

Oracle® Banking Origination Installation Guide



Release 14.8.1.0.0

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

Oracle Banking Origination Installation Guide, Release 14.8.1.0.0

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Preface

This topic contains the following sub-topics:

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Purpose

This guide helps the user to perform the initial setup for Oracle Banking Origination application. The procedures given in this document must be completed to run the application successfully.

Audience

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

Documentation Accessibility

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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 Common Core Services Installation Guide
- Oracle Banking Common Core User Guide
- Oracle Banking Microservices Platform Foundation Installation Guide
- Oracle Banking Origination License Guide
- Configuration and Deployment Guide
- Operations User 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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which user supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that user enter.

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.

Acronyms and Abbreviations

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

Table Acronyms table

Abbreviation	Description
DDL	Data Definition Language
JDBC	Java Database Connectivity

Table (Cont.) Acronyms table

Abbreviation	Description
JDK	Java Development Kit
LLM	Large Language Model
ML	Machine Language
OBMA	Oracle Banking Microservices Architecture
OCR	Optical Character Recognition
OSDC	Oracle Software Delivery Cloud
RPM	Red Hat Package Manager
UI	User Interface

1

Overview

This installation guide allow user to install the below mentioned Oracle Banking Origination services, UI, process flow in same order. Also Oracle Banking Origination services require the list of Common Core services below.

Common Core Services

1. cmc-account-services
2. cmc-additional-attributes-services
3. cmc-advice-services
4. cmc-base-services
5. cmc-batch-services
6. cmc-branch-services
7. cmc-businessoverrides-services
8. cmc-checklist-services
9. cmc-checklistmanagement-services
10. cmc-comments-services
11. cmc-currency-services
12. cmc-customer-services
13. cmc-datasegment-services
14. cmc-document-services
15. cmc-documentmanagement-services
16. cmc-external-chart-account
17. cmc-external-system-services
18. cmc-mis-services
19. cmc-ml-indb-services
20. cmc-obcbs-services
21. cmc-obrh-kafka-consumer
22. cmc-obrh-service
23. cmc-opds-services
24. cmc-priority-services
25. cmc-processcode-service
26. cmc-report-services
27. cmc-resource-segment-orchestrator-service
28. cmc-resourceclass-services
29. cmc-screenclass-services

30. cmc-sequencegenerator-services
31. cmc-settlements-services
32. cmc-sla-services
33. cmc-transactioncontroller-services
34. cmc-txn-code-services
35. cmc-limits-collaterals-services

Product Manufacturing Unit Services

1. pmu-bd-maintenance-service

Oracle Banking Origination Services

1. obremo-rpm-maintenance-services
2. obremo-rpm-process-driver-services
3. obremo-rpm-businessprocess-services
4. obremo-rpm-businessproductdetails-services
5. obremo-rpm-cmn-applicantservices
6. obremo-rpm-cmn-hostservices
7. obremo-rpm-cmn-scorecardservices
8. obremo-rpm-lo-loanapplications
9. obremo-rpm-sav-account-service
10. obremo-rpm-term-deposit-service
11. obremo-rpm-projection-services
12. obremo-rpm-batch-services
13. obremo-rpm-cmn-ipaservices
14. obremo-rpm-cmn-collateralservices
15. obremo-rpm-creditcardapplication
16. obremo-rpm-rule-configurationservice
17. obremo-rpm-cmn-mlservice

User Interface

UI war is split into individual component server war files. All the component server war files should be deployed in the same managed server.

For Common Core war files, deploy the war files mentioned below:

1. app-shell
2. cmc-component-server
3. moc-component-server
4. sms-component-server

Product Manufacturing Unit

For Product Manufacturing Unit war files, deploy the war file mentioned below:

1. pmu-component-server

For Domain Specific war files, deploy the individual component server war files mentioned below:

- oboflo-component-server

Oracle Banking Origination Process Workflow

1. APPENTRYHANDOFF.json
2. BNPLACCOPEN.json
3. CASAHOSTORCH
4. CREDITCARD
5. CURRENTACCOUNT
6. CURRENTACCOUNTUS
7. EDUCATIONLOAN
8. HOMELOAN
9. HOSTORCHESTRATOR
10. INITIATION
11. INSTACURUS
12. INSTASAVIUS
13. INSTCURACC
14. INSTPLOAN
15. INSTSAVACC
16. INSTTDACC
17. IPA
18. IRACDORIG.json
19. IRASAVORIG.json
20. LOANAGDEPO.json
21. LOANQUICKACCOPEN.json
22. PERSONALLOAN
23. SAVINGSACCOUNT
24. SAVINGSACCOUNTUS
25. SECPERSONALLOAN
26. SMBCURRENTACCOUNT
27. SMBINITIATION
28. SMBLOAN
29. SMBLOANAGDEPO
30. SMBSAVINGS
31. SMBTD1
32. SMBTERMLOAN
33. TDACCOUNT
34. TDACCOUNTUS

- 35. TDAPPENTRYHANDOFF
- 36. TDHOSTORCH
- 37. VEHICLELOAN

2

Setup Database

This topic provides detailed information about database related configuration for Oracle Banking Origination Installation.

It is recommended to create different schema for each application.

The prerequisites for setting up the database are as follows:

1. Make sure that the pre-installation setup is completed. The pre-installation setup includes the configuration of database and setting up the `setUserOverrides.sh` file.
2. After creating the schema for each of the required micro services, DDLs and INCs of each micro-service to be compiled in the respective schemas. The DDLs and INCs make sure that the creation of tables and availability of static data required for the execution of services. These are compiled automatically using flyway.

To set up a database for the creation of Oracle Banking Origination schema:

Table 2-1 Database Setup

Service Name	Schema Required
obremo-rpm-maintenance-services	Yes (obremo-rpm-maintenance-services schema)
obremo-rpm-process-driver-services	Yes (obremo-rpm-process-driver-services schema)
obremo-rpm-businessprocess-services	Yes (obremo-rpm-businessprocess-services schema)
obremo-rpm-businessproductdetails-services	Yes (obremo-rpm-businessproductdetails-services schema)
obremo-rpm-cmn-applicantservices	Yes (obremo-rpm-cmn-applicantservices schema)
obremo-rpm-cmn-hostservices	Yes (obremo-rpm-cmn-hostservices schema)
obremo-rpm-cmn-scorecardservices	Yes (obremo-rpm-cmn-scorecardservices schema)
obremo-rpm-lo-loanapplications	Yes (obremo-rpm-lo-loanapplications schema)
obremo-rpm-sav-account-service	Yes (obremo-rpm-sav-account-service schema)
obremo-rpm-term-deposit-service	Yes (obremo-rpm-term-deposit-service schema)
obremo-rpm-projection-services	Yes (obremo-rpm-projection-services schema)
obremo-rpm-batch-services	Yes (obremo-rpm-batch-server schema)
obremo-rpm-cmn-ipaservices	Yes (obremo-rpm-cmn-ipaservices schema)
obremo-rpm-cmn-collateralservices	Yes (obremo-rpm-cmn-collateralservices schema)
obremo-rpm-creditcardapplication	Yes (obremo-rpm-creditcardapplication schema)
obremo-rpm-cmn-mlservice	Yes (obremo-rpm-cmn-mlservice schema)
obremo-rpm-rule-configurationservice	No (Plato rule schema)

3

Configure Oracle Banking Origination Domain

This topic provides information of the domain configuration setup for Oracle Banking Origination application.

The prerequisites are as follows:

1. The machine should have Java JDK installed.
2. Install Oracle Fusion Middleware on the machine.

Note

Before proceeding with the following steps, complete the Oracle Banking Microservices Architecture installation as guided.

3. Steps for creating all Oracle Banking Origination domains, properties like port numbers, names are changes based on the domain. Screenshots are provided for such deviations. Domain creation process remains the same. It is recommended to have separate domain for Oracle Banking Origination application.

Note

For the exact version to be installed, refer to **Software Prerequisites** section in the *License Guide*.

Create and configure the following services for the Oracle Banking Origination domain.

Note

For more information on creating and configuring the domain, refer to the **Domain Creation and Cluster Configuration** topic in the *Configuration and Deployment Guide*.

Table 3-1 Domain Creation List

Service Name	Domain Name
obremo-rpm-maintenance-services	Oracle Banking Origination Domain
obremo-rpm-process-driver-services	Oracle Banking Origination Domain
obremo-rpm-businessprocess-services	Oracle Banking Origination Domain
obremo-rpm-businessproductdetails-services	Oracle Banking Origination Domain
obremo-rpm-cmn-applicantservices	Oracle Banking Origination Domain
obremo-rpm-cmn-hostservices	Oracle Banking Origination Domain
obremo-rpm-cmn-scorecardservices	Oracle Banking Origination Domain
obremo-rpm-lo-loanapplications	Oracle Banking Origination Domain

Table 3-1 (Cont.) Domain Creation List

Service Name	Domain Name
obremo-rpm-term-deposit-service	Oracle Banking Origination Domain
obremo-rpm-batch-services	Oracle Banking Origination Domain
obremo-rpm-projection-services	Oracle Banking Origination Domain
obremo-rpm-sav-account-service	Oracle Banking Origination Domain
obremo-rpm-cmn-ipaservices	Oracle Banking Origination Domain
obremo-rpm-cmn-collateralservices	Oracle Banking Origination Domain
obremo-rpm-creditcardapplication	Oracle Banking Origination Domain
obremo-rpm-cmn-mlservice	Oracle Banking Origination Domain
obremo-rpm-rule-configurationservice	Oracle Banking Origination Domain
app-shell	Appshell Domain
cmc-component-server	Appshell Domain
moc-component-server	Appshell Domain
sms-component-server	Appshell Domain
oboflo-component-server	Appshell Domain
pmu-component-server	Appshell Domain

4

Create Data Sources

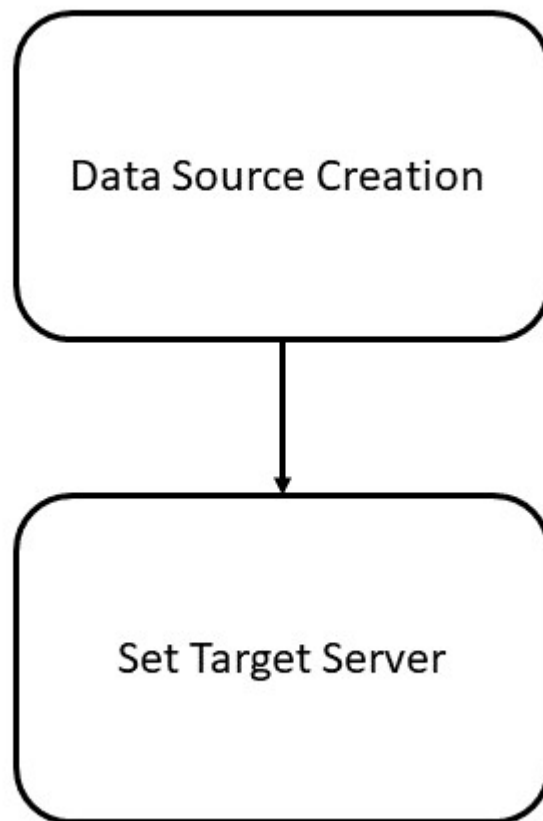
This topic provides systematic instruction to create the data source for Oracle Banking Origination installation.

The prerequisites are as follows:

- Make sure that database setup for Oracle Banking Origination is completed before deployment setup.
- The data sources for the respective microservices 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 diagram represents the process of creating data sources.

Figure 4-1 Data Source Creation



To create the data sources:

1. Create the data sources on each domain.

Note

For more information on data source creation, refer to the **Datasource Creation** topic in the *Configuration and Deployment Guide*.

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

Table 4-1 Data Source List

Service Name	Data Source Name	Data Source JNDI	Targets
obremo-rpm-maintenance-services	RPMMMAINTENANCE	jdbc/ OBREMOMAINTCE	Oracle Banking Origination Managed Server
obremo-rpm-process-driver-services	RPMProcessDriver	jdbc/ RPMPROCESSDRIVE R	Oracle Banking Origination Managed Server
obremo-rpm-businessprocess-services	RPMBusinessProcess	jdbc/ OBREMOBUSSPRC	Oracle Banking Origination Managed Server
obremo-rpm-businessproductdetails-services	RPMBusinessProduct	jdbc/ OBREMOBPDETAILS	Oracle Banking Origination Managed Server
obremo-rpm-cmn-applicantservices	RPMCmnApplicant	jdbc/CMNAPPLICANT	Oracle Banking Origination Managed Server
obremo-rpm-cmn-hostservices	RPMHostService	jdbc/RPMHOST	Oracle Banking Origination Managed Server
obremo-rpm-cmn-scorecardservices	RPMScorecard	jdbc/ CMNSCORECARD	Oracle Banking Origination Managed Server
obremo-rpm-lo-loanapplications	RPMLoan	jdbc/LOANAPP	Oracle Banking Origination Managed Server
obremo-rpm-term-deposit-service	RPMTD	Jdbc/TDACC	Oracle Banking Origination Managed Server
obremo-rpm-projection-services	RPMPROJECTION	jdbc/ RPMPROJECTION	Oracle Banking Origination Managed Server
obremo-rpm-sav-account-service	RPMSaving	jdbc/SAVACC	Oracle Banking Origination Managed Server
obremo-rpm-cmn-ipaservices	RPMIPA	jdbc/IPA	Oracle Banking Origination Managed Server
obremo-rpm-cmn-collateralservices	RPMCOLLATERAL	jdbc/ OBREMOCOLLATERA L	Oracle Banking Origination Managed Server

Table 4-1 (Cont.) Data Source List

Service Name	Data Source Name	Data Source JNDI	Targets
obreemo-rpm-creditcardapplication	RPMCREDITCARD	jdbc/CCAPP	Oracle Banking Origination Managed Server
obreemo-rpm-cmn-mlservice	RPMML	jdbc/OBREMOML	Oracle Banking Origination Managed Server, CMC Managed Server
obreemo-rpm-batch-services	RPMBATCH	Jdbc/RPMBATCH	Oracle Banking Origination Managed Server
Appshell UI	None	None	Appshell Server
cmc-component-server	None	None	Appshell Server
moc-component-server	None	None	Appshell Server
sms-component-server	None	None	Appshell Server
oboflo-component-server	None	None	Appshell Server
pmu-component-server	None	None	Appshell Server

- Map the following data sources to all the newly created managed servers for Oracle Banking Origination.

Note

As part of Oracle Banking Origination, the flyway JNDI changes are incorporated. To deploy the services successfully, the data sources need to be mapped.

Table 4-2 Additional Data Sources

Data Source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Oracle Banking Origination Managed Server
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	Oracle Banking Origination Managed Server
SMS	jdbc/sms	Oracle Banking Origination Managed Server
PLATOBATCH	jdbc/PLATOBATCH	Oracle Banking Origination Managed Server
PLATORULE	jdbc/PLATORULE	Oracle Banking Origination Managed Server
COMMON CORE	jdbc/CMNCORE	Oracle Banking Origination Managed Server
PMU	jdbc/PMU	Oracle Banking Origination Managed Server

- Provide the following grants to the user in the Projection schema required for Machine Learning use cases.
 - GRANT CREATE MINING MODEL TO <RPMML SCHEMA>;
 - GRANT CREATE ANY MINING MODEL TO <RPMML SCHEMA>;

- GRANT ALTER ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT DROP ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT SELECT ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT COMMENT ANY MINING MODEL TO <RPMML SCHEMA>;
- GRANT EXECUTE ON DBMS_DATA_MINING TO <RPMML SCHEMA>;
- GRANT CREATE TABLE TO <RPMML SCHEMA>;
- GRANT DROP ANY TABLE TO <RPMML SCHEMA>;
- GRANT CREATE JOB TO <PRODUCT PROJECTION SCHEMA>;

5

Product Installation using Installer

This topic provides the systematic instructions to install Oracle Banking Origination application using installer.

This topic contains the following subtopics:

- [Pre-requisite](#)
- [Installer Path](#)
- [SQL/CL](#)

5.1 Pre-requisite

Before proceeding with installation setup, make sure that the database installation is completed and required schemas are created.

5.2 Installer Path

The following table provides the download path of the installer:

Table 5-1 Installer Download Path

Application	Archive Name	OSDC Path
OBMA and OBO	obma_obo_patch_installer.zip	/INSTALLER

Note

To install the application using installer, refer to **Oracle Banking Microservices Architecture Installer Guide**.

5.3 SQL/CL

Make sure that the db.zip files are present in `OSDC/OBO_SERVICES/<SERVICE_NAME>/` directory. All db.zip files should be copied to the `obma_patch_installer/deployables/apps/db_obo/` folder. When the installer starts, the script for deploying the db.zip will trigger first.

Note

After successfully deployment of the db.zip files, the application WAR files should be deployed.

6

Deployments

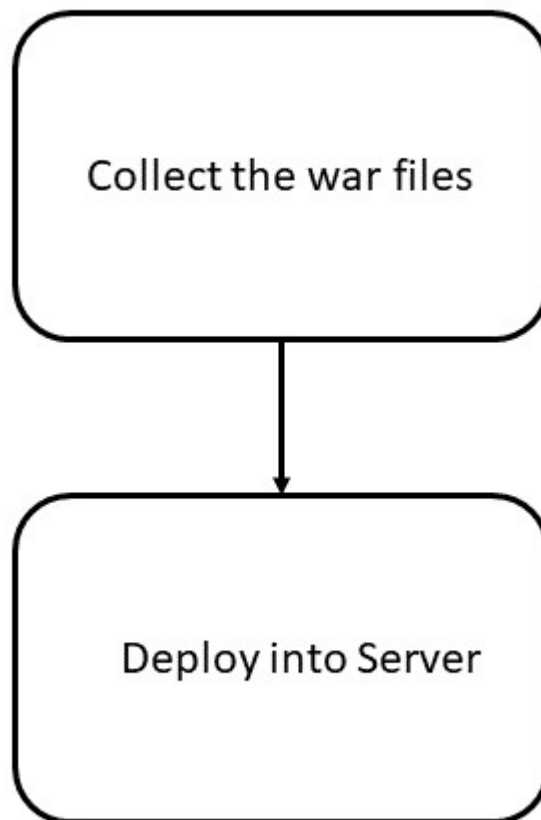
This topic provides the systematic instructions to deploy services for Oracle Banking Origination Installation.

The prerequisites are as follows:

- Make sure that database setup and data sources creation are completed before the application deployment stage.
- Each of the services corresponds to a specific war file that needs to be deployed into the server.

The following diagram represents the process of deploying the war files.

Figure 6-1 Deployments



Deploy all db.zip files in a sequence. After successful deployment of db.zip files, deploy all .war file in a specified order. For more information on deployments, refer to the **Deploy Application** topic in the *Configuration and Deployment Guide*.

The following table gives the details of deployments required on each domain to run the Oracle Banking Origination application. The provided archive names are for reference purpose.

Note

For the exact version of the archive names and version, refer to the OSDC zip provided as a part of release.

Table 6-1 Deployments List

Application	Archive name	OSDC path	Targets
Maintenance Services	obremo-rpm-maintenance-services-10.1.0-db.zip obremo-rpm-maintenance-services-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-maintenance-services	Oracle Banking Origination Managed Server
Process Driver	obremo-rpm-process-driver-services-10.1.0-db.zip obremo-rpm-process-driver-services-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-process-driver-services	Oracle Banking Origination Managed Server
Business Process	obremo-rpm-businessprocess-services-10.1.0-db.zip obremo-rpm-businessprocess-services-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-businessprocess-services	Oracle Banking Origination Managed Server
Business Product details	obremo-rpm-businessproductdetails-services-10.1.0-db.zip obremo-rpm-businessproductdetails-services-10.1.0.war	{unzip the file} OBO_SERVICES\ obremo-rpm-businessproductdetails-services	Oracle Banking Origination Managed Server
Common Applicant	obremo-rpm-cmn-applicantservices-10.1.0-db.zip obremo-rpm-cmn-applicantservices-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-cmn-applicantservices	Oracle Banking Origination Managed Server
Host Services	obremo-rpm-cmn-hostservices-10.1.0-db.zip obremo-rpm-cmn-hostservices-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-cmn-hostservices	Oracle Banking Origination Managed Server
ScoreCard Services	obremo-rpm-cmn-scorecardservices-10.1.0-db.zip obremo-rpm-cmn-scorecardservices-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-cmn-scorecardservices	Oracle Banking Origination Managed Server

Table 6-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
Loan Application Services	obremo-rpm-lo-loanapplications-10.1.0-db.zip obremo-rpm-lo-loanapplications-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-lo-loanapplications	Oracle Banking Origination Managed Server
Savings (CASA) Services	obremo-rpm-sav-account-service-10.1.0-db.zip obremo-rpm-sav-account-service-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-sav-account-service	Oracle Banking Origination Managed Server
Term Deposit Services	obremo-rpm-term-deposit-service-10.1.0-db.zip obremo-rpm-term-deposit-service-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-term-deposit-service	Oracle Banking Origination Managed Server
Batch Service	obremo-rpm-batch-services-10.1.0-db.zip obremo-rpm-batch-services-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-batch-services	Oracle Banking Origination Managed Server
Projection Service	obremo-rpm-projection-services-10.1.0-db.zip obremo-rpm-projection-services-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-projection-services	Oracle Banking Origination Managed Server
IPA Service	obremo-rpm-cmn-ipaservices-10.1.0-db.zip obremo-rpm-cmn-ipaservices-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-cmn-ipaservices	Oracle Banking Origination Managed Server
Collateral Service	obremo-rpm-cmn-collateralservices-10.1.0-db.zip obremo-rpm-cmn-collateralservices-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-cmn-collateralservices	Oracle Banking Origination Managed Server
Credit Card Service	obremo-rpm-creditcardapplication-10.1.0-db.zip obremo-rpm-creditcardapplication-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-creditcardapplication	Oracle Banking Origination Managed Server
ML Service	obremo-rpm-cmn-mlservice-10.1.0-db.zip obremo-rpm-cmn-mlservice-10.1.0.war	{unzip the file} OBO_SERVICES\obrem o-rpm-cmn-mlservice	Oracle Banking Origination Managed Server

Table 6-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
Rule Configuration Service	obremo-rpm-rule-configurationservice-10.1.0-db.zip obremo-rpm-rule-configurationservice-10.1.0.war	{ unzip the file } OBO_SERVICES\obremo-rpm-rule-configurationservice	Oracle Banking Origination Managed Server
OBO UI Components	app-shell-10.1.0-db.zip app-shell-10.1.0.war cmc-component-server-10.1.0-db.zip cmc-component-server-10.1.0.war moc-component-server-10.1.0-db.zip moc-component-server-10.1.0.war sms-component-server-10.1.0-db.zip sms-component-server-10.1.0.war oboflo-component-server-10.1.0-db.zip oboflo-component-server-10.1.0.war pmu-component-server-10.1.0-db.zip pmu-component-server-10.1.0.war	{ unzip the file } ui/	Appshell Server

Note

Refer to OSDC zip for the exact version number for each service.

7

Workflow Deployments

This topic provide the systematic instructions to setup the workflow deployments for Oracle Banking Origination Installation.

Before deploying the process the following topic to be updated with the server ip/port for the end points used in the process.

For each process, open the process to find for http_request and modify the following in the uri.

Table 7-1 Update the process

Term	Value
uri	http://{PROCESS_SERVER_HOST} : {{PROCESS_SERVER_PORT}}/
{{PROCESS_SERVER_HOST}}	IP of the Conductor server.
{{PROCESS_SERVER_PORT}}	Port of the Conductor server

For the list of the workflow-based processes to be deployed, refer to **Oracle Banking Origination Processes**. The server names, domain names need not be the same as this document provides. The steps to deploy a process remains the same for all the workflow files.

To deploy the Workflow Process:

Approach 1 - Postman

Note

Server names, Domain names must be same as provided in this guide.

1. Launch Postman.
2. Create a new request (if not done already) and select the POST method.
If the process flow is already deployed and needs to be updated, then the method should be PUT.

3. Input the URL in the below format

```
http://{PROCESS_SERVER_HOST} :{{PROCESS_SERVER_PORT}}//plato-orch-  
service/api/metadata/workflow
```

4. Input the header parameters as shown below:

```
Content-Type:application/json  
userId:<userId>  
appId:platoorch  
branchCode:<branchCode>  
entityId:DEFAULTENTITY
```

5. Paste the body of the message with the content from the process file.

```

POST https://[redacted]/plato-orch-service/api/metadata/workflow

Body
none form-data x-www-form-urlencoded raw binary GraphQL JSON
1 {
2   "name": "HOMELOAN",
3   "description": "HOMELOAN",
4   "tasks": [
5     {
6       "name": "kafka_msg",
7       "taskReferenceName": "KAFKA_RPM_RLNORG_APPEN",
8       "inputParameters": {
9         "kafka_request": {
10          "topic": "rpmDashboard",
11          "value": {
12            "applicationNo": "${workflow.input.applicationNumber}",
13            "processRefNo": "${workflow.input.processRefNumber}",
14            "branchCode": "${workflow.input.currentBranchCode}",
15            "initiatedBy": "${workflow.input.initiatedBy}",
16            "currentStageCode": "RPM_RLNORG_APPEN",
17            "currentStageName": "Loan Application Entry"
18          },
19          "bootStrapServers": "${workflow.input.server}",
20          "headers": {
21            "x-Auth": "Auth-key",
22            "ackRequired": false
23          }
24        }
25      }
26    ]
27 }

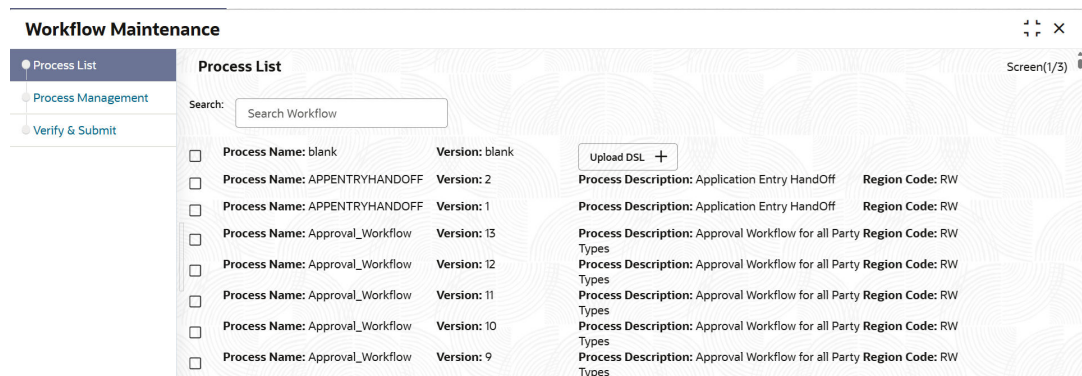
```

- Click **Send**.
Response status **200** returned from server.

Approach 2 – UI

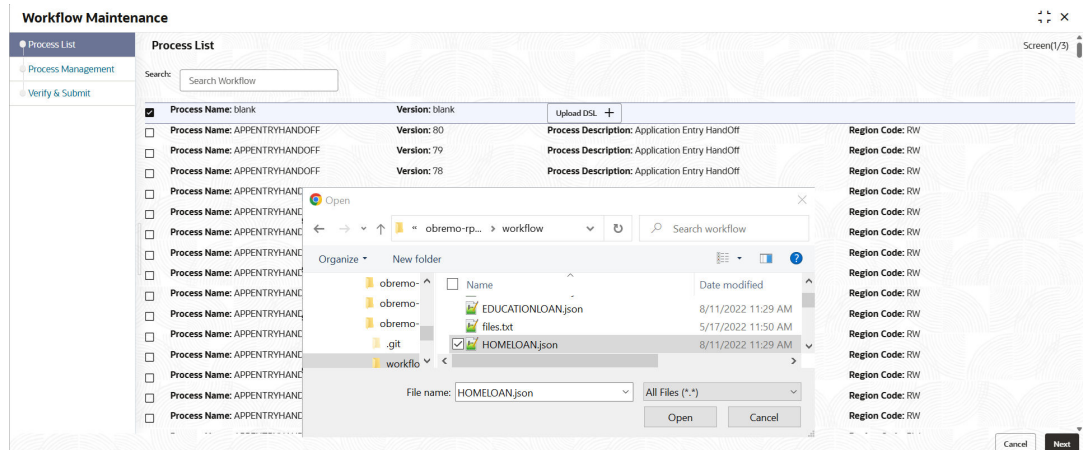
- From the menu, navigate to **Tasks** and click **Business Process Maintenance**.
The **Workflow Maintenance** screen appears.

Figure 7-1 Process List



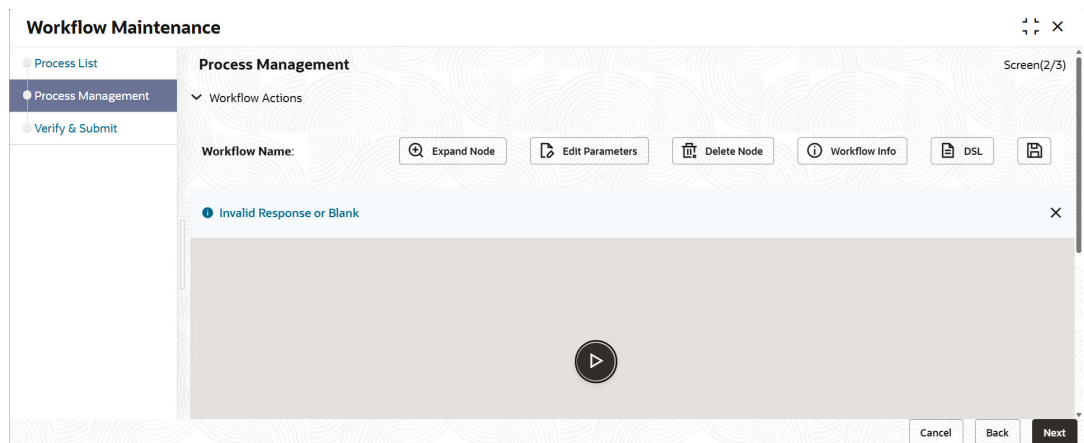
- Select the **Process Name: blank** check box and click **Upload DSL +** to the required DSL.json file.

Figure 7-2 Process Management



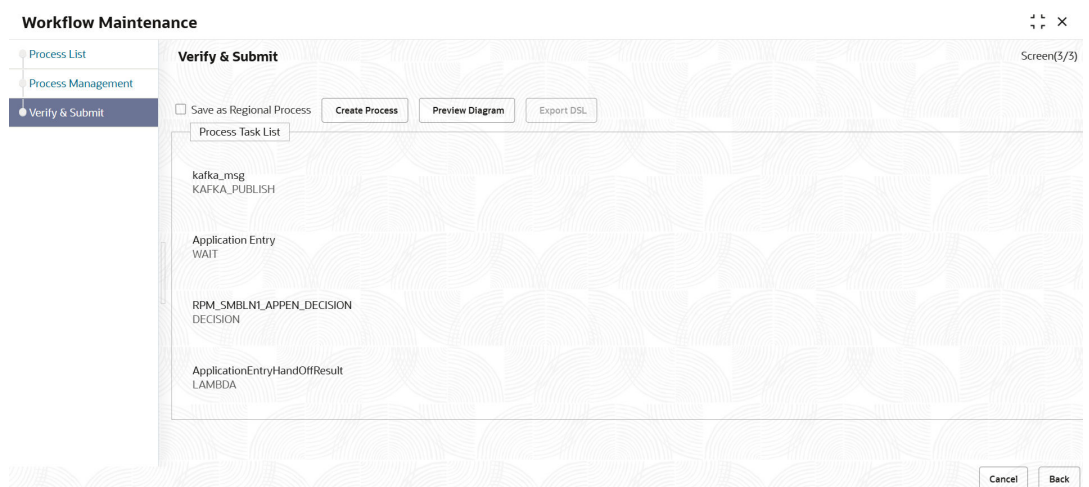
3. Click **Next** to navigate to the **Process Management** screen.

Figure 7-3 Process Management



4. Click **Next** to navigate to the **Verify & Submit** screen.

Figure 7-4 Verify & Submit



5. Click **Create Process**.

Oracle Banking Origination Processes

The following list of Workflow based processes to be deployed for Oracle Banking Origination.

Table 7-2 List of Workflows

Serial Number	Process Name	Dependent Process
1	APPENTRYHANDOFF.json	None
2	BNPLACCOPE.json	None
3	CASAHOSTORCH	None
4	CREDITCARD	None
5	CURRENTACCOUNT	None
6	CURRENTACCOUNTUS	None
7	EDUCATIONLOAN	None
8	HOMELoAN	None
9	HOSTORCHESTRATOR	None
10	INITIATION	None
11	INSTACURUS.json	None
12	INSTASAVIUS.json	None
13	INSTCURACC	None
14	INSTPLOAN	None
15	INSTSAVACC	None
16	INSTTDACC	None
17	IPA	None
18	IRACDORIG.json	None
19	IRASAVORIG.json	None
20	LOANAGDEPO.json	None
21	LOANQUICKACCOPE.json	None
22	PERSONALLOAN	None
23	SAVINGSACCOUNT	None
24	SAVINGSACCOUNTUS	None
25	SECPERSONALLOAN	None
24	SMBCURRENTACCOUNT	None
25	SMBINITIATION	None
26	SMBLOAN	None
27	SMBLOANAGDEPO.json	None
28	SMBSAVINGS	None
29	SMBTD1	None
30	SMBTERMLOAN	None
31	TDACCOUNT	None
32	TDACCOUNTUS	None
33	TDAPPENTRYHANDOFF.json	None
34	TDHOSTORCH	None
35	VEHICLELOAN	None

8

Setup Oracle Banking Origination Kafka

This topic provides systematic instructions to setup the Oracle Banking Origination kafka topics.

The Prerequisites as follows:

- Make sure that the Kafka installation is completed.
- For installation of Kafka, refer to the **Oracle Banking Microservices Architecture Software Deployment** chapter in the *Oracle Banking Microservices Platform Foundation Installation Guide*.

Below mentioned are the Kafka topics that are used in Oracle Banking Origination. All the below topics are to be created and verified in the Kafka Server by using the command.

```
<Kafka Bin Folder>/kafka-topics.sh --create --bootstrap-server <Broker ip/  
hostname>:<Broker Port> --replication-factor 1 --partitions 1 --topic <topic  
name>
```

Table 8-1 Kafka Topics

Serial Number	Topic Name	Description	Usage
1	rpmDashboard	This event is used for populating projection data for rendering the dashboard.	Updating all the attributes related to a process
2	InitialFundingAck	This event is triggered when Term Deposit and savings initial funding option is selected as CASH, Oracle Banking Origination triggers a teller transaction Status change of the same transaction will be updated to Oracle Banking Origination asynchronously.	Status change occurrence for an Oracle Banking Origination initiated transaction in Teller
3	PartyKYCStatusUpdate	This event is triggered related to when a customer onboarding request is sent to the party module. Party has its own workflow Whenever the KYC verification is completed from party module, notification will be sent to Oracle Banking Origination.	KYC status update for the Customer

Table 8-1 (Cont.) Kafka Topics

Serial Number	Topic Name	Description	Usage
4	PartyHandoffNotification	This event is triggered related to when a customer onboarding request is sent to the party module. Party has its own workflow. A confirmation message will send from Oracle Banking Origination to the party module to notify that party module can proceed with creation of customer in their product processor.	Customer accepts the offer
5	PartyHandoffToHostStatus	After creating the customer in the product processor party module will send a message containing the created customer ID to Oracle Banking Origination.	Customer is created in product processor
6	processTimePredictionMessage	All services updates the required Machine Learning data into ML service table which will further be used for predicting the time required to complete the process.	Machine Learning Table Update
7	obremo-rpm-batch-services	To perform batch processing based on remote chunking enabled configuration	obremo-rpm-batch-services
8	collateralHandoff	When the customer is created and notification is passed on to Oracle Banking Origination, Oracle Banking Origination will trigger a notification to Oracle Banking Credit Facilities Process Management based on which Oracle Banking Credit Facilities Process Management will actually create the liability	Notification to Oracle Banking Credit Facilities Process Management to initiate Liability Creation
9	ofloAcknowledgementtxn	Once the Oracle Banking Branch call is made for teller , Oracle Banking Branch will notify Oracle Banking Origination back when the transaction is complete via this topic	Notification from Oracle Banking Branch to update transaction Reference Number & Status
10	HandoffGenerated	Oracle Banking Origination publish the channel event to send the customer ID to Oracle Banking Credit Facilities Process Management. So that user can go ahead for charge creation.	Notification from Oracle Banking Origination to Oracle Banking Credit Facilities Process Management for charge creation.

Table 8-1 (Cont.) Kafka Topics

Serial Number	Topic Name	Description	Usage
11	collateralGenericEvent	Oracle Banking Credit Facilities Process Management publish the channel event once the handoff success from Oracle Banking Credit Facilities Process Management end. This will update liability ID in Oracle Banking Origination.	Notification from Oracle Banking Credit Facilities Process Management to Oracle Banking Origination to update liability ID created by Oracle Banking Credit Facilities Process Management in Oracle Banking Origination.
12	DocGptTrigger	Internal Kafka event to prepare and send train request to LLM service	Trigger to send train request to LLM service
13	externalSystemAlertMessage	Plato Alerts Kafka Topic to notify Origination events to Oracle Banking Digital Experience Product	Oracle Banking Digital Experience Alert Notification
14	DocumentAlertGenerate	Multiple services will publish message to this topic to generate and dispatch events	Document Generation Event

9

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 the **Restart Servers** topic in the *Configuration and Deployment Guide*.

10

Logging Area

This topic describes about the logging area after deployment of Oracle Banking Origination applications in WebLogic server.

Oracle Banking Origination Application writes logs in the logging area of the server:

```
<WEBLOGIC_DOMAIN_CONFIG_AREA/servers/APP/logs/ APP.out
```

A sample of logging area is as follows:

Table 10-1 Sample Logging area

Sample	Value
Domain Name	obo_domain
Managed_server Name	OBOAPP
Domain Area	For example, a domain is created with the above domain and managed server names in the following area of the server: ~/middleware/user_projects/domains/ oflo_domain
Logging area for Oracle Banking Origination applications	~/middleware/user_projects/domains/oflo_domain/servers/OBOAPP/logs/ OBOAPP.out

11

Launch Oracle Banking Origination from FLEXCUBE Universal Banking

This topic provides information on setting up database related configuration for the installation Oracle Banking Origination.

It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

To launch Oracle Banking Origination from FLEXCUBE Universal Banking:

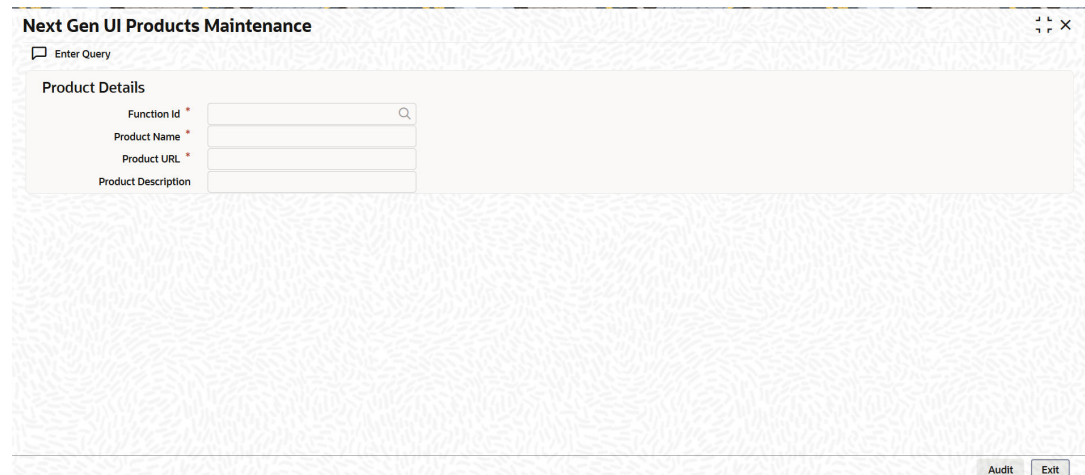
1. On the Homepage, specify **CSDNGUIM** in the text box, and click the next arrow.

Note

Make sure that the user has roles for the screen.

The **Next Gen UI Products Maintenance** screen is displayed.

Figure 11-1 Next Gen UI Products Maintenance



2. On the **Next Gen UI Products Maintenance** screen, and update the Oracle Banking Microservices Architecture Product URL.

Note

For more information on the screen, refer to the FLEXCUBE Universal Banking Documentation Library.

A new Function ID **NGTELLER** is released as static data.

3. Make sure that the user roles are maintained for the new Function ID.
4. Once the roles are maintained, click **Next Gen UI** on the toolbar.
The **Next Gen UI** Dashboard displayed with the list of products.
5. Click **OBO** product.
The **Oracle Banking Microservices Architecture Teller Dashboard** appears.

Note

Make sure the same User ID is maintained for the Oracle Banking Origination product and it has the necessary roles.

6. Configure Oracle Banking Microservices Architecture as follows:
 - a. Update the SECURITY_CONFIG table in the PLATO_SECURITY schema.
For information on the entries, refer to the table below:

Table 11-1 Security Configuration

Key	Value
INTEGRATION_ENABLED	True
INTEGRATION_CALLBACK_URL	https://FCUBShostname:FCUBSport/FCJNeoWeb/ValidationService/FCNonceValidation/validate

- b. Update the hostname and port number of FLEXCUBE Universal Banking in the integration callback URL.

12

OCR Enabled Document Extraction Environment Setup

This topic provides the information on setting up the environment required for OCR enabled document extraction/verification feature used in Oracle Banking Origination.

The details of this feature can be obtained from **Operations User Guide**.

Reference Documents

Below are the references for setting up of this environment:

- Refer to the Document Verification Framework topic in the **Common Core Services Installation Guide**.
- Refer to the Document Verification Framework topic in **Oracle Banking Common Core User Guide**.