

# Oracle® Banking Liquidity Management

## Interest and Charges Services Installation Guide



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# 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.

## List of Topics

This guide is organized as follows:

**Table 1 List of Topics**

Topics	Description
<b>Database Setup</b>	This topic provides the information about setup database setup related configuration for Oracle Banking Liquidity Management IC installation.
<b>Domains and Cluster Configuration</b>	This topic provides the information about the Domains & Cluster Configuration.
<b>Data Sources Creation</b>	This topic provides the information about the creation of data sources.
<b>Deployments</b>	This topic provides the information about the deployments.
<b>Restarts and Refresh</b>	This topic provides the information about the restart and refresh.
<b>Logging Area</b>	This topic provides the information about the logs area.

## 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
  - 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 **ANNEXURE - 1**.

# 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.



### 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 **ANNEXURE - 1**.

**Domain name:** oblm

- 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 **ANNEXURE - 1**.

**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 **ANNEXURE - 1**.

**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
		managed_server4
		managed_server5
		managed_server6
		managed_server7
		managed_server8
		managed_server9
		managed_server10
		managed_server11
		managed_server12
		managed_server13
		managed_server14
		managed_server15

# 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\OBL\M\oblm-ic-config-services\	oblm-ic config server
oblm-ic-charge-calc-services	oblm-ic-charge-calc-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-charge-calc-services\	oblm-ic charge calc server
oblm-ic-intchg-accting-services	oblm-ic-intchg-accting-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-intchg-accting-services\	oblm-ic intchg accting server
oblm-ic-interest-accrual-services	oblm-ic-interest-accrual-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-interest-accrual-services\	oblm-ic interest accrual server
oblm-ic-interest-allocate-services	oblm-ic-interest-allocate-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-interest-allocate-services\	oblm-ic interest allocate server
oblm-ic-interest-batch-services	oblm-ic-interest-batch-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-interest-batch-services\	oblm-ic interest batch server
oblm-ic-interest-calc-services	oblm-ic-interest-calc-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-interest-calc-services\	oblm-ic interest calc server
oblm-ic-interest-input-services	oblm-ic-interest-input-services-{version}.war	\\OBIC_SERVICES\OBL\M\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\OBL\M\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\OBL\M\oblm-ic-interest-resolve-services\	oblm-ic interest resolve server
oblm-ic-maintenance-services	oblm-ic-maintenance-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-maintenance-services\	oblm-ic maintenance server
oblm-ic-online-liquidation-services	oblm-ic-online-liquidation-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-online-liquidation-services\	oblm-ic online liquidation server
oblm-ic-bod-batch-services	oblm-ic-bod-batch-services-{version}.war	\\OBIC_SERVICES\OBL\M\oblm-ic-bod-batch-services\	oblm-ic bod batch server
oblm-ic-external-adapter-services	oblm-ic-external-adapter-services-{version}.war	\\OBIC_SERVICES\OBL\M\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-acting-services	obvam-ic-intchg-acting-services-{version}.war	\\OBIC_SERVICES\obvam\obvam-ic-intchg-acting-services\	obvam-ic intchg acting 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\OBBLM\obvam-ic-bod-batch-services\	obvam-ic bod batch server
obvam-ic-external-adapter-services	obvam-ic-external-adapter-services-{version}.war	\OBIC_SERVICES\OBBLM\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 **ANNEXURE - 1**.

# 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 **ANNEXURE - 1**.

# 6

## Logging Area

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

### Server Logs

Managed Server writes 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`

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