

Oracle Banking Liquidity Management
Services Installation Guide
Release 14.2.0.0.0
[December] [2018]



Table of Contents

1. PREFACE	1-1
1.1 INTRODUCTION	1-1
1.2 AUDIENCE	1-1
1.3 DOCUMENTATION ACCESSIBILITY	1-1
1.4 ORGANIZATION	1-1
1.5 RELATED DOCUMENTS	1-1
2. DATABASE SETUP.....	2-2
2.1 INTRODUCTION	2-2
2.2 PREREQUISITE	2-2
2.3 DATABASE SETUP.....	2-2
3. DOMAINS & CLUSTER CONFIGURATION	3-8
3.1 OBLM SERVICE DOMAINS CONFIGURATION.....	3-8
3.1.1 Prerequisite.....	3-8
3.1.2 Domains Creation and Configuration	3-8
4. DATA SOURCES CREATION.....	4-9
4.1 PREREQUISITE	4-9
4.2 DATA SOURCES LIST.....	4-9
5. DEPLOYMENTS	5-11
5.1 PREREQUISITE	5-11
5.2 DEPLOYMENT LIST	5-11
5.3 STEPS TO DEPLOY AS APPLICATION.....	5-12
6. RESTARTS AND REFRESH.....	6-13
6.1 RESTARTING SERVERS.....	6-13
7. LOGGING AREA	7-14
7.1 INTRODUCTION.....	7-14

1.1 Introduction

This guide helps you to install the OBLM services on designated environment. It is assumed that all the prior setup is already done related with WebLogic 12c installation, WebLogic managed server creation and Oracle DB installation.

It is recommended to use dedicated managed server for each of the OBLM services.

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 in the same order.

- oblm-batch-services
- oblm-bcm-services
- oblm-cash-concentration-services
- oblm-dashboard-services
- oblm-integration-services
- oblm-interest-services
- oblm-maintenance-services
- oblm-pool-services
- oblm-report-services
- oblm-structure-services
- oblm-sweep-services

1.5 Related Documents

- Common Core Services Installation Guide
- Day-0 Setup Guide
- LDAP Setup Guide
- Oracle Banking Liquidity Management Annexure
- Oracle Banking Liquidity Management Pre-Installation Guide
- Oracle Banking Liquidity Management User Interface Installation Guide
- Plato Infrastructure Services Installation Guide
- Security Management System Services Installation Guide
- SSL Setup Guide

2. Database Setup

2.1 Introduction

In this section you are going to setup database related configuration for OBLM 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 OBLM schemas are created and all the required grants are given.

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

2.3 Database Setup

There are two alternate ways to create the database setup, viz.

1. Collect scripts from both the path mentioned in From-Path section in the table and compile into respective schemas.
2. Run the **oblm_XXX_db_setup.plb** files in the order given below from the OSDC package.

[Note: To Compile DDL, SEQ or INC please refer- ANNEXURE-1.docx "How to compile DDL, SEQ and INC Section". To execute sms_db_setup.plb please refer ANNEXURE-1.docx "How to execute PLB file."]

PLB EXECUTION ORDER:

Filename	Compile to
oblm_batch_db_setup.plb	oblm batch schema
oblm_bcm_db_setup.plb	oblm bcm schema
oblm_cash_concentration_db_setup.plb	oblm cash concentration schema
oblm_dashboard_db_setup.plb	oblm dashboard schema
oblm_ic_db_setup.plb \\OBLM_SERVICES\oblm-ic-services\DB\DOMAIN\setupIC.plb	oblm ic schema
oblm_integration_db_setup.plb	oblm integration schema

oblm_interest_db_setup.plb	oblm interest schema
oblm_maintenance_db_setup.plb	oblm maintenance schema
oblm_pool_db_setup.plb	oblm pool schema
oblm_report_db_setup.plb	oblm report schema
oblm_structure_db_setup.plb	oblm structure schema
oblm_sweep_db_setup.plb	oblm sweep schema

DDL:

Service Name	From-Path	Compile To
oblm-batch-services	\COMMON_INFRA\DB\DDL	oblm batch schema
	\OBLM_SERVICES\oblm-batch-services\DB\DOMAIN\DDL	
oblm-bcm-services	\COMMON_INFRA\DB\DDL	oblm bcm schema
	\OBLM_SERVICES\oblm-bcm-services\DB\DOMAIN\DDL	
oblm-cash-concentration-services	\COMMON_INFRA\DB\DDL	oblm cash concentration schema
	\OBLM_SERVICES\oblm-cash-concentration-services\DB\DOMAIN\DDL	
oblm-dashboard-services	\COMMON_INFRA\DB\DDL	oblm dashboard schema
	\OBLM_SERVICES\oblm-dashboard-services\DB\DOMAIN\DDL	
oblm-integration-services	\COMMON_INFRA\DB\DDL	oblm integration schema
	\OBLM_SERVICES\oblm-integration-services\DB\DOMAIN\DDL	
oblm-interest-services	\COMMON_INFRA\DB\DDL	oblm interest schema
	\OBLM_SERVICES\oblm-interest-services\DB\DOMAIN\DDL	

oblm-maintenance-services	\COMMON_INFRA\DB\DDL	oblm maintenance schema
	\OBLM_SERVICES\oblm-maintenance-services\DB\DOMAIN\DDL	
oblm-pool-services	\COMMON_INFRA\DB\DDL	oblm pool schema
	\OBLM_SERVICES\oblm-pool-services\DB\DOMAIN\DDL	
oblm-report-services	\COMMON_INFRA\DB\DDL	oblm report schema
	\OBLM_SERVICES\oblm-report-services\DB\DOMAIN\DDL	
oblm-structure-services	\COMMON_INFRA\DB\DDL	oblm structure schema
	\OBLM_SERVICES\oblm-structure-services\DB\DOMAIN\DDL	
oblm-sweep-services	\COMMON_INFRA\DB\DDL	oblm sweep schema
	\OBLM_SERVICES\oblm-sweep-services\DB\DOMAIN\DDL	
oblm-ic-services	\COMMON_INFRA\DB\DDL	oblm ic schema
	\OBLM_SERVICES\oblm-ic-services\DB\DOMAIN\ setupIC.plb (Run this file alone)	

INC:

Service Name	From-Path	Compile To
oblm-batch-services	\OBLM_SERVICES\oblm-batch-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-batch-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM batch schema
	\OBLM_SERVICES\oblm-batch-services\DB\DOMAIN\INC	

oblm-bcm-services	\OBLM_SERVICES\oblm-bcm-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-bcm-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM bcm schema
	\OBLM_SERVICES\oblm-bcm-services\DB\DOMAIN\INC	
oblm-cash-concentration-services	\OBLM_SERVICES\oblm-cash-concentration-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-cash-concentration-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM cash concentration schema
	\OBLM_SERVICES\oblm-cash-concentration-services\DB\DOMAIN\INC	
oblm-dashboard-services	\OBLM_SERVICES\oblm-dashboard-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-dashboard-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM dashboard schema
	\OBLM_SERVICES\oblm-dashboard-services\DB\DOMAIN\INC	
oblm-integration-services	\OBLM_SERVICES\oblm-integration-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-integration-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM integration schema
	\OBLM_SERVICES\oblm-integration-services\DB\DOMAIN\INC	
oblm-interest-services	\OBLM_SERVICES\oblm-interest-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-interest-services\DB\SMS\INC	SMS Schema

	\COMMON_INFRA\DB\INC	OBLM interest schema
	\OBLM_SERVICES\oblm-interest-services\DB\DOMAIN\INC	
oblm-maintenance-services	\OBLM_SERVICES\oblm-maintenance-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-maintenance-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM maintenance schema
	\OBLM_SERVICES\oblm-maintenance-services\DB\DOMAIN\INC	
oblm-pool-services	\OBLM_SERVICES\oblm-pool-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-pool-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM pool schema
	\OBLM_SERVICES\oblm-pool-services\DB\DOMAIN\INC	
oblm-report-services	\OBLM_SERVICES\oblm-report-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-report-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM report schema
	\OBLM_SERVICES\oblm-report-services\DB\DOMAIN\INC	
oblm-structure-services	\OBLM_SERVICES\oblm-structure-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-structure-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM structure schema
	\OBLM_SERVICES\oblm-structure-services\DB\DOMAIN\INC	
oblm-sweep-services	\OBLM_SERVICES\oblm-sweep-services\DB\PLATO\INC	Plato Schema

	\OBLM_SERVICES\oblm-sweep-services\DB\SMS\INC	SMS Schema
	\COMMON_INFRA\DB\INC	OBLM sweep schema
	\OBLM_SERVICES\oblm-sweep-services\DB\DOMAIN\INC	
oblm-ic-services	\OBLM_SERVICES\oblm-ic-services\DB\PLATO\INC	Plato Schema
	\OBLM_SERVICES\oblm-ic-services\DB\SMS\INC	SMS Schema

- Run the below script on oblm ic schema. Replace *<oblm_maintenance_schema>* with the maintenance schema name.

```
CREATE SYNONYM LMM_TM_ACCOUNT FOR
<oblm-maintenance-services>.LMM_TM_ACCOUNT
```

```
CREATE SYNONYM LMM_TM_BANK_PARAMETERS FOR <oblm-maintenance-
services>.LMM_TM_BANK_PARAMETERS
```

```
CREATE SYNONYM LMM_TM_BRANCH_PARAMETERS FOR <oblm-maintenance-
services>.LMM_TM_BRANCH_PARAMETERS
```

3. Domains & Cluster Configuration

3.1 OBLM Service Domains Configuration

3.1.1 Prerequisite

- Database setup for all the modules viz. Plato, SMS, Common Core, OBLM Services and all Day-0 setups must be completed. **(Required)**
- Plato, SMS & Common core deployments are up & running. **(Required)**
- Machine should have Java JDK1.8.0_181 has installed.
- Oracle Fusion Middleware 12cR2 12.2.1.3 has to be installed on the machine.

3.1.2 Domains Creation and Configuration

It is recommended to create the domain structure as given below and also to maintain the same nomenclature. For Creating Domain and Configuration please refer to ANNEXURE-1 “**How to create and Cluster Configuration**”. There will be three domains for Service deployments.

Domain name: oblm1

- ❖ oblm_batch_cluster
 - managed_server1
- ❖ oblm_bcm_cluster
 - managed_server2
- ❖ oblm_cash_concentration_cluster
 - managed_server3
- ❖ oblm_dashboard_cluster
 - managed_server4

Domain name: oblm2

- ❖ oblm_ic_cluster
 - managed_server1
- ❖ oblm_integration_cluster
 - managed_server2
- ❖ oblm_interest_cluster
 - managed_server3
- ❖ oblm_maint_cluster
 - managed_server4

Domain name: oblm3

- ❖ oblm_pool_cluster
 - managed_server1
- ❖ oblm_report_cluster
 - managed_server2
- ❖ oblm_struct_cluster
 - managed_server3
- ❖ oblm_sweep_cluster
 - managed_server4

4. Data Sources Creation

4.1 Prerequisite

- Database schemas for all OBLM services are created and all the required grants are given.
- 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	OBLM Maintenance Server
	LMM	jdbc/LMM	
oblm-interest-services	PLATO	jdbc/PLATO	OBLM Interest Server
	LMI	jdbc/LMI	
oblm-integration-services	PLATO	jdbc/PLATO	OBLM Integration Server
	LMX	Jdbc/LMX	
oblm-bcm-services	PLATO	jdbc/PLATO	OBLM BCM Server
	LBC	Jdbc/LBC	
oblm-structure-services	PLATO	jdbc/PLATO	OBLM Structure Server
	LMA	jdbc/LMA	
oblm-cash-concentration-services	PLATO	jdbc/PLATO	OBLM Cash Concentration Server
	LMC	jdbc/LMC	
oblm-sweep-services	PLATO	jdbc/PLATO	OBLM Sweep Server
	LMS	jdbc/LMS	
oblm-pool-services	PLATO	jdbc/PLATO	OBLM Pool Server
	LMP	jdbc/LMP	
oblm-batch-services	PLATO	jdbc/PLATO	OBLM Batch Server
	LMB	jdbc/LMB	
oblm-dashboard-services	PLATO	jdbc/PLATO	OBLM Dashboard Server
	LMD	jdbc/LMD	
oblm-report-services	PLATO	jdbc/PLATO	OBLM Report Server
	LMR	jdbc/LMR	

oblm-ic-services	PLATO	jdbc/PLATO	OBLM IC Server
	LIC	jdbc/LIC	

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 oblm applications to run. Deploy one after other in the same given order.

Application	Archive Name	OSDC Path	Target
oblm-maintenance-services	oblm-maintenance-services-1.0.0.war	\\OBLM_SERVICEES\oblm-maintenance-services\APP	OBLM Maintenance Server
oblm-interest-services	oblm-interest-services-1.0.0.war	\\OBLM_SERVICEES\oblm-interest-services\APP	OBLM Interest Server
oblm-integration-services	oblm-integration-services-1.0.0.war	\\OBLM_SERVICEES\oblm-integration-services\APP	OBLM Integration Server
oblm-bcm-services	oblm-bcm-services-1.0.0.war	\\OBLM_SERVICEES\oblm-bcm-services\APP	OBLM BCM Server
oblm-structure-services	oblm-structure-services-1.0.0.war	\\OBLM_SERVICEES\oblm-structure-services\APP	OBLM Structure Server
oblm-cash-concentration-services	oblm-cash-concentration-services-1.0.0.war	\\OBLM_SERVICES\oblm-cash-concentration-services\APP	OBLM Cash Concentration Server
oblm-sweep-services	oblm-sweep-services-1.0.0.war	\\OBLM_SERVICEES\oblm-sweep-services\APP	OBLM Sweep Server
oblm-pool-services	oblm-pool-services-	\\OBLM_SERVICES\oblm-pool-	OBLM Pool Server

	1.0.0.war	services\APP	
oblm-batch-services	oblm-batch-services-1.0.0.war	\OBLM_SERVICES\oblm-batch-services\APP	OBLM Batch Server
oblm-dashboard-services	oblm-dashboard-services-1.0.0.war	\OBLM_SERVICES\oblm-dashboard-services\APP	OBLM Dashboard Server
oblm-report-services	oblm-report-services-1.0.0.war	\OBLM_SERVICES\oblm-report-services\APP	OBLM Report Server
oblm-ic-services	oblm-ic-services-1.0.0.war	\OBLM_SERVICES\oblm-ic-services\APP	OBLM IC Server

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 OBLM Applications in WebLogic server.

Logging Area

OBLM 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.
```




Services Installation Guide
Oracle Banking Liquidity Management
Version 14.2.0.0.0
[Dec] [2018]

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
www.oracle.com/financialservices/

Copyright © 2018, 2018, 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.