

Oracle® Banking Virtual Account Management Installation Guide



Release 14.6.1.0.0

F61105-01

August 2022

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

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Preface

Purpose

This guide helps to install the Oracle Banking Virtual Account Management services on designated environment. It is assumed that all the prior setup is already done related with WebLogic installation, WebLogic managed server creation and Oracle DB installation.

 **Note:**
For the exact version to be installed, refer to **Software Prerequisites** section in .

Audience

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

Acronyms and Abbreviations

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

Table 1 Acronyms and Abbreviations

| Abbreviation | Description |
|--------------|---------------------------------------|
| CMC | Common Core |
| EOD | End of Day |
| LDAP | Lightweight Directory Access Protocol |
| SMS | Security Management System |

Organization

This guide allows to install the following services in same order:

- OBVAM-ACCOUNT-SERVICES
- OBVAM-CORE-SERVICES
- OBVAM-ECA-SERVICES
- OBVAM-ENTITY-SERVICES
- OBVAM-EXTERNAL-DDA-SERVICES
- OBVAM-IDENTIFIER-SERVICES
- OBVAM-INTERNAL-TRANSFER-SERVICES

- OBVAM-STATEMENT-SERVICES
- OBVAM-STMT-ENT-ADAPTER
- OBVAM-TRANSACTION-JOURNAL-SERVICES
- EXTERNAL-LIQUIDITY-MANAGEMENT-SERVICE
- EXTERNAL-INTEREST-ENGINE-SERVICE
- OBVAM-PROJECTION-SERVICES
- VAMLM-CHARGE-SERVICES

User Interface

Follow the below steps to migrate from existing app-shell build to Foundation app-shell. The 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 components server, deploy the war files mentioned below:

- app-shell
- cmc-component-server
- moc-component-server
- sms-component-server

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

- obvam-component-server
- obvamlm-component-server

List of Topics

This guide is organized as follows:

Table 2 List of Topics

| Topics | Description |
|--------------------------------------|--|
| Database Setup | This topic provides the information about setup database setup related configuration for Oracle Banking Virtual Account Management installation. |
| Domain Configuration | This topic provides the configuration of Oracle Banking Virtual Account Management domains. |
| Data Source Creation | This topic provides the information about the creation of data sources. |
| Deployments | This topic provides the information about the deployments. |
| Initial Setup | This topic provides the information about the initial setup of CMC, SMS, and LDAP. |
| Restart and Refresh | This topic provides the information about the restart and refresh. |
| Workflow Setup | This topic provides the information about the setup of workflow. |
| Logging Area | This topic provide the information about the logging area. |

Related Documents

The related documents are as follows:

- *Oracle Banking Microservices Platform Foundation Installation Guide*

- *Oracle Banking Virtual Account Management Pre-Installation Guide*
- *ANNEXURE-1*

1

Database Setup

This topic describes the database setup for Oracle Banking Virtual Account Management Installation.

It is recommended to create a different schema for each application. The below setup is designed to work with the separate schema for each application.

Prerequisites

Before proceeding with the below setup, make sure that the required schemas are provided.

2

Domain Configuration

This topic describes the domain configuration for Oracle Banking Virtual Account Management.

Prerequisites

- The machine should have Java JDK is installed.
- Oracle Fusion Middleware has to be installed on the machine.

 **Note:**

For the exact version to be installed, refer to the **Software Prerequisites** section in **Release Notes**.

- Copy the below files from the OSDC path to <domain>/bin folder
 - pre_deployment_setup \ domain-config-deploy.env
 - pre_deployment_setup \ weblogic \ setUserOverrides.sh

 **Note:**

For property values, refer to the **Annexure: domain-config-deploy.env** section in **Oracle Banking Virtual Account Management Pre-Installation Guide**.

List of Domains

It is recommended to create separate domains for Oracle Banking Virtual Account Management applications.

- OBVAM Core Domain
- OBVAM Entities Domain
- OBVAM Accounts Domain
- OBVAM Identifiers Domain
- OBVAM Transaction Journal Domain
- OBVAM Transaction Internal Booking Domain
- OBVAM DDA Domain
- OBVAM External Credit Assessment Domain
- OBVAM Statements Domain
- OBVAM Statements Entity Aggregator Domain
- OBVAM External Liquidity Management Domain

- OBVAM External Interest Engine Domain
- OBVAM Projection Server Domain
- OBVAM Appshell Domain
- VAMLM Charges Domain

 **Note:**

For creating and configuring the domain, refer to the **Domain and Cluster Configuration** section in **ANNEXURE-1**.

3

Data Source Creation

This topic describes the data source creation for Oracle Banking Virtual Account Management Installation.

Prerequisites

Before proceeding with deployment setup, make sure that the database and application setup for Oracle Banking Microservices Architecture is done.

Data Sources List

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

Table 3-1 Data Sources List

| Serial Number | Service Name | Data Source Name | Data Source JNDI | Targets |
|---------------|------------------------|------------------|----------------------|----------------|
| 1 | obvam-account-services | PLATO | jdbc/PLATO | Account Server |
| | | CMC | jdbc/CMNCORE | |
| | | PLATOBATCH | jdbc/PLATOBATCH | |
| | | PLATOFEED | jdbc/PLATOFEED | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| 2 | obvam-core-services | PLATO | jdbc/PLATO | Core Server |
| | | CMC | jdbc/CMNCORE | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAC | jdbc/VAC | |
| 3 | obvam-eca-services | PLATO | jdbc/PLATO | ECA Server |
| | | PLATOBATCH | jdbc/PLATOBATCH | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAB | jdbc/VAB | |
| 4 | obvam-entity-services | PLATO | dbc/PLATO | Entity Server |
| | | CMC | jdbc/CMNCORE | |
| | | PLATOBATCH | jdbc/PLATOBATCH | |
| | | PLATOFEED | jdbc/PLATOFEED | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAE | jdbc/VAE | |

Table 3-1 (Cont.) Data Sources List

| Serial Number | Service Name | Data Source Name | Data Source JNDI | Targets |
|---------------|--|------------------|----------------------|-----------------------------|
| 5 | obvam-external-dda-services | PLATO | jdbc/PLATO | External-DDA Server |
| | | PLATOBATCH | jdbc/PLATOBATCH | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | EDA | jdbc/EDA | |
| 6 | obvam-identifier-services | PLATO | jdbc/PLATO | Identifier Server |
| | | PLATOFEEED | jdbc/PLATOFEEED | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAI | jdbc/VAI | |
| 7 | obvam-internal-transfer-services | PLATO | jdbc/PLATO | Internal Transfer Server |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAN | jdbc/VAN | |
| 8 | obvam-statement-services | PLATO | jdbc/PLATO | Statement Server |
| | | CMC | jdbc/CMNCORE | |
| | | PLATOBATCH | jdbc/PLATOBATCH | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAS | jdbc/VAS | |
| | | PLATOREPORT | jdbc/REPORTSERVICE | |
| 9 | transaction-journal-services | PLATO | jdbc/PLATO | Transaction Journal Server |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAT | jdbc/VAT | |
| 10 | external-liquidity-management-service services | PLATO | jdbc/PLATO | Liquidity Management Server |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | ELM | jdbc/ELM | |
| 11 | external-interest-engine-service services | PLATO | jdbc/PLATO | Interest Engine Server |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | EIE | jdbc/EIE | |
| 12 | obvam-projection-services | PLATO | jdbc/PLATO | Projection Server |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAP | jdbc/VAP | |
| 13 | vamlm-charge-services | PLATO | jdbc/PLATO | Charges Server |
| | | CMC | jdbc/CMNCORE | |
| | | PLATOBATCH | jdbc/PLATOBATCH | |

Table 3-1 (Cont.) Data Sources List

| Serial Number | Service Name | Data Source Name | Data Source JNDI | Targets |
|---------------|------------------------|------------------|----------------------|--------------------------|
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAMLMCHG | jdbc/VAMLMCHG | |
| 14 | obvam-stmt-ent-adapter | PLATO | jdbc/PLATO | Statement Entity Adapter |
| | | CMC | jdbc/CMNCORE | |
| | | PLATO_UI_CONFIG | jdbc/PLATO_UI_CONFIG | |
| | | SMS | jdbc/sms | |
| | | VAS_DS | jdbc/VAS_DS | |
| 15 | Appshell UI | None | None | Appshell Server |

**Note:**

For creating data source, refer to the **Create Datasource** section in **ANNEXURE-1**.

4

Deployments

This topic describes the deployments for Oracle Banking Virtual Account Management Installation.

Prerequisites

Before proceeding with the below setup, make sure that Kafka is configured and the related properties are present in the Oracle Banking Microservices Architecture schema.

To avail feature of record level approval functionality in Plato-Feed, the below property would need to be maintained as part of weblogic VM argument by each product domain including plato. If not maintained, the default behavior will be of file level approval only.

Property name - feed.recordLevelApprovalReqd

Property value - true or false

Default value - false

Deployments List

The below table gives the details of the deployments required on each domain to run the Oracle Banking Virtual Account Management application. Deploy one after the other in the given order.



Note:

For the exact version of the archive name, refer to the OSDC file available as a part of the release.

Table 4-1 Deployments List

| Application | Archive name | OSDC Path | Targets |
|------------------------------------|--|-----------------|----------------------------------|
| OBVAM Account Services | obvam-account-services-{version}.war | obvam_services/ | OBVAM Account Server |
| OBVAM Transaction Journal Services | obvam-transaction-journal-services-{version}.war | obvam_services/ | OBVAM Transaction Journal Server |
| OBVAM Statement Services | obvam-statement-services-{version}.war | obvam_services/ | OBVAM Statement Server |
| OBVAM Statement Entity Adapter | obvam-stmt-ent-adapter-{version}.war | obvam_services/ | OBVAM Statement Server |
| OBVAM Internal Transfer Services | obvam-internal-transfer-services-{version}.war | obvam_services/ | OBVAM internal Transfer Server |
| OBVAM External DDA Services | obvam-external-dda-services-{version}.war | obvam_services/ | OBVAM External DDA Server |

Table 4-1 (Cont.) Deployments List

| Application | Archive name | OSDC Path | Targets |
|--|---|-----------------|-------------------------|
| OBVAM External Credit Assessment and Block(ECA) Services | obvam-eca-services-{version}.war | obvam_services/ | OBVAM ECA Server |
| OBVAM Core Services | obvam-core-services-{version}.war | obvam_services/ | OBVAM Core Server |
| OBVAM Identifier Services | obvam-identifier-services-{version}.war | obvam_services/ | OBVAM Identifier Server |
| OBVAM Entity Services | obvam-entity-services-{version}.war | obvam_services/ | OBVAM Entity Server |
| External Interest Engine Services | external-interest-engine-service-{version}.war | obvam_services/ | OBVAM EIE Server |
| External Liquidity Management Services | external-liquidity-management-service-{version}.war | obvam_services/ | OBVAM ELM Server |
| OBVAM Projection Services | obvam-projection-services-{version}.war | obvam_services/ | OBVAM Projection Server |
| VAM LM Charge Services | vamlm-charge-services-{version}.war | obvam_services/ | OBVAM Charge Server |
| OBVAM UI | app-shell-{version}.war cmc-component-server-{version}.war moc-component-server-{version}.war sms-component-server-{version}.war obvam-component-server-{version}.war obvamlm-component-server-{version}.war | ui/ | OBVAM Appshell Server |

**Note:**

To deploy the application, refer to the **Deploy Application** section in **ANNEXURE-1**.

Deployment Instruction for vamlm-charge-services:

vamlm-charge-services is the common service for Oracle Banking Virtual Account Management and Oracle Banking Liquidity Management. In a co-deployed situation, it must be deployed from only one of the packages.

Both the product packages contain the exact same version of this service. If you deploy it from the one of the product packages, then do not deploy it from the other one.

The value of deployment type in the property table is dependent on the type of deployment.

- If the deployment is standalone for Oracle Banking Virtual Account Management, the value should be **vamchg**.
- If the deployment is standalone for Oracle Banking Liquidity Management, the value should be **lmchg**.
- If the deployment is common for both the products, the value should be **codeployed**.

Deployment Instruction for obvamlm-component-server:

obvamlm-component-server is the common component server for Charges in Oracle Banking Virtual Account Management and Oracle Banking Liquidity Management. In a co-deployed situation, it should be deployed from only one of the packages.

Both the product packages contain the exact same version of this component server. If you deploy it from the one of the product packages, then do not deploy it from the other one.

5

Initial Setup

This topic describes the initial setup for Oracle Banking Virtual Account Management Installation.

Once everything is deployed, run the CMC and SMS initial setup scripts from the below OSDC path to create the required maintenances.

- `obvam_initial_setup / cmc_initial_setup.sql`
To be compiled in Common Core schema
- `obvam_initial_setup / sms_initial_setup.sql`
To be compiled in SMS schema

CMC Initial Setup

This script would prompt a user to enter the below values.

Table 5-1 CMC Initial Setup - Field Description

| Serial Number | Field | Description |
|---------------|---------------------------|-------------------------------------|
| 1 | Bank Code | A four letter Bank Code |
| 2 | Bank Description | Description of the Bank Code |
| 3 | Branch Code | A three letter Branch Code |
| 4 | Branch Name | Name of the Branch |
| 5 | Branch Address Line 1 | Address line 1 of the branch |
| 6 | Branch Address Line 2 | Address line 2 of the branch |
| 7 | Branch Address Line 3 | Address line 3 of the branch |
| 8 | Branch Currency | A three letter ISO Currency Code |
| 9 | Country Code | A two letter ISO Country Code |
| 10 | Walk-In Customer | Walk-in customer number |
| 11 | Host Code | Host code of the Branch |
| 12 | Host Description | Host code description |
| 13 | Host Process Time Zone | Host code time zone (GMT+5.30) |
| 14 | Source System | External source system |
| 15 | Source System Description | Source system description |
| 16 | Source System Branch | Branch code as in the source system |
| 17 | Previous Working Day | Previous working day of the Branch |
| 18 | Current Working Day | Current working day of the Branch |
| 19 | Next Working Day | Next working day of the Branch |

SMS Initial Setup

This script would prompt the user to create two admin users.

Table 5-2 SMS Initial Setup - Field Description

| Serial Number | Field | Description |
|---------------|------------------------|--|
| 1 | User Login ID 1 | Login ID of the first User |
| 2 | User Name 1 | Name of the first User |
| 3 | User Login ID 2 | Login ID of the second User |
| 4 | User Name 2 | Name of the second User |
| 5 | Users Home Branch Code | A three letter Home-Branch Code of the users |
| 6 | Users Locale | Users locale (2 letter ISO country code) |
| 7 | Start Date | Start date |
| 8 | End Date | End date |

These users are assigned the default ADMIN_ROLE, and the below functional activities are mapped.

1. SMS_FA_USER_NEW
2. SMS_FA_USER_AMEND
3. SMS_FA_USER_CLOSE
4. SMS_FA_USER_REOPEN
5. SMS_FA_USER_DELETE
6. SMS_FA_LOAN_DASHBOARD_PREFERENCE
7. SMS_FA_USER_VIEW
8. SMS_FA_USER_AUTHORIZE
9. SMS_FA_ROLE_NEW
10. SMS_FA_ROLE_AMEND
11. SMS_FA_ROLE_CLOSE
12. SMS_FA_ROLE_REOPEN
13. SMS_FA_ROLE_DELETE
14. SMS_FA_LOAN_DASHBOARD_PREFERENCE_PUT
15. SMS_FA_ROLE_VIEW
16. SMS_FA_ROLE_AUTHORIZE
17. SMS_FA_LOAN_DASHBOARD_VIEW
18. SMS_FA_APPLICATION_VIEW
19. SMS_FA_MENU_DASHBOARD_VIEW
20. CMC_FA_EXT_BRANCH_PARAMETERS_LOV
21. CMC_FA_EXT_BRANCH_PARAMETERS_VIEW
22. CMC_FA_EXT_BANK_PARAMETERS_VIEW
23. CMC_FA_EXT_BANK_PARAMETERS_LOV
24. CMC_FA_SYSTEM_DATES_VIEW

25. CMC_FA_CURRENCY_DEFN_VIEW
26. CMC_FA_LOCAL_HOLIDAY_VIEW
27. CMC_FA_LANGUAGE_CODE_VIEW

LDAP Setup

The users created using the SMS script must also be created in the LDAP server.



Note:

For LDAP setup, refer to **ANNEXURE-1**.

6

Restart 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.

Restart Server

To restart the server, refer to **Restart Server** section in ***ANNEXURE-1***

7

Workflow Setup

This topic describes the workflow setup for Oracle Banking Virtual Account Management Installation.

Conductor and Plato-Orchestrator Setup

For conductor and plato-orchestrator setup, refer to the **Setup Conductor & Plato-Orchestrator** section in *Oracle Banking Microservices Platform Foundation Installation Guide*.

Account Closure Workflow

The workflow needs to be created manually and it is a one-time activity. Account Closure has two workflows that are factory shipped. These must be created using plato-orch-service API through postman.

VirtualAccountClosure

This is the main workflow that is started upon the Batch Execution. This workflow instance is assigned a new workflow ID and can be tracked using this ID.

VirtualAccountClosureSWF

This is the sub workflow that is started by the main workflow. This workflow is assigned a new workflow ID and can be tracked using this ID.

Batch Job Setup

Virtual Account closure uses plato-batch-server for Job execution.

The account closure process uses **virtualAccountCloseJob**, and the below setup needs to be done for the same.

1. In PLATO_BATCH_TASK_TRIGGER_DEFINITIONS table, an entry for **virtualAccountCloseJob** should be added and its definition should be as below

```
appId::VAM;microServiceName::obvam-account-services;contextRoot::obvam-account-services;jobName::virtualAccountCloseJob;type::schedule;cronExpression:::0 0/1 * * * ?
```

In the above definition, cronExpression is the string containing details of schedule.

2. In PROPERTIES table, the following entries should have valid user and branch code, for which the applicable roles are present to run the job.
APPLICATION = "plato-batch-server", KEY = "batchServer.userId", VALUE = "<user-id>"
APPLICATION = "plato-batch-server", KEY = "batchServer.branchCode", VALUE = "<branch-code>"
3. After the above setup, restart the plato-batch-server.

 **Note:**

Postings on virtual accounts for which closure request is in progress is controlled through a non-mandatory header parameter “allowPosting” in Balance Transfer stage. The values to this can either be

- Y – This indicates transaction postings are allowed.
- N - This indicates transaction postings are not allowed.

Once the latest subworkflow is registered, on triggering the "virtualAccountCloseJob", the workflow ID gets generated and the table VAM_TB_VA_CLOSURE_STATUS will be updated for the picked up virtual accounts (VA's with closure status as 'P') with the value (Y/N) that is defined in the subworkflow.

External Validation

External validation is done using Oracle Banking Payments. This has to be configured using Oracle Banking Routing Hub configuration files that are factory shipped.

EOD Workflow

EOD has two workflows that are factory shipped.

Refer to the ***EOD Configuration Guide*** and perform the setup.

8

Logging Area

This topic describes the logging area of Oracle Banking Virtual Account Management applications in the server.

The logging area is configurable. The user can configure any path within the server, where you want to write the Oracle Banking Virtual Account Management application logs. Oracle Banking Virtual Account Management applications write the logs in the configured path with the name: **<Application name>.logs**. For example, If the application name is **obvam-account-services**, then the logs file name would be **obvam-account-services.log**.

 **Note:**

Refer to **Annexure: domain-config-deploy.env** section in **Oracle Banking Virtual Account Management Pre-Installation Guide** to configure logging path.

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