

# Oracle® Banking Corporate Lending Process Management Oracle Conductor Process Installation Guide



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# Preface

This topic contains following sub-topics:

- [Introduction](#)
- [Audience](#)
- [List of Topics](#)
- [Related Resources](#)

## Introduction

This guide would help you to install the Oracle Banking Corporate Lending Process Management Conductor based process on designated environment. It is assumed that all the prior setup is already done related to Netflix Conductor.

## Audience

This manual is intended for the following User/User Roles:

- Relationship Managers (RMs)
- Credit Risk Mangers (CRMs)
- Legal
- Back end operation
- Other loan executive staffs in charge of maintaining the loan accounts in the bank.
- WebLogic admin or ops-web team who are responsible for installing OFSS Banking Products.

## List of Topics

This manual is organized into the following topics.

**Table 1 List of Topics**

Topics	Description and Cross References
Preface	This topic provides the general information about the manual. It also list the various topics covered in the User Manual.
Deployments	This topic helps you to deploy Oracle Banking Corporate Lending Process Management (OBCLPM) and Conductor Process.

## Related Resources

For further information on conductor process installation of Oracle Banking Corporate Lending Process Management application, refer to the following manuals.

- *Oracle Banking Corporate Lending Process Management Installation Guide*
- *Oracle Banking Microservices Platform Foundation Installation Guide*

# 1

## Deployment of Processes

This topic contains following sub-topics.

- [OBCLPM Processes](#)  
Use conductor processes to deploy in the Oracle Banking Corporate Lending Process Management.
- [Steps to Deploy Conductor Process](#)  
Use steps to deploy conductor process to deploy common and all workflow specific task definitions.

### 1.1 OBCLPM Processes

Use conductor processes to deploy in the Oracle Banking Corporate Lending Process Management.

Deploy the following list of conductor processes for Oracle Banking Corporate Lending Process Management (OBCLPM).

In conductor workflows are defined using a JSON based DSL and includes a set of tasks that are processed as part of the workflows. The tasks are either system tasks or simple tasks (also known as worker tasks). These simple/worker tasks are implemented by application(s) and run in a separate environment from Conductor. These tasks talk to Conductor server through RESTclient. In OBCLPM, for every workflow a workflow definition json (For example, LoanAmendment.JSON) file and if required its own worker tasks definition json (TaskDefinitions.JSON) file is maintained. In addition, there is a SharedSimpleTaskDefinitions.JSON file having task definitions that are used across different workflows.

**Table 1-1 OBCLPM Processes**

S.No	OBCLPM Processes	Process Specific Tasks(if any)
1	LOAN ORIGINATION	CLMO_FA_LNORGN_MRTRY
2	FINANCIAL AMENDMENT	CLMO_FA_LNRSTR_AMRTY
3	NON FINANCIAL AMENDMENT	CLMO_FA_LNRSTR_AMRTY
4	LOAN PAYMENT	CLMO_FA_LNPMNT_HRTRY
5	ROLLOVER	CLMO_FA_LNRSTR_AMRTY
6	RATE QUOTATION	CLMO_FA_LNRQTN_DRADN
7	DRAFT PROPOSAL	CLMO_FA_DRFTPR_AGRNR
8	NLP PROCESS	CLMO_FA_NLPPRC_ENRICH_NLPDE TAILS,CLMO_FA_NLPPRC_UPDATE_ TXNLOGS,CLMO_FA_NLPPRC_INITIA TE_CLMO_APPLICATION
9	RATE QUOTATION PROCESS	CLMO_FA_LNRQTN_CONTRACT_RE VERSAL,CLMO_FA_LNRQTN_INIT_L NORG
10	ROLLOVER PROCESS	CLMO_FA_ROLVAU_HANDOFF

**Table 1-1 (Cont.) OBCLPM Processes**

S.No	OBCLPM Processes	Process Specific Tasks(if any)
11	PREMANDATE ARRANGER	CLMO_FA_SNPMDN_EXEST
12	PREMANDATE CO ARRANGER	CLMO_FA_SNPMDN_TREXD
13	CONSOLIDATION ROLLOVER	CLMO_FA_SYCNRL_AMRTY
14	ROLLOVER	CLMO_FA_SYSPRL_AMRTY
15	PAYMENT	CLMO_FA_SNPMDN_HRTRY
16	POST MANDATE ARRANGER	CLMO_FA_SNPOAR_RCCPS
17	POST MANDATE AGENT	CLMO_FA_SNPOAG_APCPS
18	PARTICIPANT PROCESS	CLMO_FA_SNPMDN_RCVCS
19	OPERATIONS ENRICHMENT	CLMO_FA_SNPMDN_APCPS
20	AGENCY DRAWDOWN	CLMO_FA_SNPMDN_RHDOF
21	PARTICIPANT DRAWDOWN	CLMO_FA_SNPMDN_HANDOFF
22	DRAWDOWN AMENDMENT	CLMO_FA_SNPMDN_HANDOFF
23	PARTICIPANT TRANSFER	CLMO_FA_SNPMDN_HANDOFF
24	RESTRUCTURE	CLMO_FA_SNPMDN_HANDOFF
25	BULK PAYMENT	CLMO_FA_SNPMDN_HANDOFF
26	TRANCHE MARGIN AMENMENT	CLMO_FA_SNPMDN_HANDOFF
27	TRANCHE AMENDMENT	CLMO_FA_SNPMDN_HANDOFF
28	TRANCHE NON FIN AMENDMENT	CLMO_FA_SNPMDN_HANDOFF
29	DRAWDOWN	CLMO_FA_SNPMDN_MRTRY

**Table 1-2 Common TaskDefinitions**

S.No	Common TaskDefinitions(Used across different OBCLPM processes)
1.	FA_KYC_CHECKER
2.	FA_CAMS_HANDOFF
3.	FA_LNORGN_HANDOFF
4.	FA_STATUS_UPDATE
5.	FA_RISK_APPROVAL
6.	FA_INITIATE_OPS_ENRICH
7.	FA_BORROWER_ONBOARDING
8.	FA_MILESTONE_CHECK
9.	FA_INITIATE_QE
10.	FA_SNPMDN_HANDOFF

## 1.2 Steps to Deploy Conductor Process

Use steps to deploy conductor process to deploy common and all workflow specific task definitions.

### Pre-Requisite

**PLATO-O** and **PLATO-ORCH-SERVICE** services should be up and registered in the Eureka registry.

For the installation of **PLATO-O** and **PLATO-ORCH-SERVICE**, refer to *Plato Infrastructure Services Installation Guide*.

### Post-Requisite

**CLMO-ORCHESTRATION-SERVICE** should be deployed after registering common task definitions and all workflow specific task definitions (total of 26 task definitions listed above) as this service would have worker implementation for all the simple tasks. Presently this service has 26 worker implementations with 36 threads configured for worker coordinator to manage these workers.

 **Note:**

Steps to deploy a process remains the same for all the process files.

In OBCLPM, for every workflow a workflow definition json (e.g. LoanDraftProposal.JSON) file and if required its own worker tasks definition json (TaskDefinitions.JSON) file will be maintained. Also, there is a SharedSimpleTaskDefinitions.JSON file having simple task definitions that are used across all workflows. To deploy all or any workflow definition.

1. Firstly shared simple tasks definitions should be done. for that below endpoint can be invoked from postman tool with header and payload as described below.

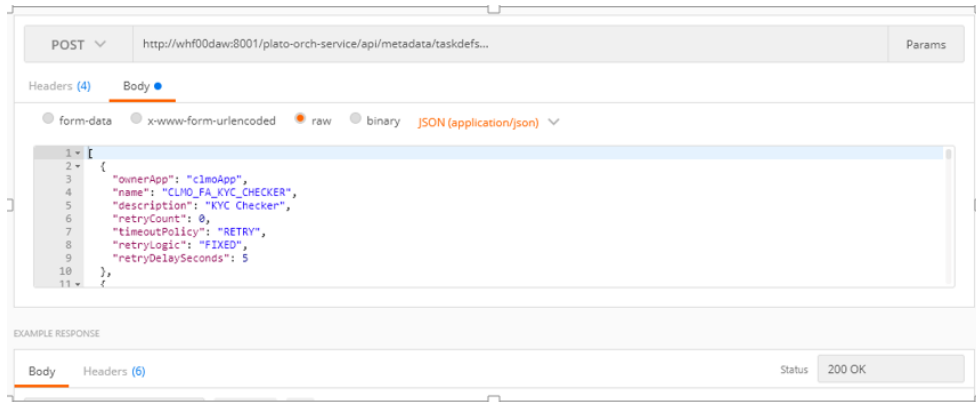
 **Note:**

The host name and port number of the PLATO-ORCH-SERVICE from the eureka registry should be used in this endpoint

```
Task definitions end point:  
http://whf00mdj:9009/plato-orch-service/api/metadata/taskdefs  
HTTP Method: POST  
Header parameters:  
Content-Type:application/json  
appId:platoorch  
branchCode:004  
userId:USER1  
Payload:SharedSimpleTaskDefinitions.JSON content
```

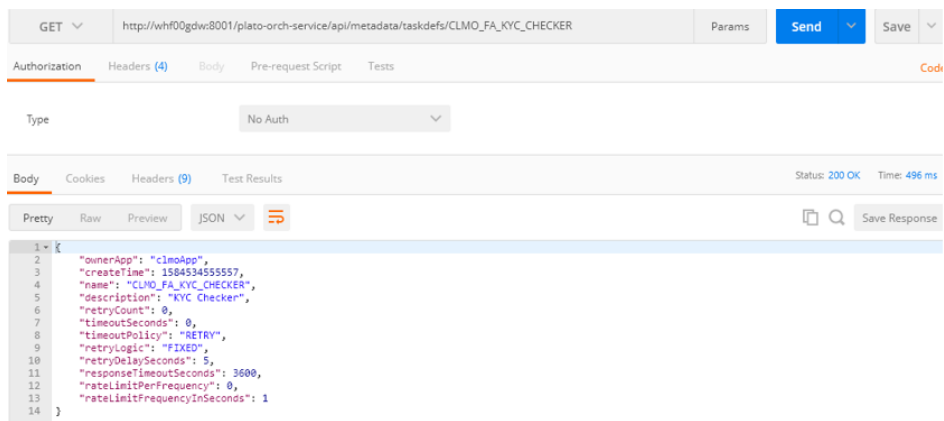


**Figure 1-1 HTTP Method: POST**



2. To verify if any of the task is registered , `http://whf00mdj:9009/plato-orch\u0002service/api/metadata/taskdefs/{taskname}` endpoint can be invoked with GET HTTP Method as shown below.

**Figure 1-2 GET HTTP Method**



3. Next workflow specific task definitions should be done. for that use the task definition endpoint mentioned at step 1 and provide workflows specific TaskDefinitions.JSON file content as payload.
4. Next workflow definitions should be done. for that use the workflow definition endpoint mentioned below and provide workflows definition json (e.g. LoanDraftProposal.JSON) file content as payload.

k definitions end point:

`http://whf00mdj:9009/plato-orch-service/api/metadata/workflow`

HTTP Method: POST

Header parameters:

Content-Type:application/json

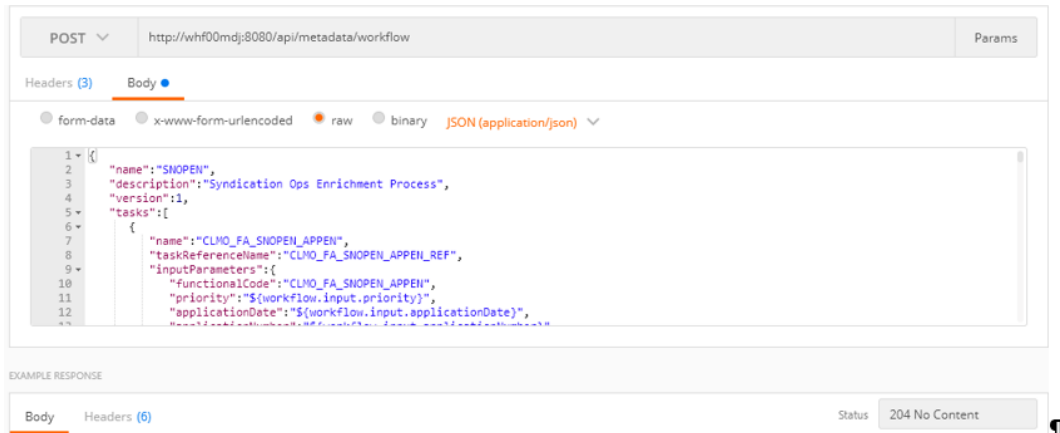
appId:platoorch

branchCode:004

userId:USER1

Payload: LoanDraftProposal.JSON content

**Figure 1-3 Post HTTP Method**



- To verify if the workflow is registered , `http://whf00mdj:9009/plato-orch\u0002service/api/metadata/workflow/DRFTPR?version=1` endpoint can be invoked with GET HTTP Method and check if workflow definitions is available. The workflow name to be used in this GET can be referred from name property workflow definition json. Similarly, all the workflow definitions can be registered and verified one by one.

**Figure 1-4 Get HTTP Method**

