

Oracle® Banking Cash Management Services Installation Guide



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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 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.

List of Topics

This guide is organized as follows:

Table 1 List of Topics

Topics	Description
Database Setup	This topic describes the database setup for Oracle Banking Cash Management Installation.
Product Installation using Installer	This topic provides the information to install all the product and Oracle Banking Microservices Architecture services using Installer.
Domain and Cluster Configuration	This topic describes the domain and cluster configuration for Oracle Banking Cash Management.
Data Source Creation	This topic describes about the data source creation for Oracle Banking Cash Management Installation.
Deployments	This topic describes about the deployments for Oracle Banking Cash Management Installation.
Restarts and Refresh	This topic provides the information about the restart and refresh.
Logging Area	This topic describes about the logging area of Plato applications in WebLogic server.

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Database Setup

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

Pre-requisite

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_NETTING
- 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;
- 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.

Pre-requisite

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	Path
Oracle Banking Microservices Architecture	obma.zip	OBCM_OSDC_14.7.0.0.0/ Installer
Oracle Banking Cash Management	obcm.zip	
Oracle Banking Supply Chain Finance Cash Management	obsfcfm.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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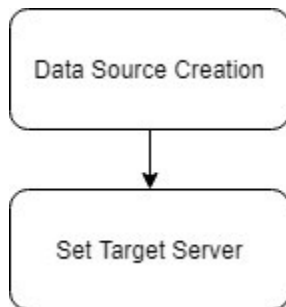
Data Source Creation

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
obsfcfc-account-maintenance	OBSCFCM_ACCOUNTING	OBSCFCM_ACCOUNTING	jdbc/OBSCFCM_ACCOUNTING
obsfcfc-alerts-services	OBSCFCM_ALERTS	OBSCFCM_ALERTS	jdbc/OBSCFCM_ALERTS
obsfcfc-eod-batch	PLATO_BATCH	PLATO_BATCH	jdbc/EODBATCH
obsfcfc-eod-batch	OBSCF_BATCH	OBSCF_BATCH	jdbc/EOD

Table 4-1 (Cont.) Data Sources List

Application	Data Source Name	Mapped Database Schema	Data source JNDI
obsfcm-eod-batch	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obsfcm-auto-recon-batch	PLATO_BATCH	PLATO_BATCH	jdbc/AUTORECONBAT CH
obsfcm-auto-recon-batch	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obsfcm-charges-services	OBSCFCM_CHARGES	OBSCFCM_CHARGES	jdbc/OBSCFCM_CHAR GES
obsfcm-core-services	OBSCFCM_CORE_SE RVICES	OBSCFCM_CORE_SE RVICES	jdbc/OBSCFCM_CORE _SERVICES
obsfcm-filter-services	OBSCFCM_FILTER	OBSCFCM_FILTER	jdbc/OBSCFCM_FILTE R
obsfcm-instruments- receivables-services	OBSCFCM_INSTRUME NTS	OBSCFCM_INSTRUME NTS	jdbc/OBSCFCM_INST RUMENTS
obsfcm-manual-recon- services	OBSCFCM_RECON	OBSCFCM_RECON	jdbc/OBSCFCM_RECO N
obsfcm-report-services	OBSCFCM_REPORT	OBSCFCM_REPORT	jdbc/OBSCFCM_REPO RT
obsfcm-workflow- management--services	OBSCFCM_WORKFLO WS_CONDUCTOR	OBSCFCM_WORKFLO WS_CONDUCTOR	jdbc/OBSCFCM_WOR KFLAWS_CONDU CTOR
obsfcm- mastermaintenance-services	OBSCFCM_MAINTENA NCE	OBSCFCM_MAINTENA NCE	jdbc/OBSCFCM_MAIN TENANCE
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
obsfcm-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-netting-service	OBCM_NETTING	OBCM_NETTING	jdbc/ OBCM_NETTING
	OBSCFCM_INSTRUMENTS	OBSCFCM_INSTRUMENTS	jdbc/ OBSCFCM_INSTRUMENTS
	OBSCFCM_REPORT	OBSCFCM_REPORT	jdbc/ OBSCFCM_REPORT
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

**Note:**

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

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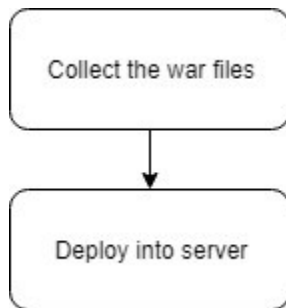
Deployments

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

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 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_OSDC_{release} \OBCM_SERVICES\obcm-cashflow-forecasting-services-{version} ARCHIVE	obcm_ms_1
obcm-cashflow-projection-services	obcm-cashflow-projection-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obcm-cashflow-projection-services-{version} ARCHIVE	obcm_ms_1
obcm-cashflow-prediction-services	obcm-cashflow-prediction-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obcm-cashflow-prediction-services-{version} ARCHIVE	obcm_ms_1
obcm-collections-maintenance-services	obcm-collections-maintenance-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obcm-collections-maintenance-services-{version} ARCHIVE	obcm_ms_2
obcm-collections-transaction-services	obcm-collections-transaction-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obcm-collections-transaction-services-{version} ARCHIVE	obcm_ms_1

Table 5-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
obcm-report-services	obcm-report-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obcm-report-services-{version} ARCHIVE	obcm_ms_2
obcm-netting-service	obcm-netting-service-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obcm-netting-service-{version} ARCHIVE	obcm_ms_1
obsfcfm-account-maintenance-services	obsfcfm-account-maintenance-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-account-maintenance-services-{version} ARCHIVE	obsfcfm_ms_1
obsfcfm-alerts-services	obsfcfm-alerts-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-alerts-services-{version} ARCHIVE	obsfcfm_ms_1
obsfcfm-batch-jobs	obsfcfm-batch-jobs-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-batch-jobs-{version} ARCHIVE	obsfcfm_ms_1
obsfcfm-chatbot-services	obsfcfm-chatbot-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-chatbot-services-{version}\ARCHIVE	obsfcfm_ms_1
obsfcfm-eod-batch	obsfcfm-eod-batch-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-eod-batch-{version} ARCHIVE	obsfcfm_ms_1
obsfcfm-auto-recon-batch	obsfcfm-auto-recon-batch-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-auto-recon-batch-{version} ARCHIVE	obsfcfm_ms_2
obsfcfm-charges-services	obsfcfm-charges-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICE\obsfcfm-charges-services-{version}\ARCHIVE	obsfcfm_ms_2
obsfcfm-core-services	obsfcfm-coreservices-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICE\obsfcfm-core-services-{version} ARCHIVE	obsfcfm_ms_2
obsfcfm-filter-services	obsfcfm-filter-services - {version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-filter-services-{version} ARCHIVE	obsfcfm_ms_2
obsfcfm-instruments-receivables-services	obsfcfm-instruments-receivables-services-{version}.war	OBCM_OSDC_{release} \OBCM_SERVICES\obsfcfm-instruments-receivables-services-{version} ARCHIVE	obsfcfm_ms_2

Table 5-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
obsfcfm-manual-reconservices	obsfcfm-manual-recon-services{version}.war	OBCM_OSDC_{release}\OBCM_SERVICES\obsfcfm-manual-recon-services-{version}\ARCHIVE	obsfcfm_ms_3
obsfcfm-report-services	obsfcfm-report-services-{version}.war	OBCM_OSDC_{release}\OBCM_SERVICES\obsfcfm-report-services-{version}\ARCHIVE	obsfcfm_ms_3
obsfcfm-workflow-management-services	obsfcfm-workflow-management-services-{version}.war	OBCM_OSDC_{release}\OBCM_SERVICES\obsfcfm-workflow-management-services-{version}\ARCHIVE	obsfcfm_ms_3
obsfcfm-master-maintenance-services	obsfcfm-master-maintenance-services-{version}.war	OBCM_OSDC_{release}\OBCM_SERVICES\obsfcfm-master-maintenance-services-{version}\ARCHIVE	obsfcfm_ms_3
obcm-day0-service	obcm-day0-service-{version}.war	OBCM_OSDC_{release}\OBCM_SERVICES\obcm-day0-service-{version}\ARCHIVE	obcm_DAY0
obsfcfm-day0-service	obsfcfm-day0-service-{version}.war	OBCM_OSDC_{release}\OBCM_SERVICES\obsfcfm-day0-service-{version}\ARCHIVE	obsfcfm_DA Y0

**Note:**

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

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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. Obscfcmmaster-maintenance
2. Obscfcmmfilter-service
3. Obscfcmmmanual-recon-service
4. Obscfcmmcore-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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