
  - LMP\_TB\_REALLOCATION\_LOGSI

## 2.5 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>

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## 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	
	PLATOFEED	jdbc/PLATOFEED	
	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
oblm-integration-services	PLATO	jdbc/PLATO	Integration Server
	LMX	jdbc/LMX	
	SMS	jdbc/sms	
	PLATOFEED	jdbc/PLATOFEED	
	PLATOBATCH	jdbc/PLATOBATCH	
	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	
	PLATOFEED	jdbc/PLATOFEED	
	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	
	PLATOBATCH	jdbc/PLATOBATCH	
oblm-pool-services	PLATO	jdbc/PLATO	Pool Server
	LMP	jdbc/LMP	
	SMS	jdbc/sms	
	PLATOBATCH	jdbc/PLATOBATCH	
	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	
	PLATOBATCH	jdbc/PLATOBATCH	
	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.

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## 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-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

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

**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**”.

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## 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.

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## 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

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