

Oracle® Banking Cash Management Services Installation Guide



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Purpose

This guide would help you to install the Oracle Banking Cash 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 Database installation. It is recommended to use dedicated managed server for each of the Oracle Banking Cash Management services.

Audience

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

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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:

- *Oracle Banking Cash Management Pre-Installation Guide*
- *Configuration and Deployment Guide*
- *Oracle Banking Cash Management Environment Variable Setup Guide*
- *Oracle Banking Cash Management User Interface Installation Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which 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 the acronyms and abbreviations used in this guide are as follows:

Table Acronyms and Abbreviations

Abbreviation	Description
JDK	Java Development Kit
OSDC	Oracle Software Delivery Cloud
SMS	Security Management System

1

Database Setup

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

Prerequisite

Before you proceed with the document, ensure Schema's are being created. It is recommended to have different schema for each application.

Database Schema Creation

Create the following database schema's. These schema names are recommended, but not mandatory.

- PLATO
- PLATO_UI_CONFIG
- PLATO_SECURITY
- PLATO_FEED
- PLATO_REPORT_SERVICE
- PLATORULE
- PLATO_BATCH
- PLATO_PASSWORD
- COMMON_CORE
- PLATOALERTS
- PLATO_TRANSPORT
- PLATOORCH
- SMSCD0
- OBSCFCM_ACCOUNTING
- OBSCFCM_ALERTS
- OBSCF_BATCH
- OBSCFCM_CHARGES
- OBSCFCM_CORE_SERVICES
- OBSCFCM_FILTER
- OBSCFCM_INSTRUMENTS
- OBSCFCM_RECON
- OBSCFCM_REPORT
- OBSCFCM_WORKFLOWS_CONDUCTOR
- OBSCFCM_MASTER_MAINTENANCE
- OBSCFCM_FILE_PROCESSING

- OBCM_CASHFLOW_FORECASTING
- OBCM_CASHFLOW_PROJECTION
- OBCM_CASHFLOW_PREDICTION
- OBCM_COLLECTIONS_MASTERS
- OBCM_COLLECTIONS
- OBCM_REPORT_SERVICES

 **Note:**

For creating database schemas, refer to **Database Schema Creation** section in **Configuration and Deployment Guide**.

View Creation Grants (Oracle Banking Cash Management Cashflow Prediction)

The following grants are provided for Oracle Banking Cash Management Cashflow Prediction:

- grant create mining model to OBCM_CASHFLOW_PREDICTION;
- grant create any mining model to OBCM_CASHFLOW_PREDICTION;
- grant alter any mining model to OBCM_CASHFLOW_PREDICTION;
- grant drop any mining model to OBCM_CASHFLOW_PREDICTION;
- grant select any mining model to OBCM_CASHFLOW_PREDICTION;
- grant comment any mining model to OBCM_CASHFLOW_PREDICTION;
- grant execute on DBMS_DATA_MINING to OBCM_CASHFLOW_PREDICTION;
- grant create view to OBCM_CASHFLOW_PREDICTION;
- grant create table to OBCM_CASHFLOW_PREDICTION;
- grant drop table to OBCM_CASHFLOW_PREDICTION;
- grant create job to OBCM_CASHFLOW_PREDICTION;
- ALTER USER OBCM_CASHFLOW_PREDICTION ENABLE EDITIONS;

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Product Installation using Installer

This topic describes the systematic information to install Oracle Banking Cash Management application using Installer.

Prerequisite

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

Installer Path

The following table provides the path of the installer in OSDC Package.

Application	Archive Name	OSDC Path
Oracle Banking Microservices Architecture	obma.zip	OBCM_14.7.3.0.0/Installer
Oracle Banking Cash Management	obcm.zip	
Oracle Banking Supply Chain Finance Cash Management	obscfcm.zip	



Note:

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

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Domain and Cluster Configuration

This topic describes the domain and cluster configuration for Oracle Banking Cash Management.

Pre-requisite

- Oracle Banking Microservices Architecture, SMS and Common core deployments are up and running. (Required)
- Machine should have Java JDK installed.
- Oracle Fusion Middleware has to be installed on the machine.



Note:

For the exact version to be installed, refer to the **Tech Stack** section in **Release Notes**

Domain Creation and Configuration

It is recommended to have different managed server in one domain for each application. For creating domain and cluster configuration, refer to **Create Domain and Cluster Configuration** section in **Configuration and Deployment Guide**

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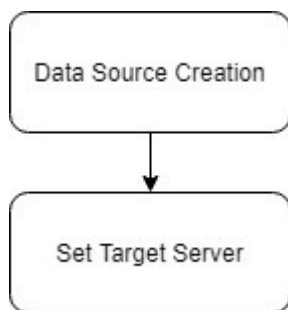
Data Source Creation

This topic describes about the data source creation for Oracle Banking Cash Management Installation.

Data Source Creation in WebLogic

Database and application setup for Oracle Banking Cash Management services 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 Cash Management services and the steps to configure them in the server.

Figure 4-1 Data Source Creation



Data sources List

Database Connection Pool size to be defined - Oracle Banking Cash Management services pool configuration should be consistent with plato services.

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

Table 4-1 Data Sources List

Application	Data Source Name	Mapped Database Schema	Data source JNDI
obscfcm-account-maintenance	OBSCFCM_ACCOUNTING	OBSCFCM_ACCOUNTING	jdbc/OBSCFCM_ACCOUNTING
obscfcm-alerts-services	OBSCFCM_ALERTS	OBSCFCM_ALERTS	jdbc/OBSCFCM_ALERTS
obscfcm-eod-batch	PLATO_BATCH	PLATO_BATCH	jdbc/EODBATCH
	OBSCF_BATCH	OBSCF_BATCH	jdbc/EOD
	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH

Table 4-1 (Cont.) Data Sources List

Application	Data Source Name	Mapped Database Schema	Data source JNDI
obscfcm-auto-recon-batch	PLATO_BATCH	PLATO_BATCH	jdbc/AUTORECONBAT CH
obscfcm-auto-recon-batch	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obscfcm-charges-services	OBSCFCM_CHARGES	OBSCFCM_CHARGES	jdbc/ OBSCFCM_CHAR GES
obscfcm-core-services	OBSCFCM_CORE_SE RVICES	OBSCFCM_CORE_SE RVICES	jdbc/ OBSCFCM_CORE _SERVICES
obscfcm-filter-services	OBSCFCM_FILTER	OBSCFCM_FILTER	jdbc/ OBSCFCM_FILTE R
obscfcm-instruments- receivables-services	OBSCFCM_INSTRUME NTS	OBSCFCM_INSTRUME NTS	jdbc/ OBSCFCM_INSTR UMENTS
obscfcm-manual-recon- services	OBSCFCM_RECON	OBSCFCM_RECON	jdbc/ OBSCFCM_RECO N
obscfcm-report-services	OBSCFCM_REPORT	OBSCFCM_REPORT	jdbc/ OBSCFCM_REPO RT
obscfcm-workflow- management-services	OBSCFCM_WORKFLO WS_CONDUCTOR	OBSCFCM_WORKFLO WS_CONDUCTOR	jdbc/ OBSCFCM_WORK FLOWS_CONDUC TOR
obscfcm-mastermaintenance- services	OBSCFCM_MAINTENA NCE	OBSCFCM_MAINTENA NCE	jdbc/ OBSCFCM_MAINT ENANCE
obcm-cashflow-forecasting- services	OBCM_CASHFLOW_F ORCAST	OBCM_CASHFLOW_F ORCAST	jdbc/ OBCM_CASHFLO W_FORCAST
obcm-cashflow-projection- services	OBCM_CASHFLOW_P ROJECTION	OBCM_CASHFLOW_P ROJECTION	jdbc/ OBCM_CASHFLO W_PROJECTION
obscfcm-batch-jobs	OBSCFCM-BATCH- JOBS	OBSCFCM-BATCH- JOBS	jdbc/OBSCFCM- BATCH-JOBS
obcm-collections-transaction- services	OBCM_COLLECTIONS	OBCM_COLLECTIONS	jdbc/ OBCM_COLLECTI ONS
obcm-report-services	OBCM_REPORT	OBCM_REPORT	jdbc/ OBCM_REPORT
obcm-collections- maintenance-services	OBCM_COLLECTION_ MAINT	OBCM_COLLECTION_ MAINT	Jdbc/ OBCM_COLLECTI ON_MAINT
obcm-cashflow-prediction- services	OBCM_CASHFLOW_P REDICTION	OBCM_CASHFLOW_P REDICTION	jdbc/ OBCM_CASHFLO W_PREDICTION

Table 4-1 (Cont.) Data Sources List

Application	Data Source Name	Mapped Database Schema	Data source JNDI
obcm-multilateral-netting-services	OBSCFCM_INSTRUMENTS	OBSCFCM_INSTRUMENTS	jdbc/OBSCFCM_INSTRUMENTS
To be mapped with all managed servers	PLATO	PLATO	jdbc/PLATO
	PLATO_UI_CONFIG	PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG
	SMS	SMSCD0	jdbc/sms
	CMNCORE	COMMON_CORE	jdbc/CMNCORE
	PLATO_FEED	PLATO_FEED	jdbc/PLATOFEED
obcm-day0-service	OBCM_CASHFLOW_FORCAST	OBCM_CASHFLOW_FORCAST	jdbc/OBCM_CASHFLOW_FORCAST
	OBCM_COLLECTION_MAINT	OBCM_COLLECTION_MAINT	jdbc/OBCM_COLLECTION_MAINT
	OBSCFCM_MAINTENANCE	OBSCFCM_MAINTENANCE	jdbc/OBSCFCM_MAINTENANCE
	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obscfcm-day0-service	OBSCFCM_ACCOUNTING	OBSCFCM_ACCOUNTING	jdbc/OBSCFCM_ACCOUNTING
	OBSCFCM_FILTER	OBSCFCM_FILTER	jdbc/OBSCFCM_FILTER
	OBSCFCM_INSTRUMENTS	OBSCFCM_INSTRUMENTS	jdbc/OBSCFCM_INSTRUMENTS
	OBSCFCM_RECON	OBSCFCM_RECON	jdbc/OBSCFCM_RECON
	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
	PLATO_SECURITY	PLATO_SECURITY	jdbc/PLATOSECURITY
	OBSCFCM_WORKFLOWS_CONDUCTOR	OBSCFCM_WORKFLOWS_CONDUCTOR	jdbc/OBSCFCM_WORKFLOWS_CONDUCTOR
	OBSCFCM_REPORT	OBSCFCM_REPORT	jdbc/OBSCFCM_REPORT
	OBSCFCM_MAINTENANCE	OBSCFCM_MAINTENANCE	jdbc/OBSCFCM_MAINTENANCE

**Note:**

For creating data source, refer to the **Create Datasource** section in **Configuration and Deployment Guide**.

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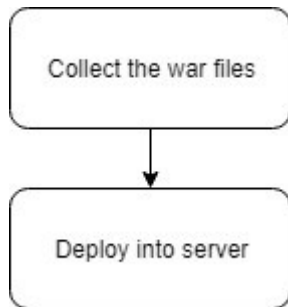
Deployments

This topic describes about the deployments for Oracle Banking Cash Management Installation.

Prerequisite

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 Cash Management service and the steps to deploy them into the server.

Figure 5-1 Deployments



- For any issues with fly configuration setup, refer to **High Availability Setup Guide**.
- For Oracle Banking Cash Management environment variables setup, refer to **Environment Variable Setup Guide**.
- If 'obscf-eod-batch' is already deployed, bring it down and deploy 'obscfcm-eod-batch' provided in the deployment list.

Deployments List

The following table provides the details of deployments required on each Server for the Plato application to run. Deploy one after other in the same given order.



Note:

INFRA Pre-requisites should be available before proceeding with the Application deployment process.

Application Startup and Deployment Sequence for new installation or Upgrades

- PLATO Domain <All Plato Infrastructure Services & Plato Services should be deployed as per respective installation document>
- Common Core <All SMS, Common Core and Mid-Office Common Core services should be deployed as per respective installation document>

- Domain services
 - All the services in any order except for the below mentioned services which are to be deployed at the end in the order stated in the below list.
 - * obscfcm-master-maintenance
 - * obcm-day0-service
 - * obscfcm-day0-service
- The recommended list of managed server names and the application distribution on the targets are listed below. But not mandatory, provided the managed server is configured as per the sizing recommendations during the implementation phase.
- It is recommended to deploy obcm-collections-maintenance-services first and then deploy obcm-collections-transaction-services war while deploying Oracle Banking Cash Management Services.

 **Note:**

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

Table 5-1 Deployments List

Application	Archive name	OSDC path	Targets
obcm-cashflow-forecasting-services	obcm-cashflow-forecasting-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-cashflow-forecasting-services-{version}\ARCHIVE	obcm_ms_1
obcm-cashflow-projection-services	obcm-cashflow-projection-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-cashflow-projection-services-{version}\ARCHIVE	obcm_ms_1
obcm-cashflow-prediction-services	obcm-cashflow-prediction-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-cashflow-prediction-services-{version}\ARCHIVE	obcm_ms_1
obcm-collections-maintenance-services	obcm-collections-maintenance-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-collections-maintenance-services-{version}\ARCHIVE	obcm_ms_2
obcm-collections-transaction-services	obcm-collections-transaction-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-collections-transaction-services-{version}\ARCHIVE	obcm_ms_1
obcm-report-services	obcm-report-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-report-services-{version}\ARCHIVE	obcm_ms_2
obcm-multilateral-netting-services	obcm-multilateral-netting-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-multilateral-netting-services-{version}\ARCHIVE	obcm_ms_2

Table 5-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
obscfcm-account-maintenance-services	obscfcm-account-maintenance-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-account-maintenance-services-{version}\ARCHIVE	obscfcm_ms_1
obscfcm-alerts-services	obscfcm-alerts-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-alerts-services-{version}\ARCHIVE	obscfcm_ms_1
obscfcm-batch-jobs	obscfcm-batch-jobs-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-batch-jobs-{version}\ARCHIVE	obscfcm_ms_1
obscfcm-chatbot-services	obscfcm-chatbot-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-chatbot-services-{version}\ARCHIVE	obscfcm_ms_1
obscfcm-eod-batch	obscfcm-eod-batch-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-eod-batch-{version}\ARCHIVE	obscfcm_ms_1
obscfcm-auto-recon-batch	obscfcm-auto-recon-batch-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-auto-recon-batch-{version}\ARCHIVE	obscfcm_ms_2
obscfcm-charges-services	obscfcm-charges-services-{version}.war	OBCM_{release} \OBCM_SERVICE\obscfcm-charges-services-{version}\ARCHIVE	obscfcm_ms_2
obscfcm-core-services	obscfcm-coreservices-{version}.war	OBCM_{release} \OBCM_SERVICE\obscfcm-core-services-{version}\ARCHIVE	obscfcm_ms_2
obscfcm-filter-services	obscfcm-filter-services - {version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-filter-services-{version}\ARCHIVE	obscfcm_ms_2
obscfcm-instruments-receivables-services	obscfcm-instruments-receivables-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-instruments-receivables-services-{version}\ARCHIVE	obscfcm_ms_2
obscfcm-manual-reconservices	obscfcm-manual-reconservices{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-manual-recon-services-{version}\ARCHIVE	obscfcm_ms_3
obscfcm-report-services	obscfcm-report-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-report-services-{version}\ARCHIVE	obscfcm_ms_3
obscfcm-workflow-management-services	obscfcm-workflow-management-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-workflow-management-services-{version}\ARCHIVE	obscfcm_ms_3

Table 5-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
obscfcm-master-maintenance-services	obscfcm-master-maintenance-services-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-master-maintenance-services-{version}\ARCHIVE	obscfcm_ms_3
obcm-day0-service	obcm-day0-service-{version}.war	OBCM_{release} \OBCM_SERVICES\obcm-day0-service-{version}\ARCHIVE	obcm_DAY0
obscfcm-day0-service	obscfcm-day0-service-{version}.war	OBCM_{release} \OBCM_SERVICES\obscfcm-day0-service-{version}\ARCHIVE	obscfcm_DAY0

 **Note:**

To deploy application, refer to **Deploy Application** section in **Configuration and Deployment Guide**.

6

Restarts and Refresh

This topic describes the procedure to restart and refresh the servers.

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

 **Note:**

To restart the server, refer to **Restart Server** section in **Configuration and Deployment Guide**.

Restart Order

- Sequence in case of any configuration changes in the plato schema's -> properties table or server arguments (eg : port or host)
 - Restart the plato-config-service and plato-discovery-service.
 - Restart the impacted service
- Sequence in case of any configuration changes in the plato-ui-config schema (eg : port or host)
 - Restart plato-ui-config-service

Caching Impact

The following services use caching and if direct changes are done in database, then service needs to be bounced else cache eviction will happen in 2 hours or configured value in the server start up params:

1. Obscfcm-master-maintenance
2. Obscfcm-filter-service
3. Obscfcm-manual-recon-service
4. Obscfcm-core-service

7

Logging Area

This topic describes about the logging area of Plato applications in WebLogic server.

Plato Application writes logs in the below area of the server:

```
<WEBLOGIC_DOMAIN_CONFIG_AREA>/ logs/plato-api-gateway.log
```

Let's assume a domain has been created cm_domain in the following area of the server:

```
/scratch/oracle/middleware/user_projects/domains/platoinfra_domain
```

Logging area for Plato would be /scratch/oracle/middleware/user_projects/domains/cm_domain/logs.

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