

# Oracle® Banking Corporate Lending Process Management Installation Guide



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# Preface

This topic contains following sub-topics:

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## Purpose

This guide would help you to install the 'Oracle Banking Corporate Lending Process Management' OBCLPM services on designated environment. It is assumed that all the prior setup is already done related with WebLogic 12.2.1.4 installation, WebLogic managed server creation and Oracle DB installation. It is recommended to use dedicated managed server for the OBCLPM services.

## Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

**Table 1 Acronyms and Abbreviations**

Abbreviation	Description
CMC	Common Core
EOD	End of Day
LDAP	Lightweight Directory Access Protocol
OBRH	Oracle Banking Routing Hub
SMS	Security Management System

## Audience

This document is intended for admin or ops-web team who are responsible for installing the Oracle Financial Services Software Limited banking products.

## Basic Actions

**Table 2 List of Basic Actions**

Action	Description
<b>Approve</b>	Click <b>Approve</b> to approve the initiated report. This button is displayed, once the user click <b>Authorize</b> .
<b>Audit</b>	Click <b>Audit</b> to view the maker details, checker details of the particular record, and record status. This button is displayed only for the records that are already created.
<b>Authorize</b>	Click <b>Authorize</b> to authorize the record created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a record. This button is displayed only for the already created records.
<b>Close</b>	Click <b>Close</b> to close a record. This action is available only when a record is created.
<b>Confirm</b>	Click <b>Confirm</b> to confirm the performed action.
<b>Cancel</b>	Click <b>Cancel</b> to cancel the performed action.
<b>Compare</b>	Click <b>Compare</b> to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>Collapse All</b>	Click <b>Collapse All</b> to hide the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>Expand All</b>	Click <b>Expand All</b> to expand and view all the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>New</b>	Click <b>New</b> to add a new record. The system displays a new record to specify the required data. (Note: The fields which are marked with Required are mandatory.)
<b>OK</b>	Click <b>OK</b> to confirm the details in the screen.
<b>Save</b>	Click <b>Save</b> to save the details entered or selected in the screen.
<b>View</b>	Click <b>View</b> to view the report details in a particular modification stage. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>View Difference only</b>	Click <b>View Difference only</b> to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click <b>Compare</b> .

## Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

## Conventions

The following text conventions are used in this document:

**Table 3 Conventions**

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	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.

## 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.

## 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 customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

## Related Resources

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

- *Oracle Banking Microservices Platform Foundation Installation Guide*
- *Configuration and Deployment Guide*
- *OBCLPM Conductor Process Installation Guide*
- *Observability Guide*

# Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

# Symbols and Icons

The following symbols and icons are used in the screens.

**Table 4   Symbols and Icons - Common**








Symbol/Icon	Function
	Minimize
	Maximize
	Close
	Perform Search
	Open a list
	Add a new record
	Navigate to the first record



Table 4 (Cont.) Symbols and Icons - Common









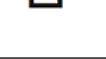
Symbol/Icon	Function
	Navigate to the last record
	Navigate to the previous record
	Navigate to the next record
	Grid view
	List view
	Refresh
	Calender
	Filter
	Copy a record

Table 4 (Cont.) Symbols and Icons - Common





Symbol/Icon	Function
	Click this icon to add a new row.
	Click this icon to delete an existing row.
	Click to view the created record.
	Click to unlock, delete, authorize or view the created record.

Table 5 Symbols and Icons - Audit Details









Symbol/Icon	Function
	A user
	Date and time
	Unauthorized or Closed status
	Authorized or Open status

Table 6 Symbols and Icons - Widget

Symbol/Icon	Function
	Open status
	Unauthorized status
	Closed status
	Authorized status

# 1

## Database Setup

Use OBCLPM service schemas and SMS schemas to setup database.

### Introduction

This section explains about setting up database related configuration for OBCLPM Installation.

### Pre-requisite

Below setup is dependent on OBCLPM service schemas and SMS schema. So, before you proceed with below setup ensure OBCLPM service schemas and SMS Schema is provided to you.

### Database Setup

To setup DB for OBCLPM schema's to be created.

**Table 1-1 Database Setup**

Service Name	Schema Required
CLMO-CMC-PARTY-SERVICES	Yes
CLMO-PARTY-SERVICES	Yes
CLMO-LOANAPPLICATION-SERVICES	Yes
CLMO-BACKOFFICE-SERVICES	Yes
CLMO-BUSINESSPROCESS-SERVICES	Yes
CLMO-BUSINESSPRODUCT-SERVICES	Yes
CLMO-HANDOFF-SERVICES	Yes
CLMO-MAINTENANCE-SERVICES	Yes
CLMO-ORCHESTRATION-SERVICES	Yes
CLMO-SYNDICATIONAPPLICATION-SERVICES	Yes
CLMO-TRANSACTIONORCHESTRATOR-SERVICES	Yes
CLMO-CONDITIONSUBSEQUENT-SERVICES	Yes
CLMO-COVENANTS-SERVICES	Yes
CLMO-BATCH-FORGETCUSTOMER-SERVICES	Yes
CLMO-NLP-PROCESSING-SERVICES	Yes
CLMO-PAYMENT-SERVICES	Yes

# 2

## Domain and Cluster Configuration

Use domain and cluster configuration to create Oracle Banking Corporate Lending Process Management domain.

### Prerequisites

1. Machine should have Java JDK11.0.14 has installed.
2. Oracle Fusion Middleware 14c 14.1.1 has to be installed on the machine.

#### Note

Before proceeding with below steps complete *Oracle Banking Microservices Platform Foundation Installation Guide*.

3. Steps for creating OBCLPM domain, properties like port numbers, names are changed based on the domain. Screenshots provided for such deviations. Domain creation process remains the same.

### Steps to Create Domain

It is recommended to have different managed server in one domain for each application. For creating domain and configuration, refer *How to create and Cluster Configuration* section in *Configuration and Deployment Guide*.

# 3

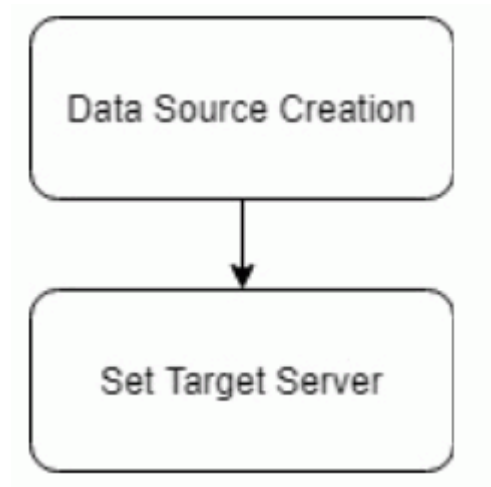
## Data Source Creation

Use database and application setup for OBCLPM services has to be performed prior to deployment setup.

### Prerequisite

The data sources for the respective micro-services must be created first before the application deployment. Each of the data source target to their corresponding servers on which the application will be deployed. The following sections explain the list of data sources required to be created for OBCLPM services and the steps to configure them in the server.

**Figure 3-1 Data Source Creation**



### Data sources List

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

**Table 3-1 Data sources List**

Data source Name	Data source JNDI	Targets
OBCLPMPRTYAPP	jdbc/OBCLPMPRTYAPP	OBCLPM Managed Server
OBCLPMLOANAPP	jdbc/OBCLPMLOANAPP	
OBCLPMBACKOFF	jdbc/OBCLPMBACKOFF	
OBCLPMBUSSPRC	jdbc/OBCLPMBUSSPRC	
OBCLPMBUSSPRD	jdbc/OBCLPMBUSSPRD	
OBCLPMHANDOFF	jdbc/OBCLPMHANDOFF	
OBCLPMMMAINTCE	jdbc/OBCLPMMMAINTCE	
OBCLPMORCHESN	jdbc/OBCLPMORCHESN	

**Table 3-1 (Cont.) Data sources List**

Data source Name	Data source JNDI	Targets
OBCLPMSYNDAPP	jdbc/OBCLPMSYNDAPP	
OBCLPMTXNORCH	jdbc/OBCLPMTXNORCH	
OBCLPMCNDSUB	jdbc/OBCLPMCNDSUB	
OBCLPMCOVMN	jdbc/OBCLPMCOVMN	
OBCLPMNLPPRCNGAPP	jdbc/OBCLPMNLPPRCNGAPP	
OBCLPMPAYAPP	jdbc/OBCLPMPAYAPP	
OBCLPM	jdbc/OBCLPM	
OBCLPMBUSSOVR	jdbc/OBCLPMBUSSOVR	

Steps to create data source in WebLogic is same for all the above except for the connection details and names.

For creating data source, refer How to create Data sources section in *Configuration and Deployment* guide.

# 4

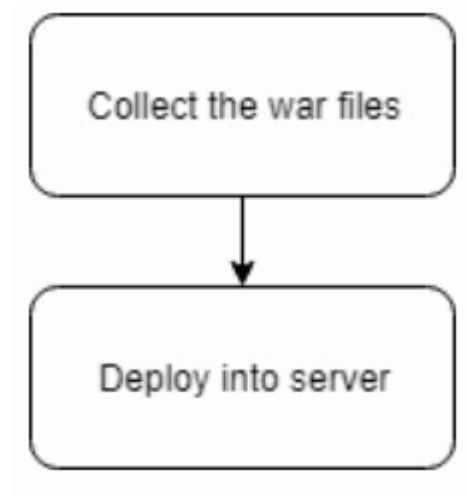
## Deployments

Use database setup and data sources creation prior to the application deployment stage.

### Pre-requisite

Each of the services corresponds to a specific war file that needs to be deployed into the server. The following sections explain the list of war files of the OBCLPM service and the steps to deploy them into the server.

**Figure 4-1 Deployments**



- Environment variables need to be set, refer *Configuration and Deployment Guide*.
- For any issues with fly configuration setup, refer *Observability Guide*.

### Deployments List

Below table gives details of the deployments required on each domain for the OBCLPM applications to run. Deploy one after other in the same given order.

#### **Note**

Prior to deploying CLMO-ORCHESTRATION-SERVICES, ensure that the conductor workflows are deployed. Refer to *Oracle Banking Corporate Lending Process Management Conductor Process Installation Guide* for deployment of conductor workflows.



**Table 4-1 Deployments List**

Application	Archive name	OSDC path	Targets
CLMO-BACKOFFICE-SERVICES	clmo-backoffice-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-backoffice-services\	OBCLPM Managed Server
CLMO-BUSINESSPROCESS-SERVICES	clmo-businessprocess-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-businessprocess-services	OBCLPM Managed Server
CLMO-BUSINESSPRODUCT-SERVICES	clmo-businessproduct-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-businessproduct-services\	OBCLPM Managed Server
CLMO-CMC-PARTY-SERVICES	clmo-cmc-party-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-cmc-party-services\	OBCLPM Managed Server
CLMO-CONDITIONSUBSEQUENT-SERVICES	clmo-conditionsubsequent-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-conditionsubsequent-services\	OBCLPM Managed Server
CLMO-COVENANTS-SERVICES	clmo-covenants-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-covenants-services\	OBCLPM Managed Server
CLMO-HANDOFF-SERVICES	clmo-handoff-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-handoff-services	OBCLPM Managed Server
CLMO-LOANAPPLICATION-SERVICE	clmo-loanapplication-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-loanapplication-services\	OBCLPM Managed Server
CLMO-MAINTENANCE-SERVICES	clmo-maintenance-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-maintenance-services\	OBCLPM Managed Server
CLMO-ORCHESTRATION-SERVICES	clmo-orchestration-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-orchestration-service	OBCLPM Managed Server
CLMO-PARTY-SERVICES	clmo-party-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-party-services\	OBCLPM Managed Server
CLMO-SYNDICATIONAPPLICATION-SERVICES	clmo-syndicationapplication-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-syndicationapplication-services\	OBCLPM Managed Server
CLMO\TRANSACTION ORCHESTRATOR-SERVICES	clmo-transactionorchestrator-services-x.x.x.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-transactionorchestrator-services\	OBCLPM Managed Server

**Table 4-1 (Cont.) Deployments List**

Application	Archive name	OSDC path	Targets
app-shell	obclpm-app-shell-14.x.0.0.0.war	{Unzip OSDC Package} \\UI\\obclpm-app-shell	OBCLPM Managed Server

To deploy application, refer *How to deploy* section in *Configuration and Deployment Guide*.

# 5

## Restarts and Refresh

Use restart for restarting all the managed servers and refresh for refreshing the configuration properties.

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

To restart the server, *How to restart* section refer to *Configuration and Deployment Guide*.

# 6

## Logging Area

Use logging area for deployment of Common Core Applications in WebLogic server.

### Introduction

This section talks about the logs area where after deployment of Common Core Applications in WebLogic server.

### Logging Area

Common Core Application writes logs in the below area of the server-

```
<WEBLOGIC_DOMAIN_CONFIG_AREA>/servers/OBCLPAPP/logs/OBCLPAPP.out
```

Let's assume a domain has been created OBCLPM\_domain with managed\_server name called OBCLPM in the following area of the server

```
/scratch/oracle/middleware/user_projects/domains/CommonCore_domain
```

Logging area for Common core would be

```
/scratch/oracle/middleware/user_projects/domains/ OBCLPM_domain/servers/  
OBCLPMAPP/logs/OBCLPMAPP.out
```

# 7

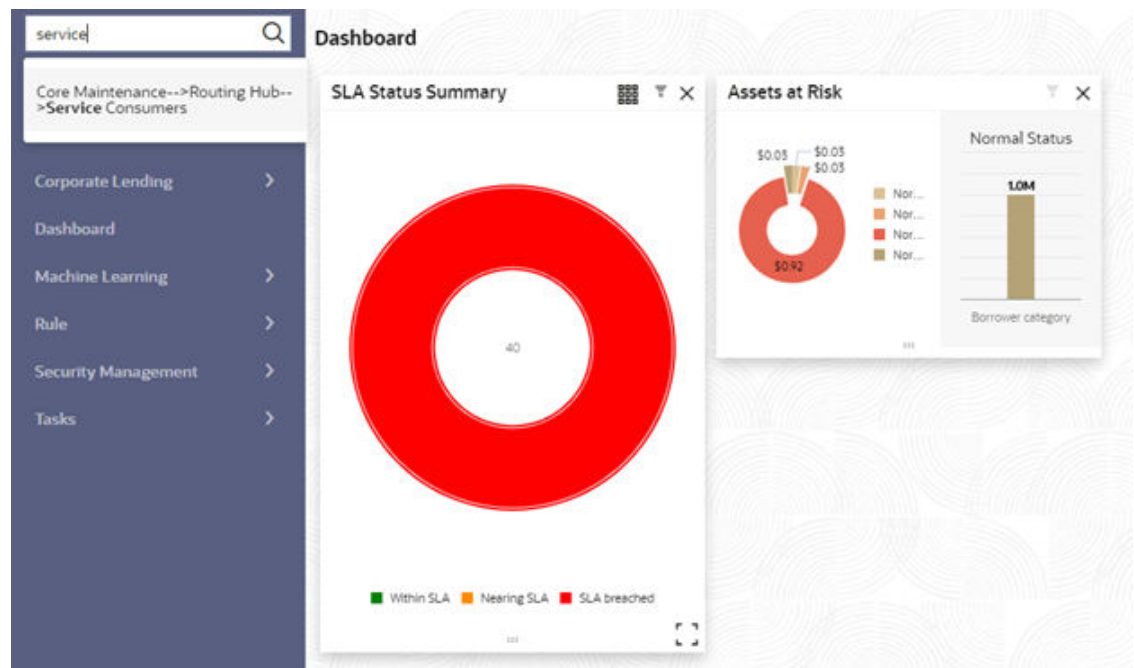
## Integration Routing using OBRH

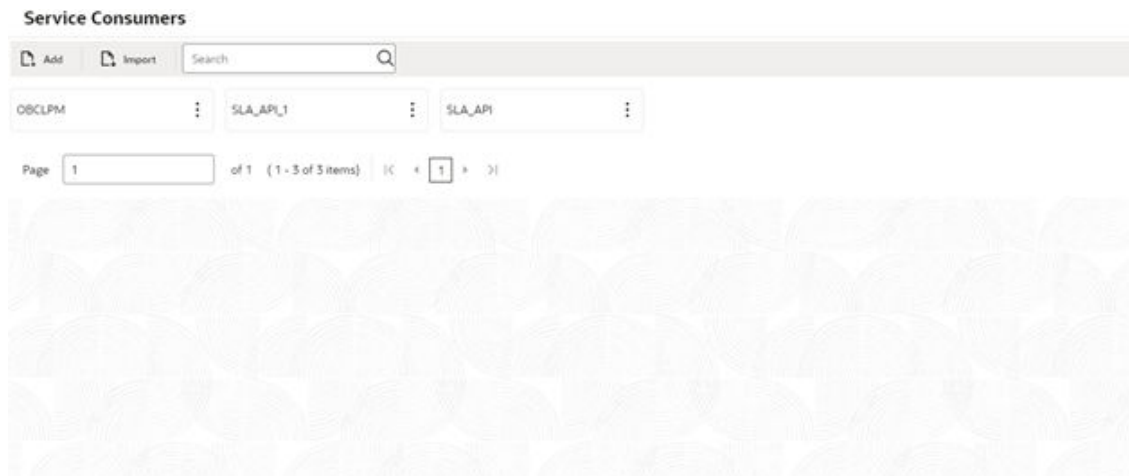
Use integration of Oracle Banking Corporate Lending Process Management with Oracle Banking Routing Hub (OBRH) product for seamless and standardized integration.

### OBCLPM as service consumer in OBRH

Following landing page is where OBCLPM would be registered as service consumer of any internal / external integration touch points.

**Figure 7-1 OBRH Dashboard**

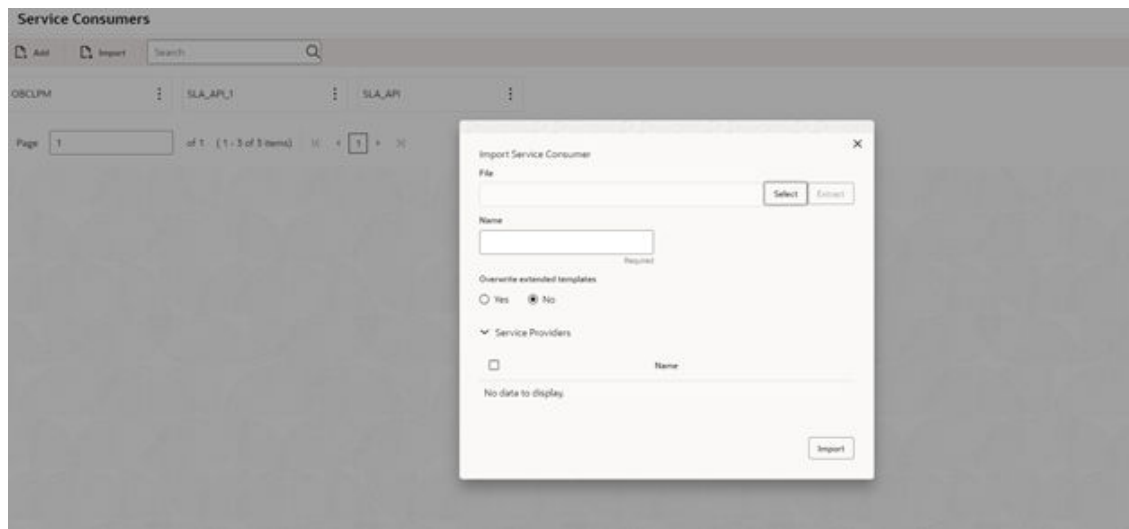


**Figure 7-2 OBRH Dashboard Service Consumers**

### Importing OBRH configuration

Importing OBCLPM configurations by clicking import in below page and then select the json file from the below path and click **Extract**.

OBCLPM\_14.4.0.1.0\_ROLLED\_UP/OBRH\_CONFIGURATION/OBCLPM\_consumer.json

**Figure 7-3 Import Service Consumer**

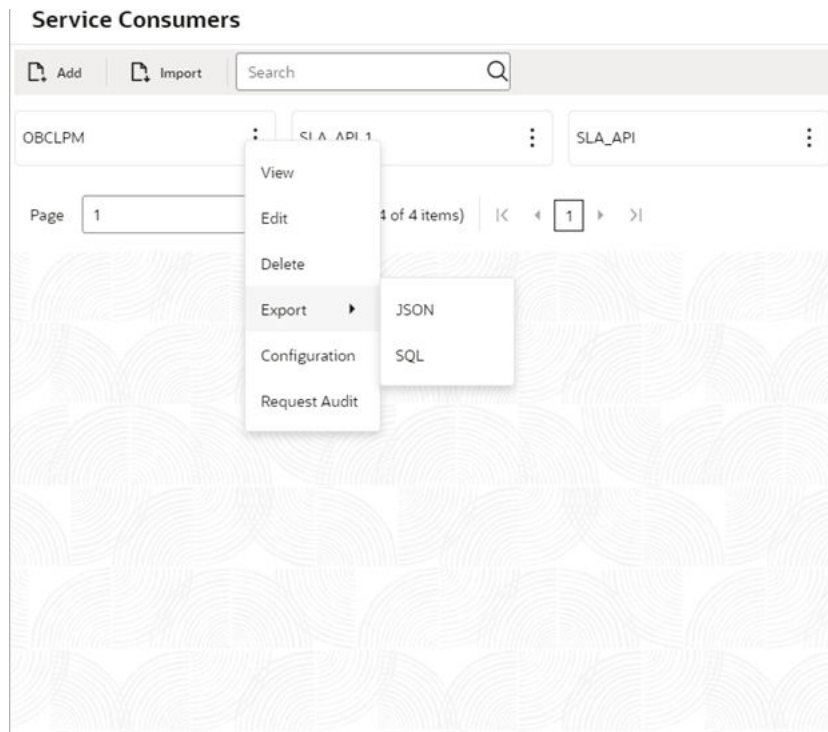
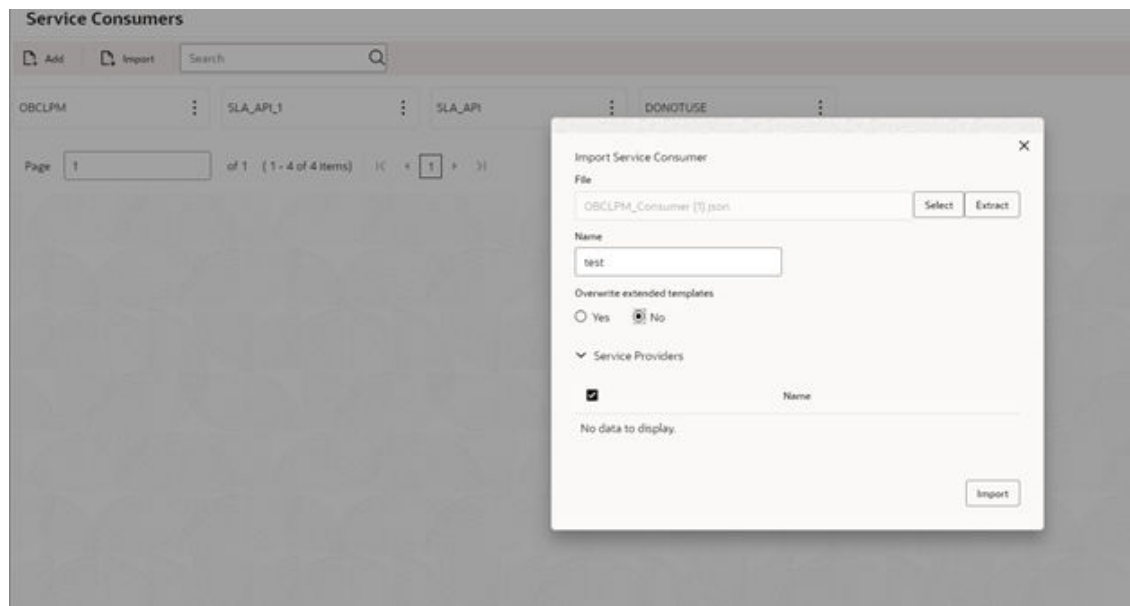
**Figure 7-4 Import Service Consumer Success Message****Figure 7-5 OBCL Import**

Figure 7-6 Import Service Consumers Confirm

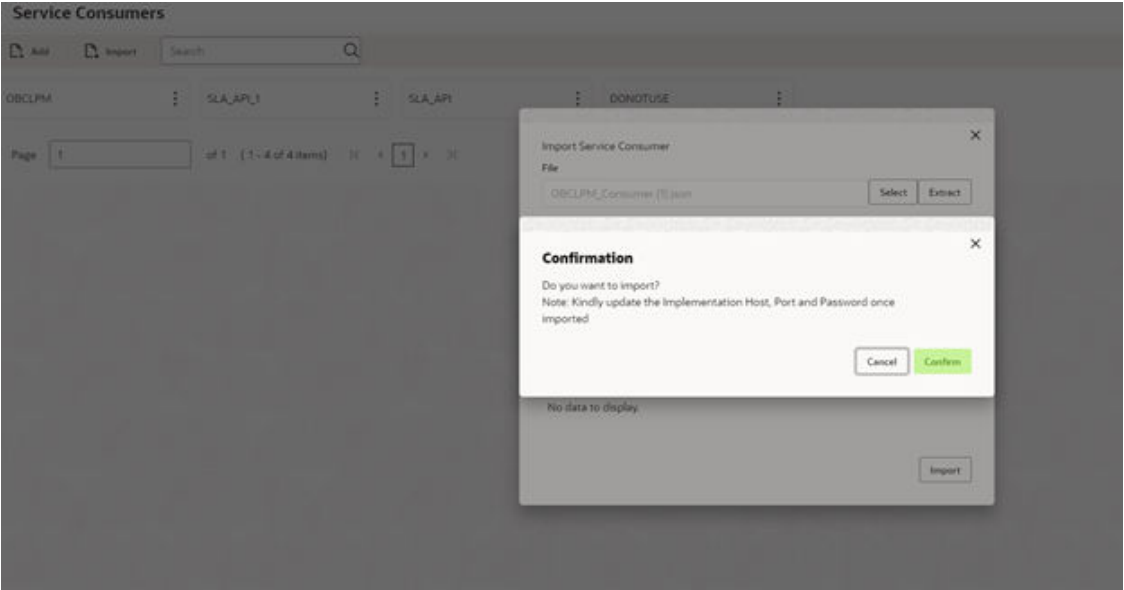


Figure 7-7 Import Service Consumers Success

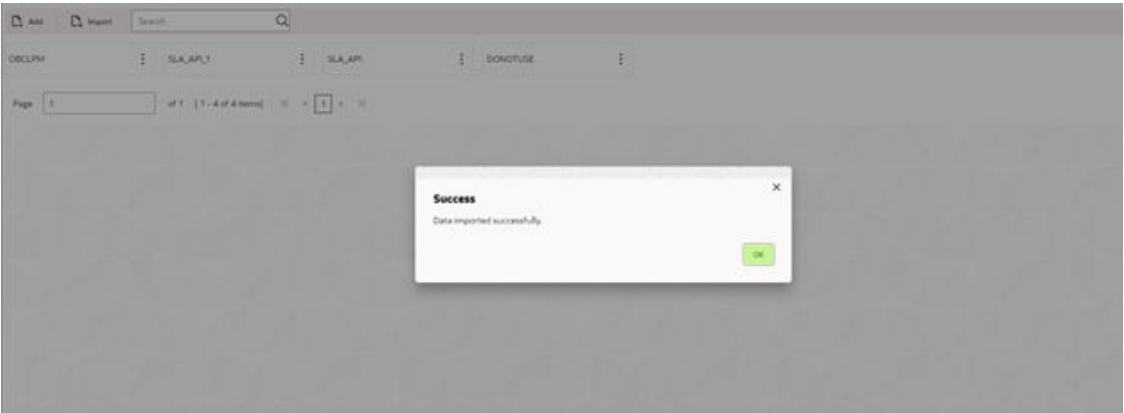
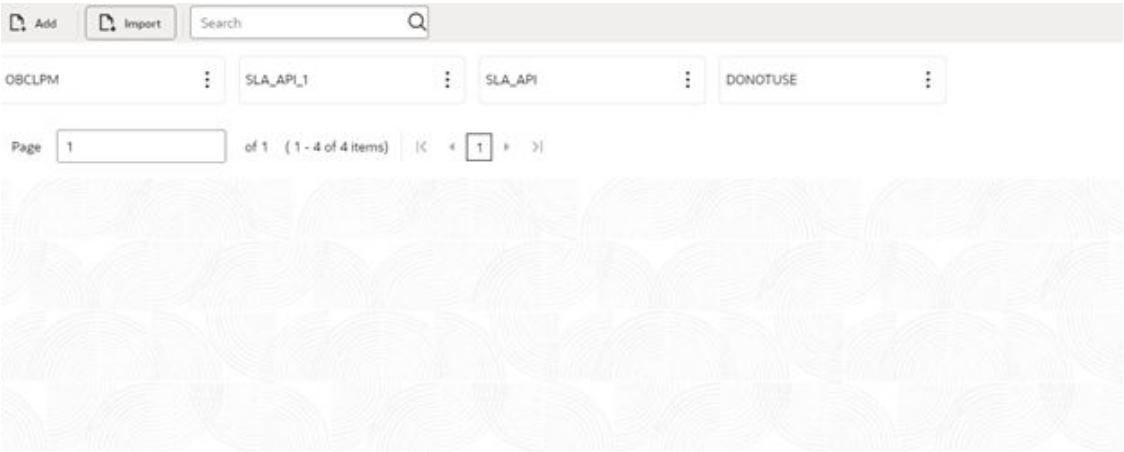


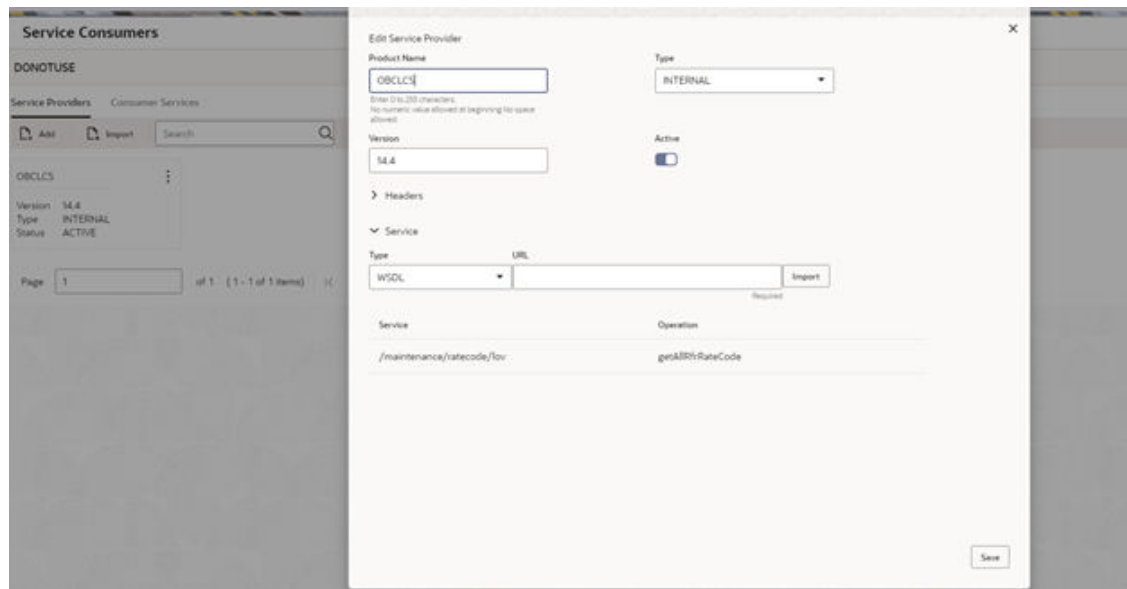
Figure 7-8 Service Consumers





After successful import of OBRH configuration for OBCLPM, update the host and port as per requirement for every implementation of configured service provider.

**Figure 7-9 Edit Implementation**



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