

Installation Guide  
Oracle Banking Corporate Lending Process  
Management Release 14.5.3.0.0  
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## Installation Guide

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## 1.1 Introduction

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.

## 1.2 Audience

This document 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

1. CLMO-CMC-PARTY-SERVICES
2. CLMO-PARTY-SERVICES
3. CLMO-LOANAPPLICATION-SERVICES
4. CLMO-BACKOFFICE-SERVICES
5. CLMO-BUSINESSPROCESS-SERVICES
6. CLMO-BUSINESSPRODUCT-SERVICES
7. CLMO-HANDOFF-SERVICES
8. CLMO-MAINTENANCE-SERVICES
9. CLMO-ORCHESTRATION-SERVICES
10. CLMO-SYNDICATIONAPPLICATION-SERVICES
11. CLMO-TRANSACTIONORCHESTRATOR-SERVICES
12. CLMO-CONDITIONSUBSEQUENT-SERVICES
13. CLMO-COVENANTS-SERVICESUI
14. app-shell

---

## 2. Database Setup

### 2.1 Introduction

In this section you are going to setup database related configuration for OBCLPM Installation.

### 2.2 Pre-requisite

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

### 2.3 Database Setup

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

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

---

## 3. 1. Domain and Cluster Configuration

### 3.1 OBCLPM Domain Configuration

#### 3.1.1 Prerequisites

1. Machine should have Java JDK1.8.0\_241 has installed.
2. Oracle Fusion Middleware 12cR2 12.2.1.4.0 has to be installed on the machine.  
[Note: Before proceeding with below steps complete Plato installation guided.]
3. Steps for creating OBCLPM domain, properties like port numbers, names will be changing based on the domain. Screenshots provided for such deviations. Domain creation process remains the same.

#### 3.1.2 Steps to Create Domain

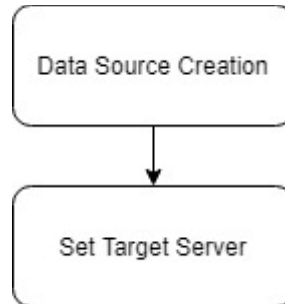
It is recommended to have different managed server in one domain for each application. For Creating Domain and Configuration please refer to ANNEXURE-1 "**How to create and Cluster Configuration**".

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## 4. Data Sources Creation

### 4.1 Prerequisite

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



### 4.2 Data sources List

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

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	
OBCLPMSYNDAPP	jdbc/OBCLPMSYNDAPP	
OBCLPMTXNORCH	jdbc/OBCLPMTXNORCH	
OBCLPMCNDSUB	jdbc/OBCLPMCNDSUB	
OBCLPMCOVMN	jdbc/OBCLPMCOVMN	

Steps to create data source in WebLogic is same for all the above except for the connection details and names. Check the section (4.3 - Creating Data source ) to understand data source creation.

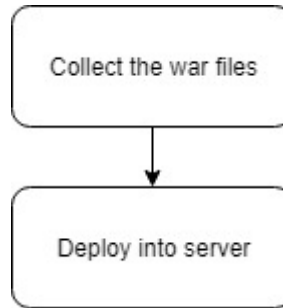
### 4.3 Creating Data source

For creating data source in please refer ANNEXURE-1 “How to create Data sources section”

## 5. Deployments

### 5.1 Pre-requisite

The database setup and data sources creation have to be performed prior to the application deployment stage. 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.



Environment variables need to be set. Refer 'ANNEXURE-1'.  
 For any issues with fly configuration setup, Refer 'ANNEXURE-2'.  
 For OBCLPM environment variables setup, Refer 'OBCLPM - Environment Variable Setup Guide'.

### 5.2 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\_14.4.0.0.0\_In\_stallation\_Guide' for deployment of conductor workflows.

Application	Archive name	OSDC path	Targets
CLMO-BACKOFFICE-SERVICES	clmo-backoffice-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-backoffice-services\	OBCLPM Managed Server
CLMO-BUSINESSPROCESS-SERVICES	clmo-businessprocess-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-businessprocess-services\	OBCLPM Managed Server
CLMO-BUSINESSPRODUCT-SERVICES	clmo-businessproduct-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-businessproduct-services\	OBCLPM Managed Server
CLMO-CMC-PARTY-SERVICES	clmo-cmc-party-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-cmc-party-services\	OBCLPM Managed Server
CLMO-CONDITIONSUBSEQUENT-SERVICES	clmo-conditionsubsequent-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\clmo-conditionsubsequent-services\	OBCLPM Managed Server



CLMO-COVENANTS-SERVICES	clmo-covenants-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-covenants-services\	OBCLPM Managed Server
CLMO-HANDOFF-SERVICES	clmo-handoff-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-handoff-services\	OBCLPM Managed Server
CLMO-LOANAPPLICATION-SERVICE	clmo-loanapplication-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-loanapplication-services\	OBCLPM Managed Server
CLMO-MAINTENANCE-SERVICES	clmo-maintenance-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-maintenance-services\	OBCLPM Managed Server
CLMO-ORCHESTRATION-SERVICES	clmo-orchestration-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-orchestration-services\	OBCLPM Managed Server
CLMO-PARTY-SERVICES	clmo-party-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-party-services\	OBCLPM Managed Server
CLMO-SYNDICATIONAPPLICATION-SERVICES	clmo-syndicationapplication-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-syndicationapplication-services\	OBCLPM Managed Server
CLMO-TRANSACTIONORCHESTRATOR-SERVICES	clmo-transactionorchestrator-services-5.0.0.war	{Unzip OSDC Package} \OBCLPM_SERVICES\ clmo-transactionorchestrator-services\	OBCLPM Managed Server
app-shell	obclpm-app-shell-14.4.0.0.war	{Unzip OSDC Package} \UI\obclpm-app-shell	OBCLPM Managed 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, restart all 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 Common Core Applications in WebLogic server.

#### 7.1.1 Logging Area:-

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

<WEBLOGIC\_DOMAIN\_CONFIG\_AREA>/servers/OBCLPAPP/logs/OBCLPAPP.out

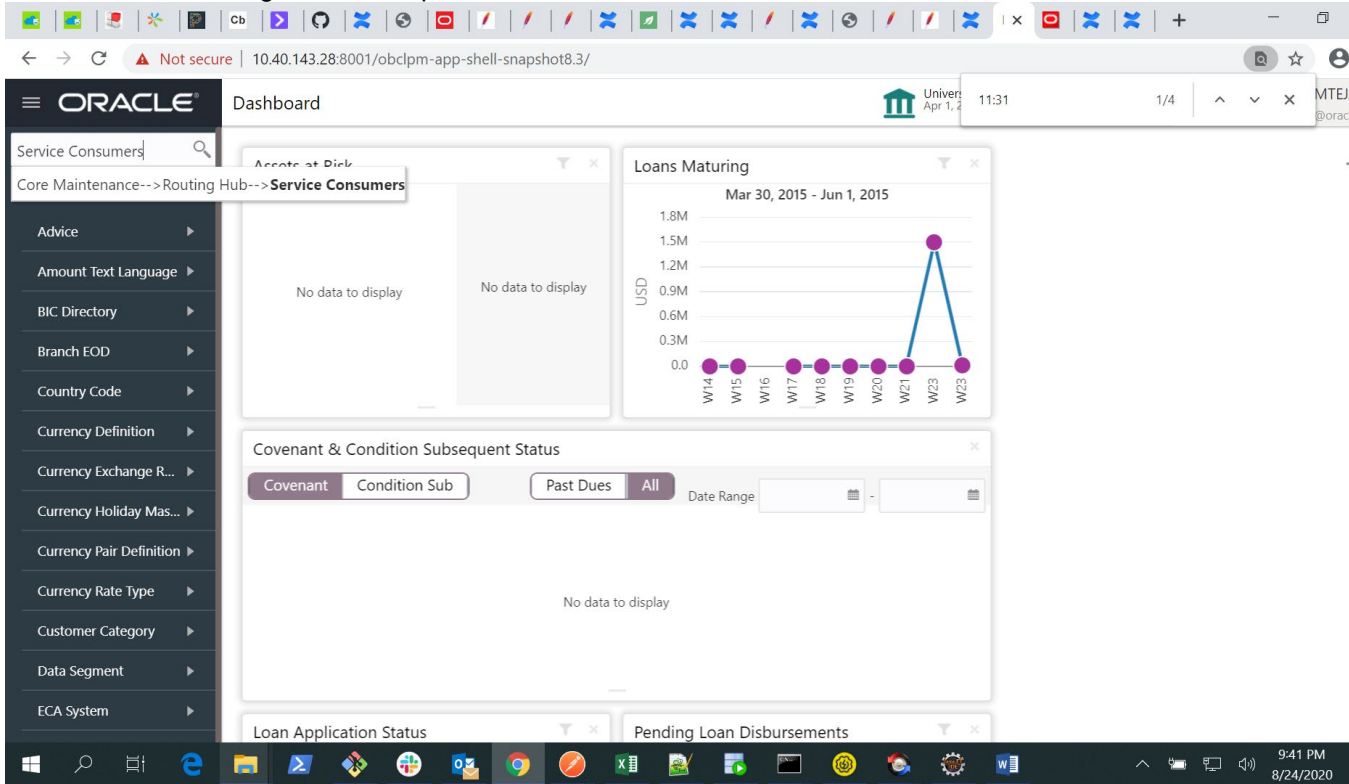
Let's assume a domain has been created **OBCLPM\_domain** with **managed\_server** name called **OBCLPM** in the following area of the server

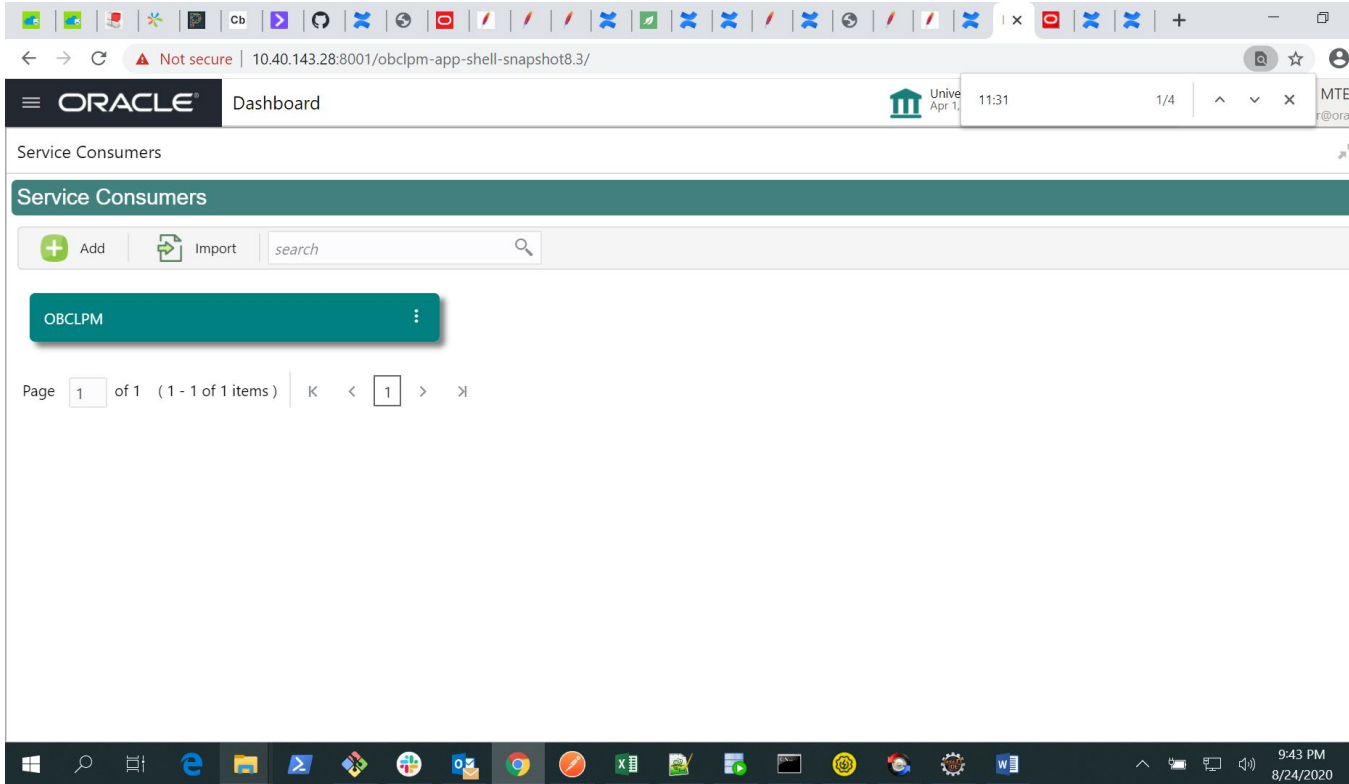
/scratch/oracle/middleware/user\_projects/domains/**CommonCore\_domain**. Logging area for Common core would be /scratch/oracle/middleware/user\_projects/domains/**OBCLPM\_domain/servers/OBCLPMAPP/logs/OBCLPMAPP.out**

# 8. Integration Routing using OBRH

## 8.1 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





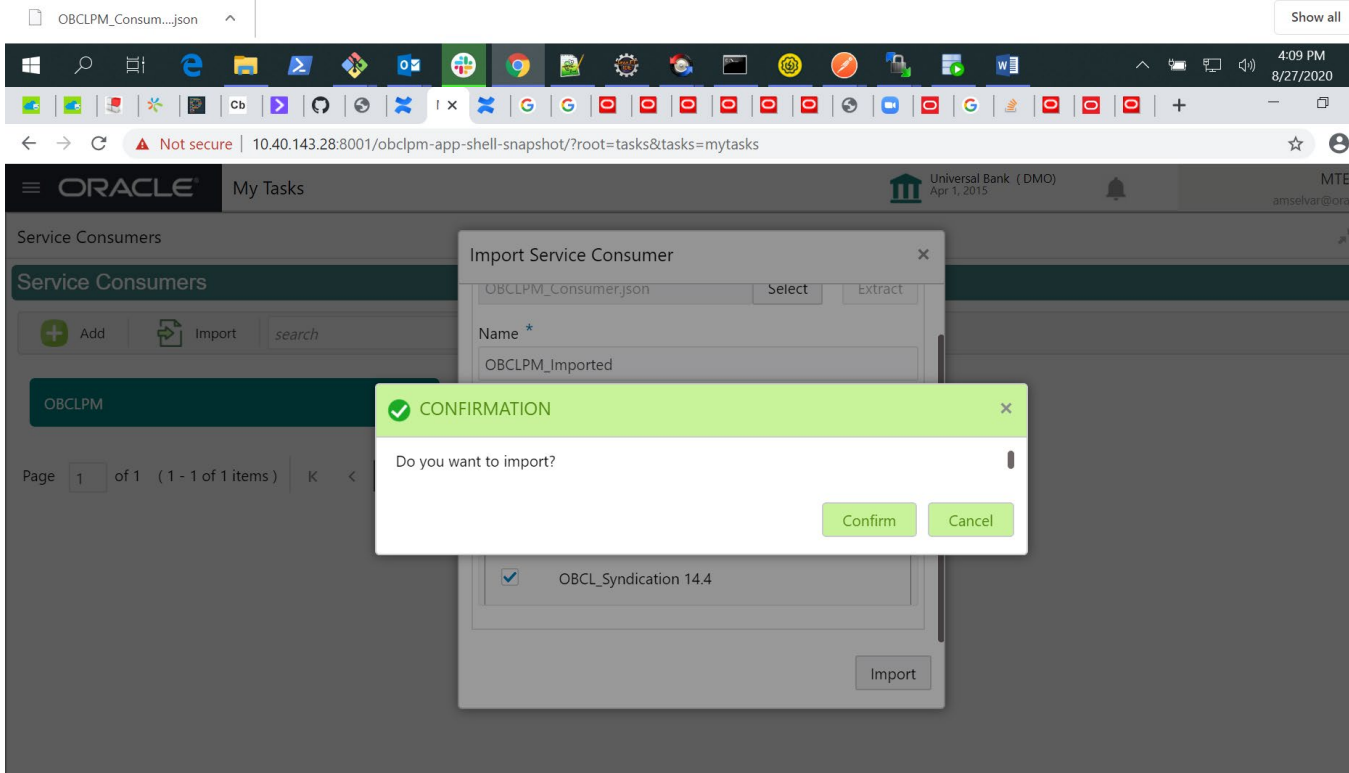
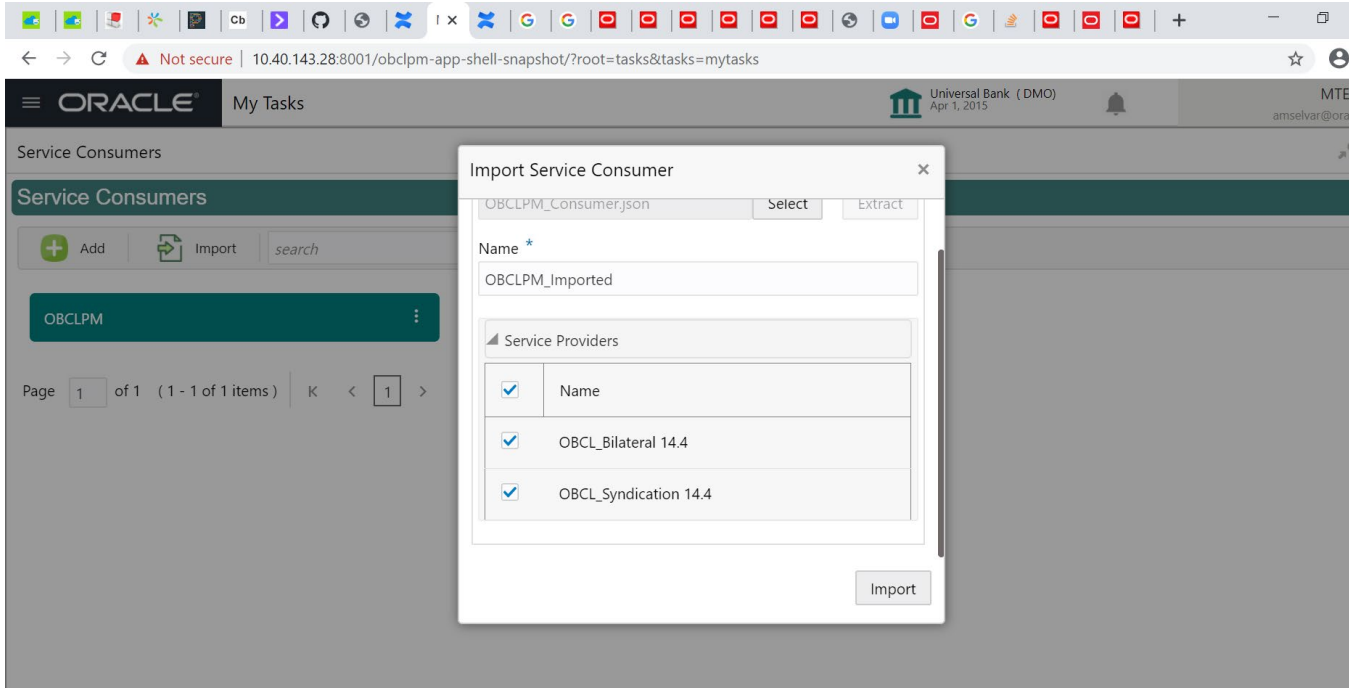
## 8.2 Importing OBRH configuration

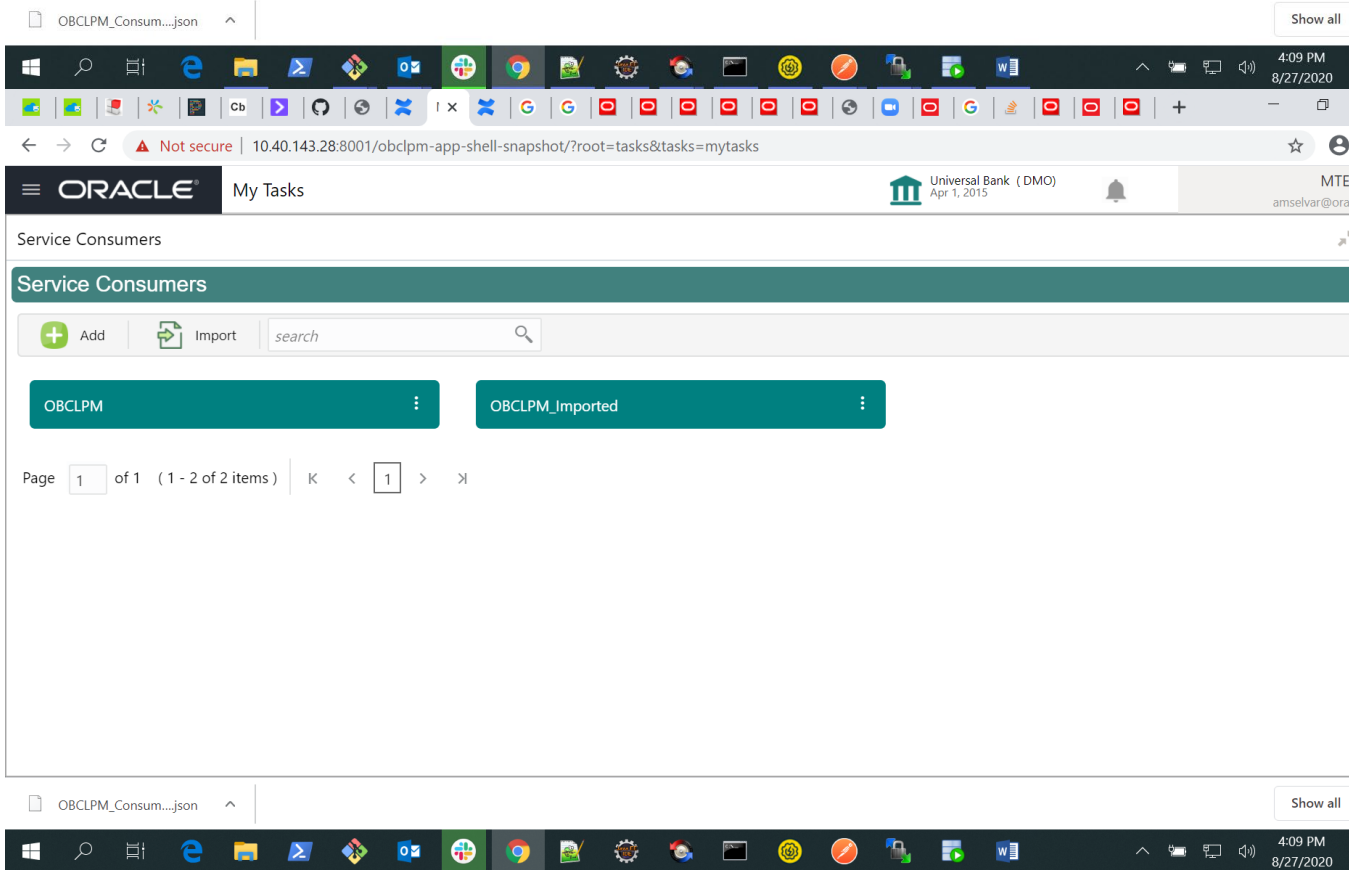
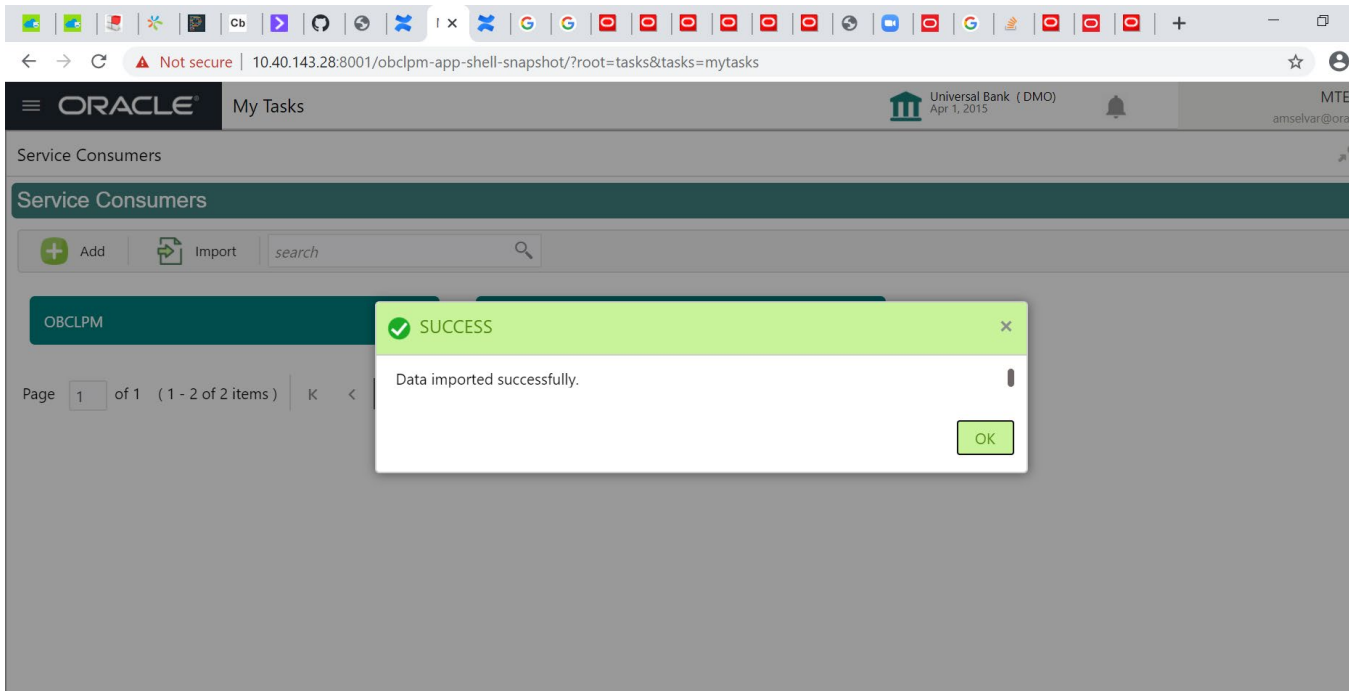
Importing OBCLPM configurations by clicking import in below page and then select the json file from the below path and click on 'Extract'.

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

The screenshot shows the Oracle Service Consumers interface. The main page displays a table with one entry: OBCLPM. An 'Import Service Consumer' dialog box is open, showing the file 'OBCLPM\_Consumer.json' selected. The 'Name' field is empty. Below, the 'Service Providers' section is currently empty with the message 'No data to display.' The 'Import' button is visible at the bottom right of the dialog.

This screenshot shows the same Oracle Service Consumers page, but with a success message overlay. The message box is green and white, stating 'SUCCESS' and 'Data extracted successfully.' with an 'OK' button. In the background, the 'Import Service Consumer' dialog box is still open, but the 'Service Providers' section now contains two entries: 'OBCL\_Bilateral 14.4' and 'OBCL Svndication 14.4', both with unchecked checkboxes.





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



Service Consumers

OBCLPM > Service Providers > OBCL\_Bilateral 14.4

Implementation

+ Add search

Actions	Name	Description	Host	Port
:	OBCL_Bilateral		whf00bmb	7855

Page 1 of 1 (1 - 1 of 1 items) K < 1 > X

Edit Implementation

Name \*   Default

Description \*

Host \*  Port \*

Authentication

Save