Installation Guide Oracle Banking Branch Release 14.5.0.0.0 Part No. F41897-01 May 2021



# **Table of Contents**

1.	PRE	FACE	1-1
1.	1	INTRODUCTION	1-1
1.2	2	AUDIENCE	1-1
1	3	DOCUMENTATION ACCESSIBILITY	1-1
1.4	4	Organization	
1.3	5	RELATED DOCUMENTS	1-3
2.	DAT	ABASE SETUP	2-1
<b></b> 2.:		INTRODUCTION	
2.	-	Pre-requisite	
	2.2.1		
2.		DATABASE SETUP	
2.4	4	DATABASE LINK CREATION	
2.:	5	USER GRANTS	
	2.5.1		
	2.5.2	Common Core Grants	2-5
	2.5.3	Security Management System (SMS) Grants	2-5
	2.5.4		
	2.5.5	View Creation Grants	2-6
3.	OD A	CLE BANKING BRANCH SERVICES DOMAINS CONFIGURATION	2 1
<b>3.</b> 3.		Prefequisites	
3.	_	ORACLE BANKING BRANCH SERVICE DOMAIN CREATION	
		A SOURCES CREATION	
4.		Pre-requisite	
4.	_	Data sources List	
4.		STEPS TO CREATE DATASOURCE	
4.4	4	ADDITIONAL DATASOURCE MAPPING	4-2
5.	DEP	LOYMENTS	5-1
5.		Pre-requisite	
5.	2	DEPLOYMENTS LIST	5-1
5	3	STEPS TO DEPLOY AS APPLICATION	5-3
6.	ORA	CLE BANKING BRANCH KAFKA SETUP	6_1
		OWCC SERVER CONFIGURATION	
7.	_	INTRODUCTION	
7.	_	Prefequisite	
7.		CONFIGURATIONS FOR OWCC SERVER	
7.	4	CONFIGURATIONS FOR OAS	7-1
8.	SSL	CONFIGURATION	8-1
8.		INTRODUCTION	
8.2	2	Prerequisite	
8	3	CONFIGURATIONS FOR SSL	
0	DEC		
		TARTS AND REFRESHRESTARTING SERVERS	
9.			
10.	L	OGGING AREA	
10	).1	INTRODUCTION	
	10.1.	1 Logging Area	10-1
11.	Ω	RACLE BANKING BRANCH UI DOMAIN AND CLUSTER CONFIGURATION	11.1
11.		Prefequisites	
11		ORACLE BANKING BRANCH UI DOMAIN (OBBRNUI)	
11		POST DOMAIN CREATION CONFIGURATIONS	



12.	ORACLE BANKING BRANCH USER INTERFACE DEPLOYMENTS	12-1
12.1	STEPS TO DEPLOY AS APPLICATION	12-1
13.	RESTARTS AND REFRESH	13-1
13.1	RESTARTING SERVERS	13-1
14.	DEPLOYMENTS	14-1
14.1	ORACLE BANKING BRANCH PROCESSES	14-1
14.2	UPDATING THE PROCESS	14-2
14.3	STEPS TO DEPLOY CONDUCTOR PROCESS	14-2
15.	LAUNCHING ORACLE BANKING BRANCH FROM UBS	15-1
15.1	Introduction	15-1
15.2	FCUBS CONFIGURATIONS	15-1
15.3	PLATO CONFIGURATIONS	15-1
16.	ORACLE DIGITAL ASSISTANT CONFIGURATION	16-1
16.1	Introduction	16-1
16.2	PLATO SETUP	16-1
16.3	PLATO CONFIGURATIONS	16-2
16.4		
16.5	MAP THE SKILL TO DIGITAL ASSISTANT	
16.6	MAP DIGITAL ASSISTANT TO CHANNEL	16-6



#### 1. Preface

#### 1.1 Introduction

This guide helps you to install the Oracle Banking Branch services, User Interface, and Conductor Process flow on designated environments. 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 Plato infrastructure services, Oracle Banking Branch Services and Oracle Banking Branch User Interface.

### 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 <u>Documentation Accessibility</u>

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <a href="http://www.oracle.com/us/corporate/accessibility/index.html">http://www.oracle.com/us/corporate/accessibility/index.html</a>.

#### 1.4 Organization

This installation user guide would allow you to install the below mentioned Oracle Banking Branch services, UI, process flow in same order:

#### **Oracle Banking Branch Services**

- 1. obremo-srv-bcn-branchcommon-services
- obremo-srv-adp-adapter-services
- 3. obremo-srv-cas-cash-services
- 4. obremo-srv-cmn-ml-processing
- 5. obremo-srv-cmn-transaction-services
- 6. obremo-srv-cus-customer-services
- 7. obremo-srv-pay-payment-services
- 8. obremo-srv-prj-projection-services
- 9. obremo-srv-tds-term-deposit-services
- 10. obremo-srv-cmn-utils-service
- 11. obbrn-srv-biz-businessprocess-services
- 12. obbrn-cmn-businessproductdetails-services
- 13. obbrn-cmn-process-driver-services
- 14. obremo-csr-cus-customer-services

Along with the above war files, only if it is an ITALY localisation implementation, deploy the war files mentioned below:

- 1. obremo-batch-cancelmavbatch-extended-services
- 2. obremo-batch-futuremavprocess-extended-services
- 3. obremo-blockmavnos-service



- 4. obremo-cirularchq-service
- 5. obremo-endtellerlargedenom-service
- 6. obremo-issuemav-service
- 7. obremo-mavbatchprocess-service
- 8. obremo-mrfparams-service
- 9. obremo-mrfpaymenttxn-service
- 10. obremo-statictype-service

#### **User Interface**

Follow the below steps to migrate from existing app-shell build to Foundation app-shell. With Foundation app-shell, 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

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

1. obbrn-component-server

#### **ITALY Specific Application**

Along with the above war files, only if it is an ITALY localisation implementation, deploy additional application 'extended-cluster.war' (name as appropriate) provided with the shipped sources.

#### **Process Workflow**

- 1. ACCOUNTADDRESSUPDATE
- 2. CUSTOMERADDRESSUPDATE
- 3. CUSTOMERCONTACTUPDATE
- CMC\_CHARGES\_Consumer
- 5. PLATOCORE Consumer
- 6. Branch Transfer
- 7. Card Status
- 8. CASA Statement
- 9. CASA Status
- 10. JointHolder
- 11. Modify SI
- 12. Nominee Update
- 13. SI Transfer
- 14. Stop Cheque
- 15. Sweep In to CASA
- 16. Sweep Out CASA
- 17. TD Instruction



- 18. TemporaryOverdraft
- 19. Account Statement Frequency
- 20. Activate Dormant
- 21. Address Update
- 22. Amount Block
- 23. Cheque Book Request

# 1.5 Related documents

For more information, refer to the following documents:

- Getting Started User Guide
- Pre installation Guide
- ANNEXURE-1



## 2. Database Setup

#### 2.1 Introduction

In this section you are going to setup database related configuration for Oracle Banking Branch Installation. It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

## 2.2 Pre-requisite

In this section, you are going to setup database related configuration for Oracle Banking Branch Installation. Before you proceed, ensure pre-installation setup is done. The pre-installation setup includes the configuration of database, setting up the setUserOverrides.sh. 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 ensure the creation of tables and availability of static data required for the execution of services. These are compiled automatically using flyway.

#### 2.2.1 Placeholder Update

The placeholders need to be configured in the **setUserOverrides.sh** file for Oracle Banking Branch installation. This topic provides the keys and their respective placeholder values for various services. To update the placeholders for Plato services, refer to **Placeholder Update for Plato-Services** section in ANNEXURE-1.

The keys and placeholder values for obremo-srv-prj-projection-services are as follows:

Key	Placeholder
spring.cloud.stream.kafka.binder.tx n.zkNodes	plato.eventhub.txn.zookeper.hosts
spring.cloud.stream.kafka.binder.tx n.brokers	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.til Itot.zkNodes	plato.eventhub.tilltot.zookeper.hosts
spring.cloud.stream.kafka.binder.til ItotDenom.brokers	plato.eventhub.tilltotDenom.broker.host
spring.cloud.stream.kafka.binder.til Itot.brokers	plato.eventhub.tilltot.broker.hosts
spring.cloud.stream.kafka.binder.til ItotDenom.zkNodes	plato.eventhub.tilltotDenom.zookeper.hosts
spring.cloud.stream.kafka.binder.c asaBinder.brokers	plato.eventhub.casaBinder.broker.hosts
spring.cloud.stream.kafka.binder.c asaBinder.zkNodes	plato.eventhub.casaBinder.zookeper.hosts



The keys and placeholder values for obremo-srv-cmn-utils-services are as follows:

Key	Placeholder
plato.eventhub.kafka.brokers	plato.eventhub.broker.hosts
plato.eventhub.zk.nodes	plato.eventhub.zookeper.hosts
poller.fixedRate	obremo-srv-cmn-utils-services.poller.fixedRate
poller.initialDelay	obremo-srv-cmn-utils-services.poller.initialDelay
pollingEmail	obremo-srv-cmn-utils-services.pollingEmail
emailServerPort	obremo-srv-cmn-utils-services.emailServerPort
emailServerHost	obremo-srv-cmn-utils-services.emailServerHost
pollingFrequency	obremo-srv-cmn-utils-services.pollingFrequency
emailPassword	obremo-srv-cmn-utils-services.emailPassword
plato.eventhub.oflo.zk.nodes	plato.eventhub.oflo.zookeper.hosts
plato.eventhub.oflo.kafka.brokers	plato.eventhub.oflo.broker.hosts
spring.cloud.stream.kafka.binder.tx n.zkNodes	plato.eventhub.txn.zookeper.hosts
spring.cloud.stream.kafka.binder.tx n.brokers	plato.eventhub.txn.broker.hosts
spring.cloud.stream.kafka.binder.til Itot.zkNodes	plato.eventhub.tilltot.zookeper.hosts
spring.cloud.stream.kafka.binder.til ItotDenom.brokers	plato.eventhub.tilltotDenom.broker.host
spring.cloud.stream.kafka.binder.til Itot.brokers	plato.eventhub.tilltot.broker.hosts
spring.cloud.stream.kafka.binder.til ItotDenom.zkNodes	plato.eventhub.tilltotDenom.zookeper.hosts

The keys and placeholder values for plato-alerts-management-services are as follows:

Key	Placeholder
plato.eventhub.kafka.brokers	plato.eventhub.broker.hosts
plato.eventhub.zk.nodes	plato.eventhub.zookeper.hosts



Key	Placeholder
EMAIL.PASSWORD	plato.alerts.email.password
EMAIL.USER_ID	plato.alerts.email.userId

The keys and placeholder values for cmc-fc-ai-ml-services are as follows:

Key	Placeholder
pollingEmail	cmc-fc-ai-ml-services.pollingEmail
emailServerPort	cmc-fc-ai-ml-services.emailServerPort
emailServerHost	cmc-fc-ai-ml-services.emailServerHost
pollingFrequency	cmc-fc-ai-ml-services.pollingFrequency
pollerInitialDelay	cmc-fc-ai-ml-services.pollerInitialDelay
emailPassword	cmc-fc-ai-ml-services.emailPassword
pollingPath	cmc-fc-ai-ml-services.pollingPath
postingPath	cmc-fc-ai-ml-services.postingPath

The keys and placeholder values for obremo-csr-cus-customer-services are as follows:

Key	Placeholder
server.port	obremo-csr-cus-customer-services.server.port
flyway.domain.schemas	obremo-csr-cus-customer-services.schemas
flyway.domain.db.jndi	obremo-csr-cus-customer-services.jndi

The keys and placeholder values for obbrn-cmn-process-driver-services are as follows:

Key	Placeholder
server.port	obremo-csr-cus-customer-services.server.port
flyway.domain.schemas	obbrn-cmn-process-driver-services.schemas
flyway.domain.db.jndi	obbrn-cmn-process-driver-services.jndi
plato.kafka.server.url	obbrn-cmn-process-driver-services.plato.kafka.server.url

The keys and placeholder values for obbrn-cmn-businessproductdetails-services are as follows:

Key	Placeholder
server.port	obbrn-cmn-businessproductdetails-services.server.port



Key	Placeholder
flyway.domain.schemas	obbrn-cmn-businessproductdetails-services.schemas
flyway.domain.db.jndi	obbrn-cmn-businessproductdetails-services.jndi
plato.service.logging.path	LOG_PATH

# 2.3 Database Setup

To setup DB for Oracle Banking Branch schema's to be created:

Service Name	Schema Required
obremo-srv-bcn-branchcommon- services	Yes (obremo-srv-bcn-branchcommon-services schema)
obremo-srv-adp-adapter-services	Yes (obremo-srv-adp-adapter-services schema)
obremo-srv-cas-cash-services	Yes (obremo-srv-cas-cash-services schema)
obremo-srv-cmn-ml-processing	No (obremo-srv-bcn-branchcommon-services schema)
obremo-srv-cmn-transaction- services	Yes (obremo-srv-cmn-transaction-services schema)
obremo-srv-cus-customer-services	Yes (obremo-srv-cus-customer-services schema)
obremo-srv-pay-payment-services	Yes (obremo-srv-pay-payment-services schema)
obremo-srv-prj-projection-services	Yes (obremo-srv-prj-projection-services schema)
obremo-srv-tds-term-deposit- services	Yes (obremo-srv-tds-term-deposit-services schema)
obremo-srv-cmn-utils-services	No (obremo-srv-bcn-branchcommon-services schema)
obbrn-srv-biz-businessprocess- services	Yes (obbrn-srv-biz-businessprocess-services schema)
obbrn-cmn- businessproductdetails-services	Yes (CMNBUSPROD schema)
obbrn-cmn-process-driver-services	Yes (CMNPRODRV schema)
obremo-csr-cus-customer-services	Yes (CSRCASA schema)

## 2.4 Database Link Creation

Projection services from Oracle Banking Branch has to interface with Transaction and Payment service. To address above requirement, a database link has to be created in Transaction and Payment schema with the name PROJECTIONDBLINK pointing to Projection service's schema.



#### 2.5 User Grants

#### 2.5.1 Common Grants

The following common grants are provided to the user in the Oracle Banking Branch schema:

- grant create session to PLATO;
- grant create table to PLATO;
- grant create sequence to PLATO;

#### 2.5.2 Common Core Grants

The following grants are provided additionally in the COMMON CORE schema:

- grant create procedure to CMNCORE;
- grant create synonym to CMNCORE;

#### 2.5.3 Security Management System (SMS) Grants

The following grants are provided additionally in the SMS schema:

grant create synonym to SMS;

#### 2.5.4 <u>Transaction and Payment Grants</u>

#### 2.5.4.1 Grants

Execute the following grants in PROJECTION schema by replacing the schema name:

- grant select, insert, update on SRV\_TB\_BC\_EJ\_LOG to TRANSACTION;
- grant select, insert, update on SRV\_TB\_CH\_TILL\_TOT to TRANSACTION;
- grant select, insert, update on SRV\_TB\_CH\_TILL\_TOT\_DENM to TRANSACTION;
- grant select, insert, update on SRV TB PJ INSTR DTLS to PAYMENT;

#### 2.5.4.2 Synonyms Creation

Once the grants are provided, create the synonyms in TRANSACTION and PAYMENT schemas.

#### **Transaction Schema:**

- create synonym SRVS TB CH TILL TOT for PROJECTION.SRV TB CH TILL TOT;
- create synonym SRVS\_TB\_CH\_TILL\_TOT\_DENM for PROJECTION.SRV\_TB\_CH\_TILL\_TOT\_DENM;
- create synonym SRVS TB BC EJ LOG for PROJECTION.SRV TB BC EJ LOG;

#### **Payment Schema:**

 create synonym SRVS\_TB\_PJ\_INSTR\_DTLS for PROJECTION.SRV\_TB\_PJ\_INSTR\_DTLS;

If the schema is present in different database, create the synonyms in TRANSACTION and PAYMENT schemas.

#### **Transaction Schema:**

- create synonym SRVS\_TB\_CH\_TILL\_TOT for SRV\_TB\_CH\_TILL\_TOT@dblink;
- create synonym SRVS\_TB\_CH\_TILL\_TOT\_DENM for SRV\_TB\_CH\_TILL\_TOT\_DENM@dblink;
- create synonym SRVS\_TB\_BC\_EJ\_LOG for SRV\_TB\_BC\_EJ\_LOG@dblink;



#### **Payment Schema:**

• create synonym SRVS\_TB\_PJ\_INSTR\_DTLS for SRV\_TB\_PJ\_INSTR\_DTLS@dblink;

**NOTE:** Once the synonyms are created, triggers need to be re-compiled.

#### 2.5.5 <u>View Creation Grants</u>

In addition to the above grants provided to the user, you can add view creation grant in the PROJECTION schema as follows:

- grant create mining model to PROJECTION;
- grant create any mining model to PROJECTION;
- grant alter any mining model to PROJECTION;
- grant drop any mining model to PROJECTION;
- grant select any mining model to PROJECTION;
- grant comment any mining model to PROJECTION;
- grant execute on DBMS\_DATA\_MINING to PROJECTION;
- grant create view to PROJECTION;
- grant create table to PROJECTION;
- grant drop table to PROJECTION;



# 3. Oracle Banking Branch Services Domains Configuration

## 3.1 Prerequisites

- 1. Machine should have Java JDK has installed.
- 2. Oracle Fusion Middleware Infrastructure has to be installed on the machine.
  - NOTE: Before proceeding with below steps complete Plato installation guided.
- Steps for creating all Oracle Banking Branch domains, properties like port numbers, names will be changing based on the domain. Screenshots provided for such deviations. Domain creation process remains the same.

**NOTE**: For the exact version to be installed, refer to **Software Pre-requisites** section in **License Guide**.

## 3.2 Oracle Banking Branch Service Domain Creation

It is recommended to have separate domain for Oracle Banking Branch application. For Creating Domain and Configuration, refer to **How to create and Cluster Configuration** section in ANNEXURE-1.

Service Name	Domain Name
obremo-srv-bcn-branchcommon-services	Oracle Banking Branch Domain
obremo-srv-cas-cash-services	Oracle Banking Branch Domain
obremo-srv-cmn-transaction-services	Oracle Banking Branch Domain
obremo-srv-pay-payment-services	Oracle Banking Branch Domain
obremo-srv-tds-term-deposit-services	Oracle Banking Branch Domain
obremo-srv-adp-adapter-services	Oracle Banking Branch Domain
obremo-srv-cmn-ml-processing	Oracle Banking Branch Domain
obremo-srv-cus-customer-services	Oracle Banking Branch Domain
obremo-srv-prj-projection-services	Oracle Banking Branch Domain
obremo-srv-cmn-utils-services	Oracle Banking Branch Domain
obbrn-srv-biz-businessprocess-services	Oracle Banking Branch Domain
obbrn-cmn-businessproductdetails- services	Oracle Banking Branch Domain
obbrn-cmn-process-driver-services	Oracle Banking Branch Domain
obremo-csr-cus-customer-services	Oracle Banking Branch Domain
obremo-batch-cancelmavbatch-extended- services*	Oracle Banking Branch Domain
obremo-batch-futuremavprocess- extended-services*	Oracle Banking Branch Domain
obremo-blockmavnos-service*	Oracle Banking Branch Domain
obremo-cirularchq-service*	Oracle Banking Branch Domain
obremo-endtellerlargedenom-service*	Oracle Banking Branch Domain
obremo-issuemav-service*	Oracle Banking Branch Domain



Service Name	Domain Name
obremo-mavbatchprocess-service*	Oracle Banking Branch Domain
obremo-mrfparams-service*	Oracle Banking Branch Domain
obremo-mrfpaymenttxn-service*	Oracle Banking Branch Domain
obremo-statictype-service*	Oracle Banking Branch Domain

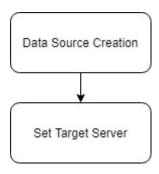
**NOTE**: ITALY localization specific service should be considered only if it is an ITALY localization implementation.



#### 4. Data Sources Creation

#### 4.1 Pre-requisite

Database setup for Oracle Banking Branch 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 Oracle Banking Branch 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.

Service Name	Data source Name	Data source JNDI	Targets
obremo-srv-bcn- branchcommon- services	BRANCHCOMMON	jdbc/SRVBRANCH COMMON	Servicing Managed Server
obremo-srv-cas-cash- services	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-srv-cmn- transaction-services	TRANSACTION	jdbc/SRVCMNTXN	Servicing Managed Server
obremo-srv-pay-	PAYMENT	jdbc/SRVPAYMEN	Servicing
payment-services		T	Managed Server
obremo-srv-tds-term-	TERMDEPOSIT	jdbc/SRVTERMDE	Servicing
deposit-services		POSIT	Managed Server
obremo-srv-adp-	ADAPTER	jdbc/SRVADAPTE	Servicing
adapter-services		R	Managed Server
obremo-srv-cmn-ml-	BRANCHCOMMON	jdbc/SRVBRANCH	Servicing
processing		COMMON	Managed Server
obremo-srv-cus-	CUSTOMER	jdbc/SRVCUSTOM	Servicing
customer-services		ER	Managed Server
obremo-srv-prj-	PROJECTION	jdbc/SRVPROJEC	Servicing
projection-services		TION	Managed Server
obremo-srv-cmn-utils-	BRANCHCOMMON	jdbc/SRVBRANCH	Servicing
services		COMMON	Managed Server
obbrn-srv-biz- businessprocess- services	BIZPROCESS	jdbc/BIZPRC	Servicing Managed Server



Service Name	Data source Name	Data source JNDI	Targets
obbrn-cmn- businessproductdetails -services	CMNBUSPROD	jdbc/ CMNBUSPROD	Servicing Managed Server
obbrn-cmn-process- driver-services	CMNPRODRV	Jdbc/ CMNPRODRV	Servicing Managed Server
obremo-csr-cus- customer-services	CSRCASA	Jdbc/CSRCASA	Servicing Managed Server
obremo-batch- cancelmavbatch- extended-services	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-batch- futuremavprocess- extended-services	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-blockmavnos- service	BRANCHCOMMON	jdbc/SRVCASH	Servicing Managed Server
obremo-cirularchq- service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo- endtellerlargedenom- service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-issuemav- service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo- mavbatchprocess- service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-mrfparams- service	BRANCHCOMMON	jdbc/SRVCASH	Servicing Managed Server
obremo- mrfpaymenttxn-service	CASH	jdbc/SRVCASH	Servicing Managed Server
obremo-statictype- service	BRANCHCOMMON	jdbc/SRVCASH	Servicing Managed Server

## 4.3 Steps to Create Datasource

For creating data source, refer to **How to create Data sources** section in ANNEXURE-1.

## 4.4 Additional Datasource Mapping

As part of Oracle Banking Branch, flyway jndi changes are incorporated. In order to deploy the services successfully, map the following data source to all the newly created managed servers for Oracle Banking Branch.

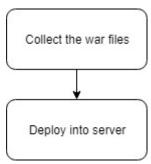
Data source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Servicing Managed Server
PLATO_UI	jdbc/PLATO_UI_CONFIG	Servicing Managed Server
PLATOFEED	jdbc/PLATOFEED	Servicing Managed Server
SMS	jdbc/sms	Servicing Managed Server
COMMON CORE	jdbc/CMNCORE	Servicing Managed Server
PLATO-O	jdbc/PLATO-O	Servicing Managed Server



# 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 Oracle Banking Branch application and the steps to deploy them into the server.



## 5.2 Deployments List

Below table give details of the deployments required on each domain for the Oracle Banking Branch application to run. Deploy one after other in the same given order. The provided archive names are for reference purpose. Refer to the exact archive names available as a part of release.

Application	Archive name	OSDC path	Targets
Branch Common Service	obremo-srv-bcn- branchcommon- services-6.0.0.war	{unzip the file}OBBRN\obremo- srv-bcn-branchcommon- services	Servicing Managed Server
Adapter Service	obremo-srv-adp- adapter-services- 6.0.0.war	{unzip the file} OBBRN\obremo-srv-adp- adapter-services	Servicing Managed Server
Cash Services	obremo-srv-cas-cash- services-6.0.0.war	{unzip the file} OBBRN\obremo-srv-cas-cash- services	Servicing Managed Server
Machine Learning Processing	obremo-srv-cmn-ml- processing-6.0.0.war	{unzip the file} OBBRN\obremo-srv-cmn-ml- processing	Servicing Managed Server
Common Transaction Service	obremo-srv-cmn- transaction-services- 6.0.0.war	{unzip the file} OBBRN\obremo-srv-cmn- transaction-services	Servicing Managed Server
Customer Service	obremo-srv-cus- customer-services- 6.0.0.war	{unzip the file} OBBRN\obremo-srv-cus- customer-services	Servicing Managed Server
Payment Service	obremo-srv-pay- payment-services- 6.0.0.war	{unzip the file} OBBRN\obremo-srv-pay- payment-services	Servicing Managed Server
Projection Services	obremo-srv-prj- projection-services- 6.0.0.war	{unzip the file} OBBRN\obremo-srv-prj- projection-services	Servicing Managed Server



Application	Archive name	OSDC path	Targets
Term Deposit Service	obremo-srv-tds-term- deposit-services- 6.0.0.war	{unzip the file} OBBRN\obremo-srv-tds-term- deposit-services	Servicing Managed Server
SRV Common Utils Services	obremo-srv-cmn-utils- services-6.0.0.war	{unzip the file} OBBRN\obremo- srv-cmn-utils-services	Servicing Managed Server
SRV Business Process Service	obbrn-srv-biz- businessprocess- services-6.0.0.war	{unzip the file} OBBRN\obbrn- srv-biz-businessprocess-services	Servicing Managed Server
Business Product Service	obbrn-cmn- businessproductdetails- services-6.0.0.war	{unzip the file} OBBRN\CASA\obbrn-cmn- businessproductdetails-services	Servicing Managed Server
Process Driver Service	obbrn-cmn-process- driver-services-6.0.0.war	{unzip the file} OBBRN\CASA\obbrn-cmn- process-driver-services	Servicing Managed Server
CASA Customer Service	obremo-csr-cus- customer-services- 6.0.0.war	{unzip the file} OBBRN\CASA\obremo-csr-cus- customer-services	Servicing Managed Server
ITALY Localisation Cancel MAV batch Service*	obremo-batch- cancelmavbatch- extended-services- 6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation Future MAV batch Service*	obremo-batch- futuremavprocess- extended-services- 6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation Block MAV Service*	obremo-blockmavnos- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation Circular Cheque Service*	obremo-cirularchq- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation End Teller Large Denom Service*	obremo- endtellerlargedenom- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation Issue MAV Service*	obremo-issuemav- extended-services- 6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation MAV batch Process Service*	obremo- mavbatchprocess- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server



Application	Archive name	OSDC path	Targets
ITALY Localisation MRF parameter maintenance Service*	obremo-mrfparams- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation MRFA/MRFC transaction Service*	obremo-mrfpaymenttxn- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation SRV Batch Event Publisher Service*	obremo-srv-batch-event- publisher-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server
ITALY Localisation Static Type LOV Service*	obremo-statictype- service-6.0.0.war	{unzip the file} OBBRN_ITALY_LOCALISATION \SERVICES	Servicing Managed Server

**NOTE**: ITALY localization specific service war should be deployed only if it is an ITALY localization implementation.

## 5.3 Steps to Deploy as Application

To deploy application, refer to **How to deploy** section in ANNEXURE-1.



# 6. Oracle Banking Branch Kafka Setup

The topics needs to be created after the installation of Kafka. For installation of Kafka, refer to **Plato Infrastructure Software Deployment** chapter in Oracle Banking Microservices Platform Foundation Installation Guide.

For e-mail approval and Customer notification, create below topic:

AlertMessage

To integrate Oracle FLEXCUBE Onboarding with Oracle Banking Branch, create below topic:

InitialFundingAck



# 7. OAS/OWCC Server Configuration

## 7.1 Introduction

This section describes the Oracle Analytics Server (OAS) and Oracle Webcenter Content (OWCC) server related configuration for Oracle Banking Branch Installation.

### 7.2 Prerequisite

- 1. Machine should have Java JDK has installed.
- 2. Oracle Analytics Server (OAS) and Oracle Webcenter Content (OWCC) has to be installed on the machine.

NOTE: For the exact version to be installed, refer to **Software Pre-requisites** section in **License Guide** 

#### 7.3 Configurations for OWCC Server

Configure the OWC server as follows:

- 1. Execute the query select \* from properties where key like '%dms%';
- 2. Update the keys to the value of DMS server. The sample key values are provided below:

Кеу	Value
dmsServiceUrl	http://hostname:port/_dav/cs/idcplg
dmsServiceUsrname	admin
dmsServicePwd	admin123

## 7.4 Configurations for OAS

Configure the analytics server as follows:

- 1. Execute the query select \* from properties where application like '%cmc-report%';
- 2. Update the following values of analytics server. The sample key values are provided below:

Кеу	Value
BIPublisherUrl	http://hostname:port/xmlpserver/services/v2/ReportService
userID	admin
password	admin123
runReportTemplate	templates/12.3/RunReport.vm



Key	Value
BIReportPublisherUrl	http://hostname:port/xmlpserver/services/v2/ReportService
emailTemplate	emailTemplate



# 8. SSL Configuration

#### 8.1 Introduction

This section describes the SSL configuration for Oracle Banking Branch Installation.

## 8.2 Prerequisite

Oracle Weblogic domain with managed servers needs to be created.

## 8.3 Configurations for SSL

To configure SSL in Oracle Banking Branch, perform the following steps:

- 1. Enable SSL in *plato-api-gateway service* deployed managed server and appshell deployed managed server.
- 2. Update the SSL URL in PLATOUI schema's table *PRODUCT\_SERVICES\_ENV\_LEDGER* For example, https://<localhost>:<SSL\_PORT>.
- 3. Update the placeholder -Dapigateway.url value in setUseroverride.sh file to the SSL link. For example,
  - JAVA\_OPTIONS="\${JAVA\_OPTIONS} -Dapigateway.url=https://<localhost>:<SSL\_PORT>" export JAVA\_OPTIONS;
- 4. Restart all the managed servers.



# 9. Restarts and Refresh

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

## 9.1 Restarting Servers

To restart the server, refer to **How to restart** section in ANNEXURE-1.



# 10.Logging Area

## 10.1 Introduction

This part of the document will talk about the logs area where after deployment of Oracle Banking Branch Applications in WebLogic server.

#### 10.1.1 Logging Area

Oracle Banking Branch Application writes logs in the below area of the server-

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

For example, a domain has been created **party\_domain** with **managed\_server** name called **PARTYAPP** in the following area of the server

- ~/middleware/user\_projects/domains/**party\_domain**". Logging area for Oracle Banking Branch applications would be
- ~/middleware/user\_projects/domains/party\_domain/servers/PARTYAPP/logs/PARTYAPP.out.



# 11.Oracle Banking Branch UI Domain and Cluster Configuration

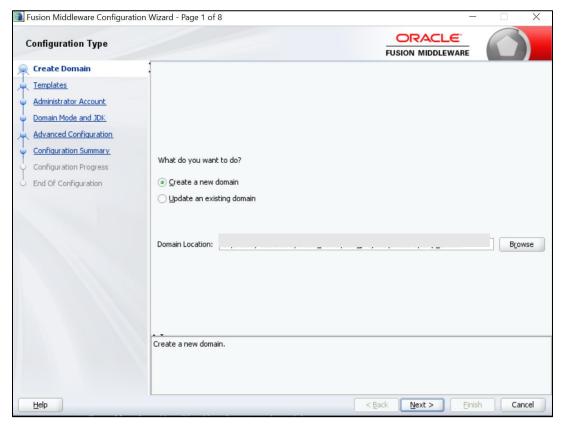
## 11.1 Prerequisites

- 1. Machine should have Java JDK has installed.
- 2. Oracle Fusion Middleware Infrastructure has to be installed on the machine.

**NOTE**: For the exact version to be installed, refer to **Software Pre-requisites** section in **License Guide**.

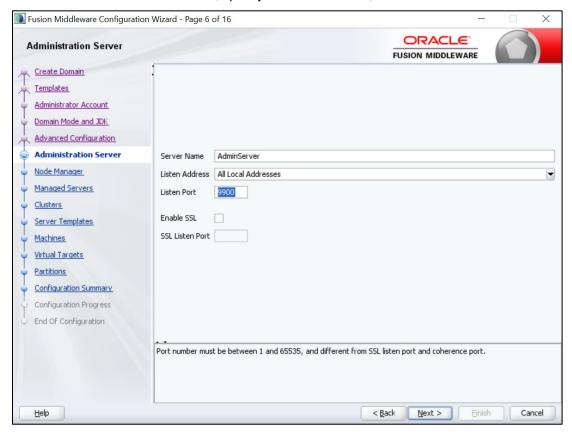
## 11.2 Oracle Banking Branch UI Domain (OBBRNUI)

1. Click **Create Domain** tab, and select **Create a new domain** option. Specify the domain location.



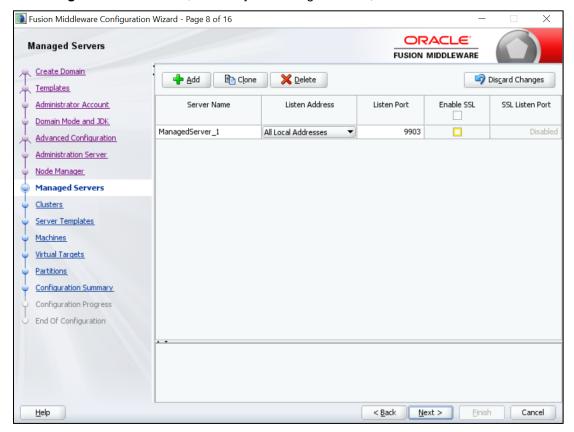


2. On Administration Server screen, specify the server details, and click Next.



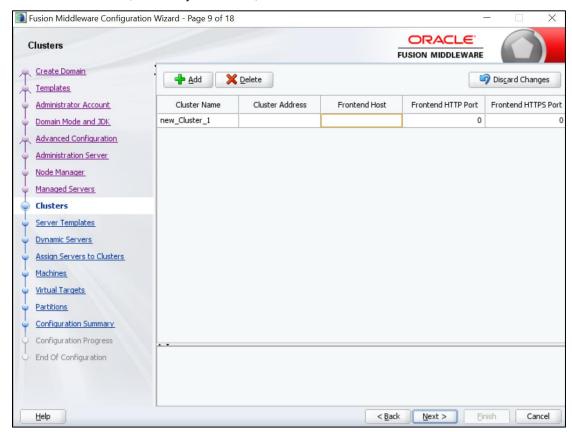


3. On Managed Servers screen, add entry for managed server, and click Next.



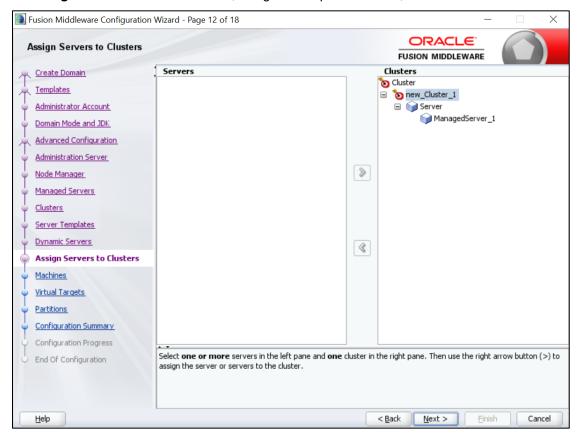


4. On Clusters screen, add entry for cluster, and click Next.



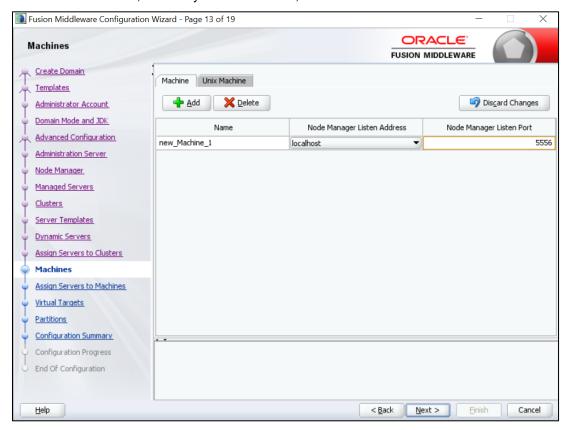


5. On Assign Server to Cluster screen, assign the required servers, and click Next.



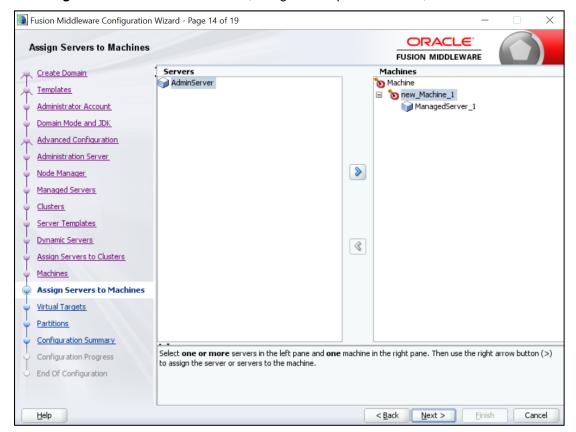


6. On Machines screen, add entry for the machine, and click Next.



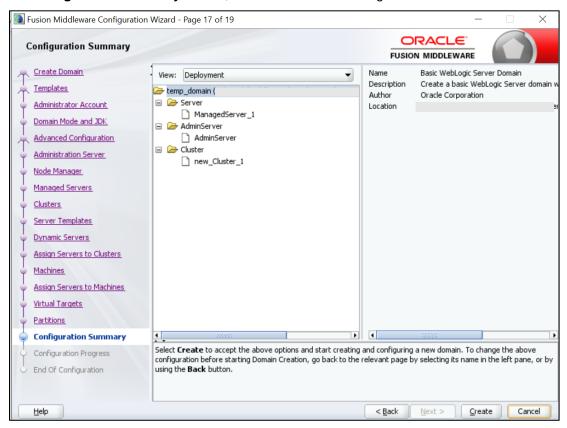


7. On Assign Server to Machines screen, assign the required machine, and click Next.

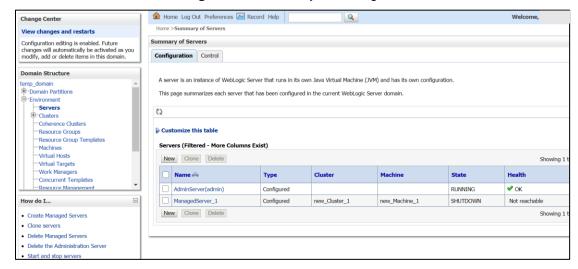




8. On Configuration Summary screen, and click Create to configure a new domain.



9. Click Servers tab, select Configuration, and verify the configuration details of server.

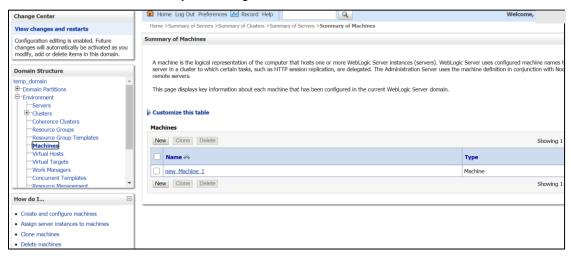




10. Click Clusters tab, and verify the configuration details of cluster.



11. Click **Machines** tab, and verify the configuration details of machine.



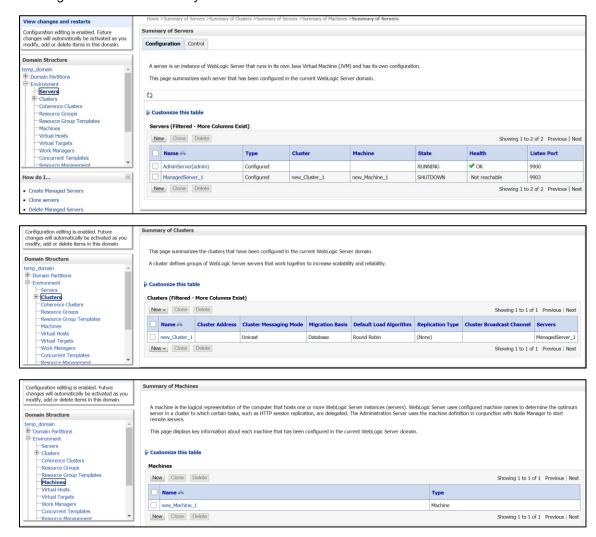
## 11.3 Post Domain creation configurations

Once finished, refer oracle fusion middleware documents for more details on how to start admin server, node manager and managed servers.

- Create boot.properties file under /user\_projects/domains/XXXXdomainNameXXX/servers/AdminServer/security.
- 2. Edit **boot.properties** and give username and password details.
- 3. Goto /user\_projects/domain/sms\_domain/bin.
- 4. Run **startWeblogic.cmd** (or **.sh** if operating system is linux).
- 5. Goto /user\_projects/domains/ sms \_domain/bin.
- Run setNMJavaHome.cmd (.sh).
- 7. Goto /user\_projects/domains/ sms \_domain/nodemanager.
- And edit nodemanager.properties as required(securelistner = false if ssl and keystore is not given) And in admin console also navigate to Machines- > sms\_Machine -> Node Manager -> Type -> Plain -> Save.
- 9. Navigate to /user\_projects/domains/ sms \_domain/bin.
- 10. Run startNodeManager.cmd (or .sh if operating system is linux ).
- 11. Start all managed servers.



#### 12. Login to console and verify servers and clusters.





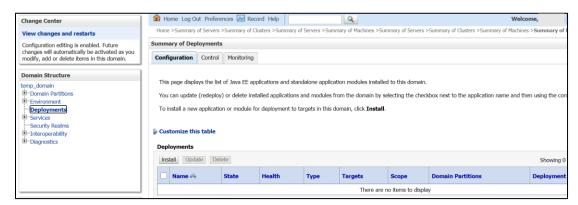
# 12.Oracle Banking Branch User Interface Deployments

#### 12.1 Steps to deploy as application

NOTE: Server names, Domain names need not to be same as this doc provides.

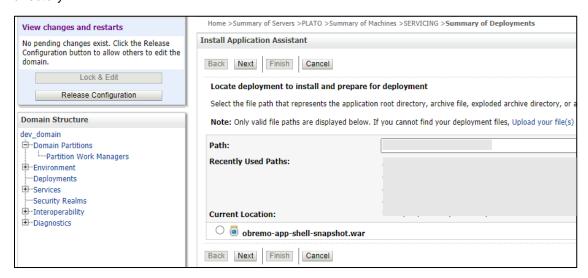
Steps to Deploy archives as application on weblogic is same for all the above except for managed server and domain where we deploy will differ. Find the below screenshots to see how deployment of archive as application is done on weblogic:

- 1. Extract the zip file under **UI** folder.
- 2. Open app-shell\common\js\util\config\config.json file change apiGatewayURL to point plato-api-gateway URL.
- 3. Copy app-shell folder and paste it to your server. E.g. scratch/deployment.
- 4. Open Weblogic console and navigate to the **Deployments**.





5. Click **Install**, paste folder location on path and press **Enter** key, select the app\_shell directory.



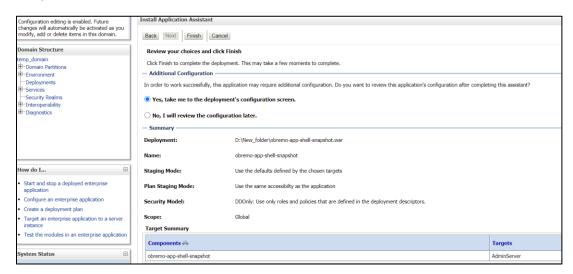
6. Check the option install this deployment as an application option and click Next.



7. Name the deployment as app\_shell and click Next.



8. Check the option Yes, take me to the deployment's configuration screen and click Finish.



Navigate to the Control tab and click start. Select the option Servicing all requests and Click Yes.



 Verify state is Active. If yes, open the URL in this format: http://HostName:PortNo/app-shell/

**NOTE:** In order to remove the options call from UI to service, user need to deploy *appshell* and other UI components in the same managed server, where *plato-api-gateway* was deployed. This will reduce the unnecessarily network calls to the backend. This step is optional.

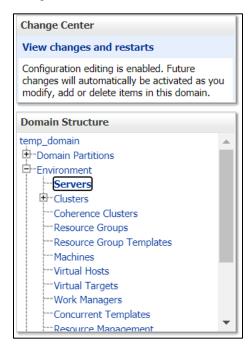


### 13. Restarts and Refresh

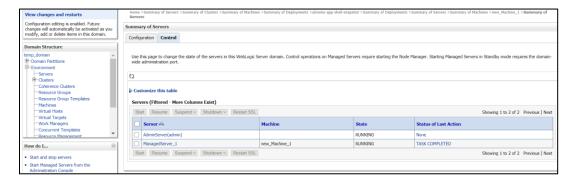
Once everything is deployed, restart all the managed servers. And for each application call path **/refresh** for refreshing the configuration properties.

### 13.1 Restarting Servers

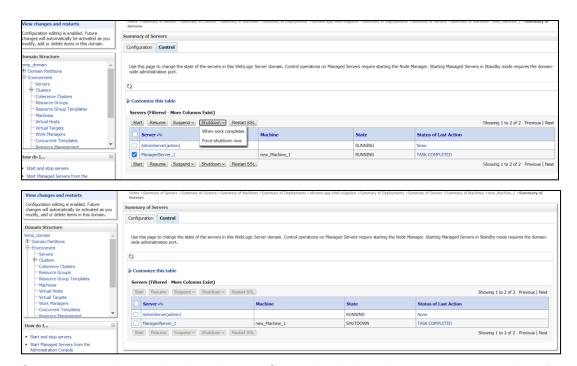
1. Navigate to **Environment** and then click **Servers**.



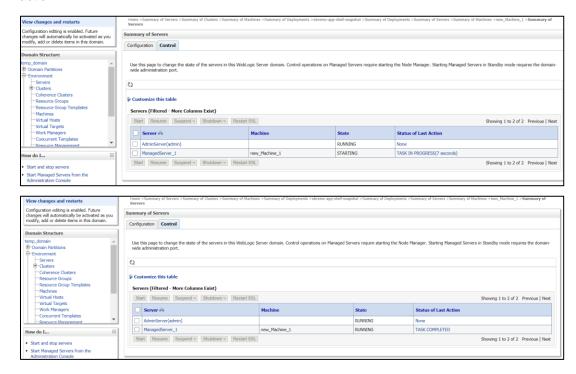
2. Click Control tab and select servers to shut down, and click Yes to confirm shutdown.







3. Once shutdown is completed, navigate to **Control** and select the servers to start and confirm action.





4. When all requested servers are running, navigate to **Deployments** and check if deployments are in active state.





# 14.Deployments

## 14.1 Oracle Banking Branch Processes

Below are the list of Conductor based processes which have to be deployed for the Oracle Banking Branch.

Serial Number	Process Name	Dependent process
1	ACCOUNTADDRESSUPDATE	None
2	CUSTOMERADDRESSUPDATE	None
3	CUSTOMERCONTACTUPDATE	None
4	CMC_CHARGES_Consumer (OBRH json config for RP integration)	None
5	PLATOCORE_Consumer (OBRH json config for Account Replication)	None
6	CASA Statement	None
7	CASA Status	None
8	JointHolder	None
9	Modify SI	None
10	Nominee Update	None
11	SI Transfer	None
12	Stop Cheque	None
13	Sweep In to CASA	None
14	Sweep Out CASA	None
15	TD Instruction	None
16	TemporaryOverdraft	None
17	Account Statement Frequency	None
18	Activate Dormant	None
19	Address Update	None
20	Amount Block	None
21	Branch Transfer	None
22	Card Status	None
23	Cheque Book Request	None



**NOTE:** The json files for the CMC\_CHARGES\_Consumer and PLATOCORE\_Consumer processes will be available in the folder COMMON\_CORE\_ROUTING\_CONFIGURATION from the Oracle Banking Branch sources.

#### 14.2 Updating the process

Before deploying the process the following section 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.

"uri": "http://{{PROCESS\_SERVER\_HOST}}:{{PROCESS\_SERVER\_PORT}}/

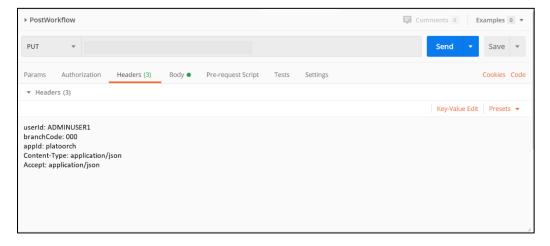
{{PROCESS SERVER HOST}} - IP of the Conductor server.

{{PROCESS\_SERVER\_PORT}} - Port of the Conductor server

#### 14.3 Steps to Deploy Conductor Process

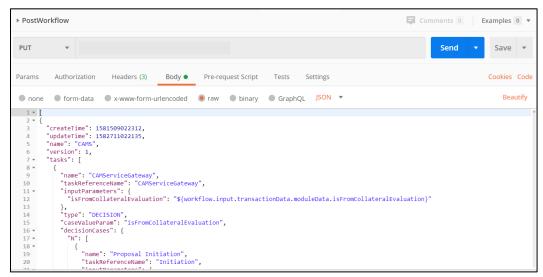
**NOTE**: Server names, Domain names need not to be same as this document provides. Steps to Deploy a process remains the same for all the workflow files:

- 1. Launch Postman.
- 2. Create a new Request (if not done already) and select **POST** method. If the process flow is already deployed and if you want to update it, then the method should be "PUT".
- 3. Input the header params as shown below:





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



5. Click **Send**. Response status **204** returned from server.





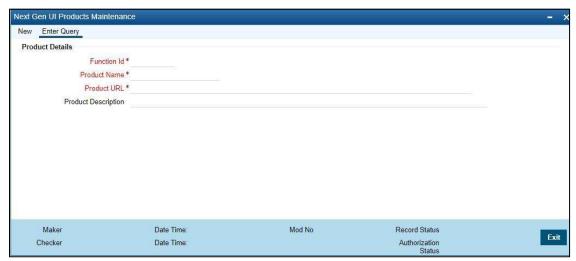
## 15.Launching Oracle Banking Branch from UBS

#### 15.1 Introduction

In this section you are going to setup database related configuration for Oracle Banking Branch Installation. It is recommended to create different schema for each application. Below setup is designed to work with separate schema for each application.

#### 15.2 FCUBS Configurations

After Login to FCUBS environment click on **Next Generation UI** Menu and launch the maintenance screen **CSDNGUIM**. Ensure that user has roles for the screen. Update the Plato Product URL.



A new Function id **NGTELLER** is released as Static Data and Ensure user roles has been maintained for the same. Once the roles are maintained Click **Next Gen UI** on tool bar. **Next Gen UI Dashboard** will be displayed with the list of products. Click **Retail** product, which will Launch **Plato Teller Dash Board**. Ensure the same user id is maintained in for the retail product and it has necessary roles.

#### 15.3 PLATO Configurations

**SECURITY\_CONFIG** table in PLATO\_SECURITY schema should have the following entries. In addition, SSL should be enabled in Oracle Banking Branch application.

Key	Value
INTEGRATION_ENABLED	true
INTEGRATION_CALLBACK_URL	https://FCUBShostname:FCUBSport/FCJNeoWeb/Vali
	dationService/FCNonceValidation/validate
IS_SSO_CONFIGURED	true
AUTO_TOKEN_REGENERATE_	true
MODE	

Please update the FCUBS hostname and port number in the above URL.



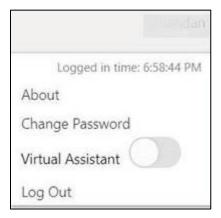
## **16.Oracle Digital Assistant Configuration**

#### 16.1 Introduction

Oracle Banking Branch has to interface with Oracle Digital Assistance (ODA) for Chatbot use cases. To address above requirement, the Plato Digital Assistant wizard CCA is having configuration to connect to ODA. This wizard contain enabling of Oracle Digital Assistant's Client SDK for JavaScript to add live messaging to web application.

#### 16.2 Plato Setup

On User Profile menu, a switch is added in user info panel, to enable/disable Digital Assistance.



The web-sdk will display chat bot icon, which can be used for communication with Oracle Digital Assistant's Server.





### **16.3 PLATO Configurations**

**PRODUCT\_SERVICES\_CTX\_LEDGER** table in PLATOUI schema should have the following entries.

Key	Value
Product Name	ODA
Service Name	odaservice
Service Context Path	/api-gateway/
Header App Id	URI,Channelld and SECRET values to be fetched from ODA server configured to communicate with ODA client i.e web-sdk. values to be fetched from ODA server configured to communicate with ODA client i.e web-sdk. isODA flag needs to be set to "Y" in order to enable chatbot wizard.

**PRODUCT\_SERVICES\_ENV\_LEDGER** table in PLATO schema should have the following entries.

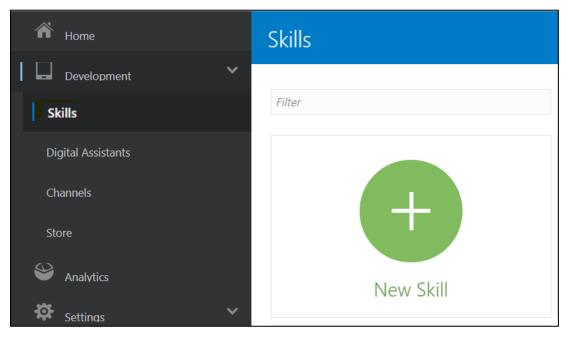
Key	Value
Product Name	ODA
URL	https://hostname:platodiscoveryport/

Please update the hostname and port number in the above URL.

#### 16.4 API Gateway Configuration Setup

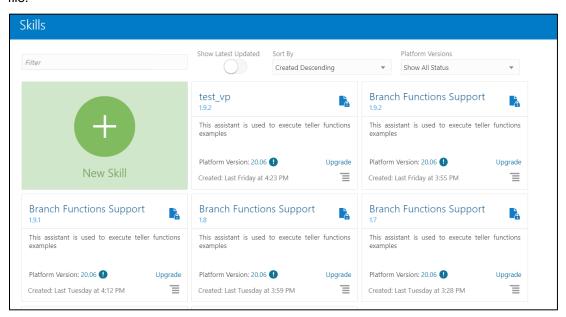
The user need to configure the API Gateway and publish the skills. Perform the following steps to configure API Gateway:

- 1. Open Oracle ODA Deployment URL.
- 2. Specify the username and password, and log in to ODA Homepage.
- 3. Click Skills in the menu.

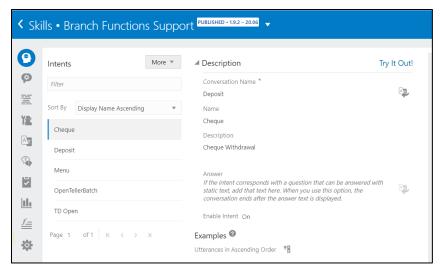




4. Import the skill, which you need to configure from OBBRN\_ODA/BranchFunctions(1.8).zip file.

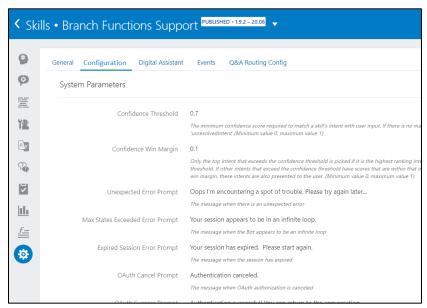


5. Click settings icon.

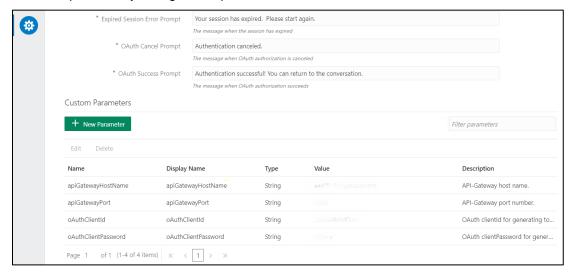




6. Click Configuration tab.



7. Add the Api-Gateway configuration parameters as shown below:

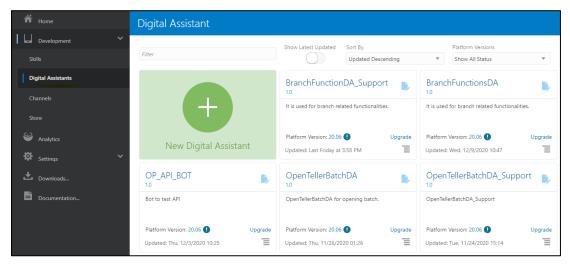




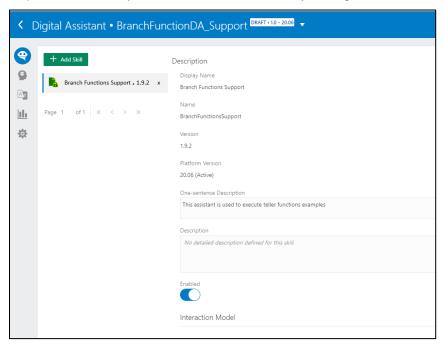
### 16.5 Map the Skill to Digital Assistant

Perform the following steps to map the skill to Digital Assistant:

1. Click **Digital Assistants** in the menu.



2. Map the skill, which you have created earlier with your Digital-Assistants.

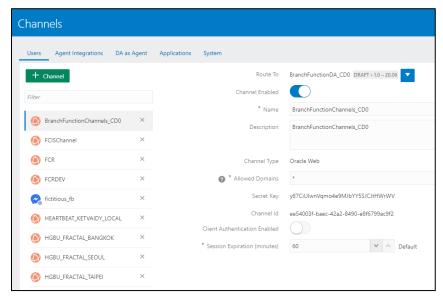




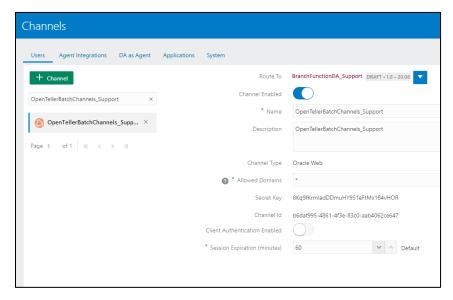
### 16.6 Map Digital Assistant to Channel

Perform the following steps to map the Digital Assistant to Channel:

1. Click Channels in the menu.



2. Map the Digital Assistant with the necessary channels. Specify the **Channel Type** as **Oracle Web** and the **Allowed Domains** as \*.







#### **Installation Guide**

May 2021

Version 14.5.0.0.0

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