

# Oracle® Banking Virtual Account Management Pre-Installation Guide



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# Contents

## Preface

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|                             |    |
|-----------------------------|----|
| Purpose                     | i  |
| Audience                    | i  |
| Documentation Accessibility | i  |
| Critical Patches            | i  |
| Diversity and Inclusion     | ii |
| Related Resources           | ii |
| Conventions                 | ii |
| Acronyms and Abbreviations  | ii |

## 1 Installation Process

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|                                                            |   |
|------------------------------------------------------------|---|
| 1.1 Oracle Banking Microservices Architecture Installation | 2 |
| 1.2 SMS Installation                                       | 3 |
| 1.3 Common Core Installation                               | 3 |

## A Annexure

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## Index

---

# Preface

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)
- [Acronyms and Abbreviations](#)

## Purpose

This guide describes the order (sequence) in which the user must proceed with the installation process. The common services required by the Oracle Banking Virtual Account Management application are also listed.

## Audience

This guide is intended for WebLogic admin or ops-web team who are responsible for installing the OFSS 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

The related documents are as follows:

- *Configuration and Deployment Guide* (for LDAP Setup)

## Conventions

The following text conventions are used in this document:

| Convention      | Meaning                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b> | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.         |
| <i>italic</i>   | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.                          |
| monospace       | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

## Acronyms and Abbreviations

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

**Table 1** Acronyms and Abbreviations

| Abbreviation | Description                           |
|--------------|---------------------------------------|
| LDAP         | Lightweight Directory Access Protocol |
| OSDC         | Oracle Software Delivery Cloud        |
| SMS          | Security Management System            |

# 1

## Installation Process

This topic describes the order (sequence) in which the user must carry on the installation process.

### Execution Order of Installation Guide

Oracle Banking Virtual Account Management installation is executed in the below sequence:

- Oracle Banking Microservices Architecture Installer Guide
- *Oracle Banking Microservices Platform Foundation Installation Guide*
- *Security Management System Services Installation Guide*
- *Common Core Services Installation Guide*
- *Oracle Banking Virtual Account Management Installation Guide*

### Prerequisites

The OSDC package consists of the four zip files. Before proceeding with the installation, unzip the files into the same common folder.

- OBVAM\_{release number}\_CD1.zip
- OBVAM\_{release number}\_CD2.zip
- OBVAM\_{release number}\_CD3.zip
- OBVAM\_{release number}\_CD4.zip

#### Note

For the release number, refer to the OSDC file available as a part of the release.

### Software Prerequisite List

The list of software prerequisites are as follows:

- Oracle Database Enterprise Edition
- Oracle WebLogic Server Standard Edition
- LDAP server
- Apache Kafka
- Apache ZooKeeper
- Conductor server

The common services required by Oracle Banking Virtual Account Management application are listed below:

- Oracle Banking Microservices Architecture Installation
- SMS Installation

- Common Core Installation
- [Oracle Banking Microservices Architecture Installation](#)
- [SMS Installation](#)
- [Common Core Installation](#)

## 1.1 Oracle Banking Microservices Architecture Installation

### List of Services

The list of services required for Oracle Banking Virtual Account Management are as follows:

- PLATO-CONFIG-SERVICE
- PLATO-DISCOVERY-SERVICE
- PLATO-COHERENCE-SERVER
- PLATO-APIGATEWAY-ROUTER
- PLATO-API-GATEWAY
- PLATO-UI-CONFIG-SERVICES
- PLATO-BATCH-SERVER
- PLATO-FEED-SERVICES
- PLATO-O
- PLATO-ORCH-SERVICE
- PLATO-REPORT-SERVICE
- PLATO-ALERTS-MANAGEMENT-SERVICES
- SFS-ALERTS-SERVICES

#### Note

For further details on deployments, refer to **Oracle Banking Microservices Platform Foundation Installation Guide**.

### Domain Configuration

Copy the below files from the OSDC path to Oracle Banking Microservices Architecture <domain>/bin folder.

- pre\_deployment\_setup\plato-config-deploy.env  
This file is applicable only for plato-config-service. Edit this file and provide the appropriate values.
- pre\_deployment\_setup\domain-config-deploy.env  
This file is applicable for rest of the Oracle Banking Microservices Architecture services. Edit this file and provide the appropriate values
- pre\_deployment\_setup\weblogic\setUserOverrides.sh

**Note**

For providing the property values, refer to [Annexure](#) section of this document.

## 1.2 SMS Installation

### List of Services

The list of services required for Oracle Banking Virtual Account Management are as follows:

- SMS-CORE-SERVICES

### Domain Configuration

Copy the below files from the OSDC path to <domain>/bin folder.

- pre\_deployment\_setup\domain-config-deploy.env  
Edit this file and provide the appropriate values.
- pre\_deployment\_setup\weblogic\setUserOverrides.sh

**Note**

For further details on deployments, refer to ***Security Management System Services Installation Guide***.

## 1.3 Common Core Installation

### List of Services

The list of services required for Oracle Banking Virtual Account Management are as follows:

- CMC-ACCOUNT-SERVICES
- CMC-ADVICE-SERVICES
- CMC-BASE-SERVICES
- CMC-BRANCH-SERVICE
- CMC-BATCH-SERVICES
- CMC-BUSINESSOVERRIDES-SERVICES
- CMC-CUSTOMER-SERVICES
- CMC-CURRENCY-SERVICES
- CMC-DATASEGMENT-SERVICES
- CMC-EXTERNAL-SYSTEM-SERVICES
- CMC-SETTLEMENTS-SERVICES
- CMC-TXN-CODE-SERVICES
- CMC-EXTERNAL-CHART-ACCOUNT
- CMC-ADVICE-SERVICES



- CMC-RESOURCECLASS-SERVICES
- CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE
- CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES
- CMC-COREBANKING-ADAPTER-SERVICE
- CMC-TRANSACTIONCONTROLLER-SERVICES
- CMC-SCREENCLASS-SERVICES
- CMC-OBRH-SERVICES
- CMC-OBRH-KAFKA-CONSUMER
- CMC-CHARGES-CALCULATION-SERVICES

### Domain Configuration

Copy the below files from the OSDC path to <domain>/bin folder.

- pre\_deployment\_setup\domain-config-deploy.env  
Edit this file and provide the appropriate values.
- pre\_deployment\_setup\weblogic\setUserOverrides.sh

#### Note

For further details on deployments, refer to ***Common Core Services Installation Guide***.

# A

## Annexure

### plato-config-deploy.env

The below properties have fixed values and should not be changed.

**Table A-1 Table A-1 plato-config-deploy.env - Property Values (Fixed Values)**

| Serial Number | Property                                            | Value                                                                                                                             |
|---------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1             | flywayTask                                          | migrate                                                                                                                           |
| 2             | flyway.enabled                                      | true                                                                                                                              |
| 3             | spring.flyway.enabled                               | false                                                                                                                             |
| 4             | plato-config.flyway.domain.locations                | db/migration/domain/plato, db/migration/domain/sms, db/migration/domain/cmc, db/migration/domain/obvam, db/migration/domain/vamlm |
| 5             | flyway.domain.placeholders.plato-feed-services.jndi | jdbc/PLATOFEED                                                                                                                    |
| 6             | flyway.domain.placeholders.plato-batch-server.jndi  | jdbc/PLATOBATCH                                                                                                                   |
| 7             | flyway.domain.placeholders.plato.jndi               | jdbc/PLATO                                                                                                                        |
| 8             | flyway.domain.placeholders.plato-config.jndi        | jdbc/PLATO                                                                                                                        |
| 9             | flyway.domain.placeholders.plato-sec.jndi           | jdbc/PLATO_SECURITY                                                                                                               |
| 10            | flyway.domain.placeholders.plato-ui-config.jndi     | jdbc/PLATO_UI_CONFIG                                                                                                              |
| 11            | flyway.domain.placeholders.sms.jndi                 | jdbc/sms                                                                                                                          |
| 12            | flyway.domain.placeholders.cmncore.jndi             | jdbc/CMNCORE                                                                                                                      |
| 13            | flyway.domain.placeholders.eie.jndi                 | jdbc/EIE                                                                                                                          |
| 14            | flyway.domain.placeholders.elm.jndi                 | jdbc/ELM                                                                                                                          |
| 15            | flyway.domain.placeholders.vam.jndi                 | jdbc/VAM                                                                                                                          |
| 16            | flyway.domain.placeholders.vac.jndi                 | jdbc/VAC                                                                                                                          |
| 17            | flyway.domain.placeholders.vab.jndi                 | jdbc/VAB                                                                                                                          |
| 18            | flyway.domain.placeholders.vae.jndi                 | jdbc/VAE                                                                                                                          |
| 19            | flyway.domain.placeholders.eda.jndi                 | jdbc/EDA                                                                                                                          |
| 20            | flyway.domain.placeholders.vai.jndi                 | jdbc/VAI                                                                                                                          |
| 21            | flyway.domain.placeholders.van.jndi                 | jdbc/VAN                                                                                                                          |
| 22            | flyway.domain.placeholders.vap.jndi                 | jdbc/VAP                                                                                                                          |
| 23            | flyway.domain.placeholders.vas.jndi                 | jdbc/VAS                                                                                                                          |
| 24            | flyway.domain.placeholders.vat.jndi                 | jdbc/VAT                                                                                                                          |
| 25            | flyway.domain.placeholders.obic.jndi                | jdbc/VAM                                                                                                                          |
| 26            | flyway.domain.placeholders.obvamic.jndi             | jdbc/VAM                                                                                                                          |
| 27            | flyway.domain.placeholders.platoorch.domain.jndi    | jdbc/PLATO-O                                                                                                                      |
| 28            | flyway.domain.placeholders.plato-config.db.jndi     | jdbc/PLATO                                                                                                                        |
| 29            | flyway.domain.placeholders.vamlmchg.jndi            | jdbc/VAMLMCHG                                                                                                                     |
| 30            | flyway.domain.placeholders.iep.jndi                 | jdbc/VIE                                                                                                                          |

**Note**

For the complete properties of plato-config-deploy.env file, refer to the folder / pre\_deployment\_setup under OSDC zip. The user must provide appropriate values for the key which are not listed in the above table.

### domain-config-deploy.env

The below properties have fixed values and should not be changed.

**Table A-2 Table A-2 domain-config-deploy.env - Property Values (Fixed Values)**

| Serial Number | Property                              | Value   |
|---------------|---------------------------------------|---------|
| 1             | flywayTask                            | migrate |
| 2             | flyway.enabled                        | true    |
| 3             | spring.flyway.enabled                 | false   |
| 4             | flyway.domain.ignoreMissingMigrations | true    |
| 5             | flyway.domain.outOfOrder              | true    |

Provide the appropriate values for the following fields.

**Table A-3 Table A-3 domain-config-deploy.env - Property Values (Appropriate Values)**

| Serial Number | PROPERTY                                         | VALUE                            |
|---------------|--------------------------------------------------|----------------------------------|
| 1             | spring.cloud.config.uri                          | <config service uri>             |
| 2             | apigateway.url                                   | <apigateway url>                 |
| 3             | service.logging.environment                      | <environment> example: DEV, TEST |
| 4             | service.logging.path                             | <application debug logs path>    |
| 5             | flyway.domain.placeholders.user.mapping.required | <User mapping required>          |
| 6             | feed.recordLevelApprovalReqd                     | <true or false>                  |
| 7             | conductor.properties                             | Path to /config.properties       |
| 8             | flyway.domain.placeholders.INTEGRATION.ENABLED   | true or false                    |
| 9             | flyway.domain.placeholders.pswd.validation.flag  | Y or N                           |
| 10            | flyway.domain.placeholders.min.pswd.length       | <Min Password Length>            |
| 11            | flyway.domain.placeholders.max.pswd.length       | <Max Password Length>            |
| 12            | flyway.domain.placeholders.min.pswd.age          | <Min Password Age>               |
| 13            | flyway.domain.placeholders.max.pswd.age          | <Max Password Age>               |
| 14            | flyway.domain.placeholders.upper.char.flag       | Y or N                           |
| 15            | flyway.domain.placeholders.upper.char.count      | <Count>                          |
| 16            | flyway.domain.placeholders.lower.char.flag       | Y or N                           |
| 17            | flyway.domain.placeholders.lower.char.count      | <Count>                          |
| 18            | flyway.domain.placeholders.special.char.flag     | Y or N                           |
| 19            | flyway.domain.placeholders.special.char.count    | <Count>                          |
| 20            | flyway.domain.placeholders.numeric.char.flag     | Y or N                           |
| 21            | flyway.domain.placeholders.numeric.char.count    | <Count>                          |

**Table A-3 (Cont.) Table A-3 domain-config-deploy.env - Property Values (Appropriate Values)**

| Serial Number | PROPERTY                                 | VALUE |
|---------------|------------------------------------------|-------|
| 22            | spring.cloud.loadbalancer.ribbon.enabled | false |

**Note**

- Below are recommended properties for Kafka resiliency on 3-node cluster. Ensure exactly same set of properties are referred for all domains/services over and above existing set of properties. This impacts the complete resiliency of all services for event flow.
- For complete Kafka Configuration, and Conductor properties refer to **Conductor Installation, Zookeeper Cluster, Kafka cluster Setup, Kafka Security Setup, Kafka Client Side Adoption** sections in **Oracle Banking Microservices Platform Foundation Installation Guide** for conductor properties.
- For the complete properties of domain-config-deploy.env file, refer to the folder / pre\_deployment\_setup under OSDC zip.

## Resiliency

**Table A-4 Table A-3 (Cont.) domain-config-deploy.env - Property Values (Appropriate Values)**

| Serial Number | PROPERTY                                                              | VALUE |
|---------------|-----------------------------------------------------------------------|-------|
| 23            | spring.cloud.stream.kafka.binder.autoCreateTopics                     | true  |
| 24            | spring.cloud.stream.kafka.default.producer.sync                       | true  |
| 25            | spring.cloud.stream.kafka.binder.replicationFactor                    | 3     |
| 26            | spring.cloud.stream.kafka.binder.requiredAcks                         | all   |
| 27            | spring.cloud.stream.kafka.binder.autoAddPartitions                    | true  |
| 28            | spring.cloud.stream.default.producer.partitionCount                   | 3     |
| 29            | spring.cloud.stream.default.consumer.concurrency                      | 3     |
| 30            | spring.cloud.stream.kafka.default.producer.configuration.max.block.ms | 5000  |

**Note**

- For the complete properties of domain-config-deploy.env file, refer to the folder / pre\_deployment\_setup under OSDC zip.
- For Conductor Properties, refer to **Conductor Installation** section in **Oracle Banking Microservices Platform Foundation Installation Guide** for conductor properties.

# Index