

OBVAM Installation Guide  
Oracle Banking Virtual Account Management

Release 14.4.0.3.0

Part Number F39510-01

February 2021



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# 1. Preface

## 1.1 Introduction

This guide would help you to install the OBVAM services on designated environment. It is assumed that all the prior setup is already done related with WebLogic 12c installation, WebLogic managed server creation and Oracle DB installation.

## 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 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## 1.4 Organization

This installation guide allows you to install 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-TRANSACTION-JOURNAL-SERVICES
- EXTERNAL-LIQUIDITY-MANAGEMENT-SERVICE
- EXTERNAL-INTEREST-ENGINE-SERVICE
- OBVAM-PROJECTION-SERVICES

### **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 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

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## 2. Database Setup

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

### 2.1 Prerequisite

Before you proceed with below setup, make sure required schema is provided to you.

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## 3. OBVAM Domains Configuration

### 3.1 Prerequisites

1. Machine should have Java JDK1.8.0\_241 has installed.
2. Oracle Fusion Middleware 12.2.1.4 has to be installed on the machine.
3. Copy below files from the OSDC path to <domain>/bin folder
  - pre\_deployment\_setup \ domain-config-deploy.env  
(Edit this file and provide appropriate values)
  - pre\_deployment\_setup \ weblogic \ setUserOverrides.sh

For providing property values, refer to Oracle Banking Virtual Account Management Pre-Installation “**Annexure: domain-config-deploy.env**”

It is recommended to create different domains for the below OBVAM applications:

1. OBVAM Core Domain
2. OBVAM Entities Domain
3. OBVAM Accounts Domain
4. OBVAM Identifiers Domain
5. OBVAM Transaction Journal Domain
6. OBVAM Transaction Internal Booking Domain
7. OBVAM DDA Domain
8. OBVAM External Credit Assessment Domain
9. OBVAM Statements Domain
10. OBVAM External Liquidity Management Domain
11. OBVAM External Interest Engine Domain
12. OBVAM Projection Server Domain
13. OBVAM Appshell Domain

For creating and configuring Domain, refer to Plato Infrastructure Services Installation ANNEXURE-1 “**How to create Domain and Cluster Configuration**”.

## 4. Data Sources Creation

### 4.1 Prerequisite

Database and application setup for PLATO has to be performed prior to deployment setup.

### 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.

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	
		VAM	jdbc/VAM	
2	obvam-core-services	PLATO	jdbc/PLATO	Core Server
		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	jdbc/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	
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
		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	

Serial Number	Service Name	Data Source Name	Data Source JNDI	Targets
8	obvam-statement-services	PLATO	jdbc/PLATO	Statement Server
		PLATOBATCH	jdbc/PLATOBATCH	
		PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
		SMS	jdbc/sms	
		VAS	jdbc/VAS	
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	Projection-services	PLATO	jdbc/PLATO	Projection Server
		PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
		SMS	jdbc/sms	
		VAP	jdbc/VAP	
13	Appshell UI	None	None	Appshell Server

### 4.3 Creating Datasource

For creating datasource, refer Plato Infrastructure Services Installation ANNEXURE-1 “**How to create Datasource**”.

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## 5. Deployments

### 5.1 Prerequisite

Before you proceed with below setup, ensure that Kafka is configured and the related properties are present in PLATO schema.

### 5.2 Deployments List

Below table give details of the deployments required on each domain for the OBVAM application to run. Deploy one after other in the same given order.

Application	Archive name	OSDC path	Targets
OBVAM Account Services	obvam-account-services-5.0.0.war	obvam_services \ obvam-account-services	OBVAM Account Server
OBVAM Transaction Journal Services	obvam-transaction-journal-services-5.0.0.war	obvam_services \ obvam-transaction-journal-services	OBVAM Transaction Journal Server
OBVAM Statement Services	obvam-statement-services-5.0.0.war	obvam_services \ obvam-statement-services	OBVAM Statement Server
OBVAM Internal Transfer Services	obvam-internal-transfer-services-5.0.0.war	obvam_services \ obvam-internal-transfer-services	OBVAM internal Transfer Server
OBVAM External DDA Services	obvam-external-dda-services-5.0.0.war	obvam_services \ obvam-external-dda-services	OBVAM External DDA Server
OBVAM External Credit Assessment and Block(ECA) Services	obvam-eca-services-5.0.0.war	obvam_services \ obvam-eca-services	OBVAM ECA Server
OBVAM Core Services	obvam-core-services-5.0.0.war	obvam_services \ obvam-account-services	OBVAM Core Server
OBVAM Identifier Services	obvam-identifier-services-5.0.0.war	obvam_services \ obvam-identifier-services	OBVAM Identifier Server
OBVAM Entity Services	obvam-entity-services-5.0.0.war	obvam_services \ obvam-entity-services	OBVAM Entity Server
External Interest Engine Services	external-interest-engine-service-5.0.0.war	obvam_services \ external-interest-engine-service	OBVAM EIE Server



Application	Archive name	OSDC path	Targets
External Liquidity Management Services	external-liquidity-management-service-5.0.0.war	obvam_services \ external-liquidity-management-service	OBVAM ELM Server
OBVAM Projection Services	obvam-projection-services-5.0.0.war	obvam_services \ obvam-projection-services	OBVAM Projection Server
OBVAM UI	obvam-app-shell-14.4.0.0.0.war	ui \	OBVAM Appshell Server

### 5.3 **Steps to Deploy as Application**

To deploy application, refer Plato Infrastructure Services Installation ANNEXURE-1 “**How to deploy application**”.

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## 6. Initial Setup

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

1. obvam\_initial\_setup / cmc\_initial\_setup.sql
  - To be compiled in Common Core schema
2. obvam\_initial\_setup / sms\_initial\_setup.sql
  - To be compiled in SMS schema

### 6.1 CMC Initial Setup

This script would prompt user to enter below values.

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 (ex: 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

## 6.2 SMS Intial Setup

This script would prompt user to create two admin users.

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 will be assigned the default ADMIN\_ROLE and below functional activities will be 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

### 6.3 **LDAP Setup**

The users created using the above SMS script must also be created in the LDAP server.  
Refer Oracle Banking Plato Infrastructure Services – ANNEXURE-1 for LDAP setup.

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## 7. Restarts and Refresh

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

### 7.1 Restarting Servers

To restart the server refer to Plato Infrastructure Services Installation ANNEXURE-1 “**How to restart**” section.

## 8. Oracle Analytical Server Configuration

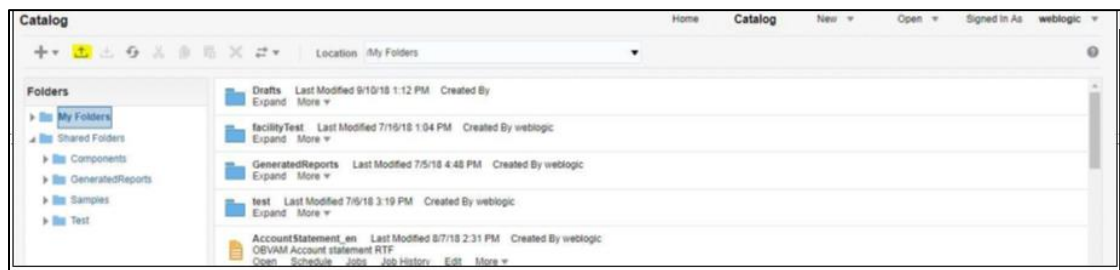
This documentation is focused on the configuration of Oracle Analytical Server for the generation of reports. The procedure includes two steps:

- Configuring the Data Model
- Configuring the Report Absolute Path

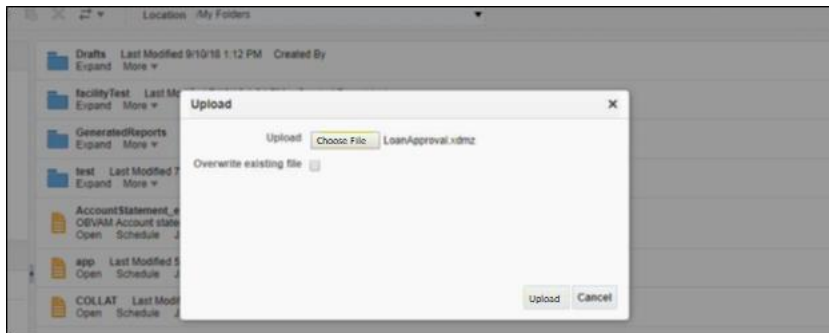
### 8.1 Configuring Data Model

The data model designed for the report is to be uploaded to the Oracle Analytical server.

1. Open the Oracle Analytical Server console. **Sign in** with credentials.
2. Click **Catalog** and select the folder on which the data model file needs to be uploaded.
3. Click **Upload** icon to upload a file.



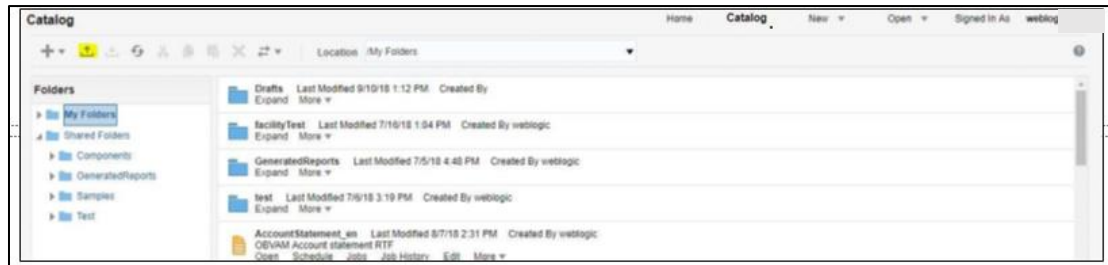
4. Choose the data model file from OBVAM\_SERVICES\obvam-statement-services\BIP\DataModels path (.xdmz) and click **Upload**.



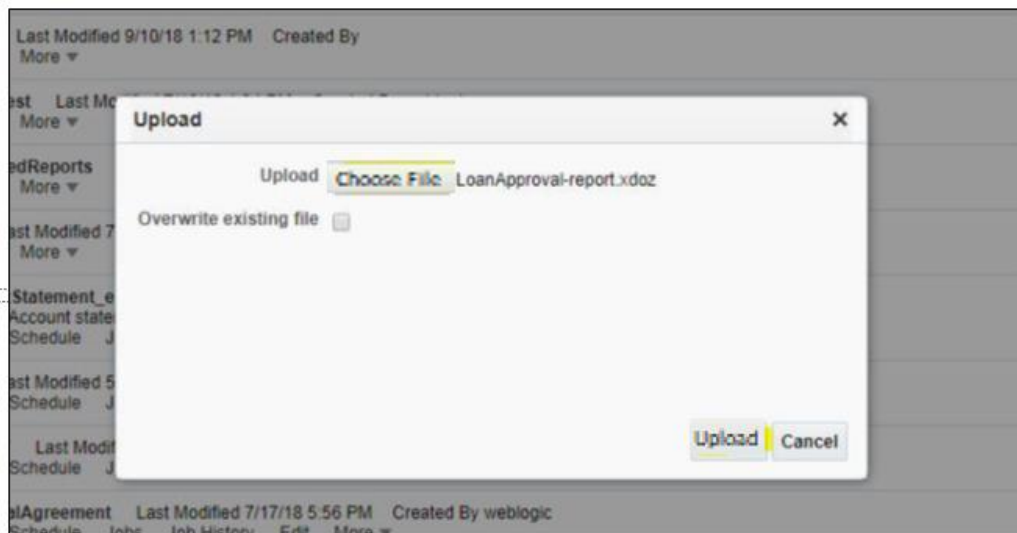
## 8.2 Configuring the Report Absolute Path

The report absolute path file created for the report is to be uploaded to the BIP server.

1. Click **Catalog** and select the folder on which the file must be uploaded.
2. Click **Upload** icon to upload a file.



3. Choose the report absolute path file from **OBVAM\_SERVICES\obvam-statement-services\BIP\Reports\AccountStatement\AccountStatement\_en.xdoz (.xdoz)** and click **Upload**.



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## 9. Logging Area

This part of the document will talk about the logging area of OBVAM applications in server.

### 9.1 Logging Area

Logging area is configurable, you can configure any path within the server, where you want OBVAM application to write logs. OBVAM applications will write logs in the configured path with below name:

**<Application name>.logs**

Example: if application name is **obvam-account-services**, then logs file name would be **obvam-account-services.logs**

To configure logging path, refer Oracle Banking Virtual Account Management Pre-Installation "Annexure: domain-config-deploy.env" Section.





## **OBVAM Installation Guide**

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