Oracle® Banking Liquidity Management

Interest and Charges Services Installation Guide

Release 14.7.0.3.0

F86179-01

August 2023

ORACLE®

Oracle Banking Liquidity Management Interest and Charges Services Installation Guide, Release 14.7.0.3.0

F86179-01

Contents

Preface

Purpose

This guide helps to install the Interest and Charges 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 Interest and Charges services.

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

Audience

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

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.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/

lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information on any related features, refer to the following documents:

- *Oracle Banking Liquidity Management Installation Guide*
- *Configuration and Deployment Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Organization

This guide allows to install the following services in same order:

- oblm-ic-config-services
- oblm-ic-charge-calc-services
- oblm-ic-bod-batch-services
- oblm-ic-external-adapter-services
- oblm-ic-intchg-accting-services
- oblm-ic-interest-accrual-services
- oblm-ic-interest-allocate-services
- oblm-ic-interest-batch-services
- oblm-ic-interest-calc-services

ORACLE®

- oblm-ic-interest-input-services

- oblm-ic-interest-liquidation-services

- oblm-ic-interest-maintqueue-services

- oblm-ic-interest-resolve-services

- oblm-ic-maintenance-services

- oblm-ic-online-liquidation-services

If the IC services are installed for Oracle Banking Virtual Account Management instead of the above services below listed services has to be deployed in the below order:

- obvam-ic-config-services

- obvam-ic-charge-calc-services

- obvam-ic-bod-batch-services

- obvam-ic-external-adapter-services

- obvam-ic-intchg-accting-services

- obvam-ic-interest-accrual-services

- obvam-ic-interest-allocate-services

- obvam-ic-interest-batch-services

- obvam-ic-interest-calc-services

- obvam-ic-interest-input-services

- obvam-ic-interest-liquidation-services

- obvam-ic-interest-maintqueue-services

- obvam-ic-interest-resolve-services

- obvam-ic-maintenance-services

- obvam-ic-online-liquidation-services

1
Database Setup

This topic describes about the database configuration setup for Oracle Banking Liquidity Management IC Installation.

Before proceeding with the below setup, make sure that the required schemas are provided:

- For IC to Oracle Banking Liquidity Management, IC services will use the existing Oracle Banking Liquidity Management's Integration Schema.

- For IC to Oracle Banking Virtual Account Management, IC services will use the existing obvam-account-services Schema.

> **✎ Note:**
>
> To know server's port number, refer to **Check Port Number** section in **Configuration and Deployment Guide**.

2
Domains and Cluster Configuration

This topic describes about the domain configuration for Interest and Charges Services in Oracle Banking Liquidity Management.

Prerequisite

- Oracle Banking Microservices Architecture, SMS & Common core deployments are up & running. **(Required)**.
- Machine should have Java JDK installed.
- Oracle Fusion Middleware has to be installed on the machine.
- Deployment of OBLM integration services or OBVAM account service must be completed.

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

Domains Creation and Configuration

It is recommended to create the domain structure as given below and to maintain the same nomenclature. For creating Domain and Configuration, refer to **Create Domain and Cluster Configuration** section in **Configuration and Deployment Guide**.

Domain name: obic

- oblm-ic-config-cluster
  - managed_server1
- oblm-ic-charge-calc-cluster
  - managed_server2
- oblm-ic-intchg-accting-cluster
  - managed_server3
- oblm-ic-interest-accrual-cluster
  - managed_server4
- oblm-ic-interest-allocate-cluster
  - managed_server5
- oblm-ic-interest-batch-cluster
  - managed_server6
- oblm-ic-interest-calc-cluster
  - managed_server7

- oblm-ic-interest-input-cluster

    – managed_server8

- oblm-ic-interest-liquidation-cluster

    – managed_server9

- oblm-ic-interest-maintqueue-cluster

    – managed_server10

- oblm-ic-interest-resolve-cluster

    – managed_server11

- oblm-ic-maintenance-cluster

    – managed_server12

- oblm-ic-online-liquidation-cluster

    – managed_server13

- oblm-ic-bod-batch-cluster

    – managed_server14

- oblm-ic-external-adapter-cluster

    – managed_server15

Domains Creation and Configuration IC with Oracle Banking Virtual Account Management

It is recommended to create the domain structure as given below and to maintain the same nomenclature. For creating Domain and Configuration, refer to **Create Domain and Cluster Configuration** section in **Configuration and Deployment Guide**.

Domain name: obic

- obvam-ic-config-cluster

    – managed_server1

- obvam-ic-charge-calc-cluster

    – managed_server2

- obvam-ic-intchg-accting-cluster

    – managed_server3

- obvam-ic-interest-accrual-cluster

    – managed_server4

- obvam-ic-interest-allocate-cluster

    – managed_server5

- obvam-ic-interest-batch-cluster

    – managed_server6

- obvam-ic-interest-calc-cluster

    – managed_server7

- obvam-ic-interest-input-cluster

- – managed_server8
- obvam-ic-interest-liquidation-cluster
  - – managed_server9
- obvam-ic-interest-maintqueue-cluster
  - – managed_server10
- obvam-ic-interest-resolve-cluster
  - – managed_server11
- obvam-ic-maintenance-cluster
  - – managed_server12
- obvam-ic-online-liquidation-cluster
  - – managed_server13
- obvam-ic-bod-batch-cluster
  - – managed_server14
- obvam-ic-external-adapter-cluster
  - – managed_server15

3

Data Source Creation

This topic describes about the data source creation for Oracle Banking Liquidity Management IC Installation.

Prerequisites

- Database schemas for all Interest and Charges services are created and all the required grants are given.

- All the domains and clusters & managed servers are created.

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.

For creating data source, refer to **Create Datasource** section in **Configuration and Deployment Guide**.

Table 3-1   Data Source List

Data Source Name	Data Source JNDI	Target
PLATO	jdbc/PLATO	managed_server1
OBIC	jdbc/OBIC	managed_server2
PLATOBATCH	jdbc/PLATOBATCH	managed_server3
PLATOFEED	jdbc/PLATOFEED	managed_server4
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	managed_server5
SMS	jdbc/sms	managed_server6
		managed_server7
		managed_server8
		managed_server9
		managed_server10
		managed_server11
		managed_server12
		managed_server13
		managed_server14
		managed_server15

ORACLE®

4

Deployments

This topic describes about the deployments for Oracle Banking Liquidity Management IC Installation.

Prerequisite

Before proceeding with the below setup, ensure that the previous steps are completed.

Deployment List - Oracle Banking Liquidity Management

The below table provides the deployment details required on each server for Oracle Banking Liquidity Management applications to run. Deploy one after another in the same order.

Table 4-1   Deployments List - Oracle Banking Liquidity Management

Application	Archive Name	OSDC Path	Target
oblm-ic-config-services	oblm-ic-config-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-config-services\	oblm-ic config server
oblm-ic-charge-calc-services	oblm-ic-charge-calc-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-charge-calc-services\	oblm-ic charge calc server
oblm-ic-intchg-accting-services	oblm-ic-intchg-accting-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-intchg-accting-services\	oblm-ic intchg accting server
oblm-ic-interest-accrual-services	oblm-ic-interest-accrual-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-accrual-services\	oblm-ic interest accrual server
oblm-ic-interest-allocate-services	oblm-ic-interest-allocate-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-allocate-services\	oblm-ic interest allocate server
oblm-ic-interest-batch-services	oblm-ic-interest-batch-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-batch-services\	oblm-ic interest batch server
oblm-ic-interest-calc-services	oblm-ic-interest-calc-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-calc-services\	oblm-ic interest calc server
oblm-ic-interest-input-services	oblm-ic-interest-input-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-input-services\	oblm-ic interest input server
oblm-ic-interest-liquidation-services	oblm-ic-interest-liquidation-services-{version}.war	oblm-ic-interest-liquidation-services-6.0.0.war	oblm-ic interest liquidation server
oblm-ic-interest-maintqueue-services	oblm-ic-interest-maintqueue-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-maintqueue-services\	oblm-ic interest maintqueue server

Table 4-1   (Cont.) Deployments List - Oracle Banking Liquidity Management

Application	Archive Name	OSDC Path	Target
oblm-ic-interest-resolve-services	oblm-ic-interest-resolve-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-interest-resolve-services\	oblm-ic interest resolve server
oblm-ic-maintenance-services	oblm-ic-maintenance-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-maintenance-services\	oblm-ic maintenance server
oblm-ic-online-liquidation-services	oblm-ic-online-liquidation-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-online-liquidation-services\	oblm-ic online liquidation server
oblm-ic-bod-batch-services	oblm-ic-bod-batch-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-bod-batch-services\	oblm-ic bod batch server
oblm-ic-external-adapter-services	oblm-ic-external-adapter-services-{version}.war	\OBIC_SERVICES\OBLM\oblm-ic-external-adapter-services\	oblm-ic external adapter server

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

Deployment List - Oracle Banking Virtual Account Management

The below table provides the deployment details required on each server for Oracle Banking Virtual Account Management applications to run. Deploy one after another in the same order.

Table 4-2   Deployment List - Oracle Banking Virtual Account Management

Application	Archive Name	OSDC Path	Target
obvam-ic-config-services	obvam-ic-config-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-config-services\	obvam-ic config server
obvam-ic-charge-calc-services	obvam-ic-charge-calc-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-charge-calc-services\	obvam-ic charge calc server
obvam-ic-intchg-accting-services	obvam-ic-intchg-accting-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-intchg-accting-services\	obvam-ic intchg accting server
obvam-ic-interest-accrual-services	obvam-ic-interest-accrual-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-accrual-services\	obvam-ic interest accrual server
obvam-ic-interest-allocate-services	obvam-ic-interest-allocate-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-allocate-services\	obvam-ic interest allocate server

Table 4-2   (Cont.) Deployment List - Oracle Banking Virtual Account Management

Application	Archive Name	OSDC Path	Target
obvam-ic-interest-batch-services	obvam-ic-interest-batch-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-batch-services\	obvam-ic interest batch server
obvam-ic-interest-calc-services	obvam-ic-interest-calc-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-calc-services\	obvam-ic interest calc server
obvam-ic-interest-input-services	obvam-ic-interest-input-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-input-services\	obvam-ic interest input server
obvam-ic-interest-liquidation-services	obvam-ic-interest-liquidation-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-liquidation-services\	obvam-ic interest liquidation server
obvam-ic-interest-maintqueue-services	obvam-ic-interest-maintqueue-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-maintqueue-services\	obvam-ic interest maintqueue server
obvam-ic-interest-resolve-services	obvam-ic-interest-resolve-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-interest-resolve-services\	obvam-ic interest resolve server
obvam-ic-maintenance-services	obvam-ic-maintenance-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-maintenance-services\	obvam-ic maintenance server
obvam-ic-bod-batch-services	obvam-ic-bod-batch-services-{version}.war	\OBIC_SERVICES\OBLM\obvam-ic-bod-batch-services\	obvam-ic bod batch server
obvam-ic-external-adapter-services	obvam-ic-external-adapter-services-{version}.war	\OBIC_SERVICES\OBLM\obvam-ic-external-adapter-services\	obvam-ic external adapter server
obvam-ic-online-liquidation-services	obvam-ic-online-liquidation-services-{version}.war	\OBIC_SERVICES\obvam\obvam-ic-online-liquidation-services\	obvam-ic online liquidation server

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

Steps to Deploy as Application

To deploy the application, refer to **Deploy Application** section in **Configuration and Deployment Guide**.

5
Restarts and Refresh

This topic describes the procedure to restart and refresh the servers.

Once everything is deployed, restart all the managed servers. For each application, call path `/refresh` to refresh the configuration properties.

> **✎ Note:**
>
> To restart the server, refer to **Restart Servers** section in **Configuration and Deployment Guide**.

6
Logging Area

This topic describes about the logging area of Interest and Charges Applications in WebLogic server.

Server Logs

Managed Serverwrites logs in the below area of the server: `<WEBLOGIC_DOMAIN_CONFIG_AREA/servers/managed_server1/logs/ managed_server1.out`

Let's assume a domain has been created obic with managed_server name called managed_server1 in the following area of the server `/scratch/oracle/middleware/user_projects/domains/obic`.

Logging area for Interest and Charges applications would be `/scratch/oracle/middleware/user_projects/domains/obic/servers/managed_server1/logs/managed_server1.out`

Application Log

Application logs are found under `/scratch/obic/logs` and this path has to be configured in `setDomainEnv.sh as -Dplato.service.logging.path=/scratch/obic/logs`

Index

D

Data Source Creation, *3-1*
Database Setup, *1-1*

L

Logging Area, *6-1*