Services Installation Guide
Oracle Banking Cash Management
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FINANCIAL SERVICES

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Services Installation Guide

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1. Preface

1.1 Introduction

This guide would help you to install the OBCM 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.
It is recommended to use dedicated managed server for each of the OBCM services.

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.

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2. Domain and Cluster Configuration

2.1 Plato Infrastructure Domain Configuration

2.1.1 Prerequisites

- Machine should have Java JDK1.8.0_281 has installed.
- Oracle Fusion Middleware 12cR2 12.2.1.4 has to be installed on the machine.
- Plato, common core, sms services are up and running.

2.1.2 Domain Creation and Configuration

It is recommended to have different managed server in one domain for each application. For Creating Domain and Configuration please refer to ANNEXURE-1 "**How to create and Cluster Configuration".**

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3. Database Setup for OBSCF

3.1 Introduction

In this section you are going to setup database related configuration for OBCM Installation. Before you proceed with the document, ensure Schema's are being created. It is recommended to have different schema for each application.

3.2 Database Schema Creation

For help in creating database schemas, refer to **ANNEXURE-1** section **Database Schema Creation**.

Create the following database schemas:
**Schema Names mentioned below are recommended, but not mandatory.

Database Schema Names
OBSCFCM_ACCOUNTING
OBSCFCM_ALERTS
PLATO_BATCH
OBSCF_BATCH
OBSCFCM_CHARGES
OBSCFCM_CORE_SERVICES
OBSCFCM_FILTER
OBSCFCM_INSTRUMENTS
OBSCFCM_RECON
OBSCFCM_REPORT
OBSCFCM_WORKFLOWS_CONDUCTOR
OBSCFCM_MAINTENANCE
OBSCF_CORE
OBSCF_FINANCE
OBSCF_LIMIT_UTILIZ
OBSCF_REPORT
PLATO
PLATO_UI_CONFIG
SMS
PLATOFEED
CMNCORE

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3.3   <u>Data Source Creation in WebLogic</u>

Database and application setup for OBCM 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 OBCM services and the steps to configure them in the server.
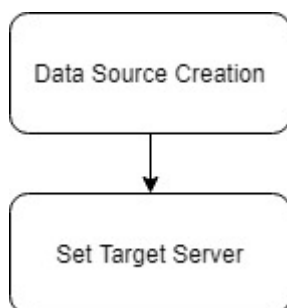
3.4   <u>Data sources List</u>

For creating data source in please refer ANNEXURE-1 "**How to create Data sources section".**

The table below lists the data sources to be created on each managed server prior to deployment of applications onto managed servers.

Database Connection Pool size to be defined - OBCM services pool configuration should be consistent with plato services.

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
obscfcm-eod-batch	OBSCF_BATCH	OBSCF_BATCH	jdbc/EOD
obscfcm-eod-batch	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obscfcm-auto-recon-batch	PLATO_BATCH	PLATO_BATCH	jdbc/AUTORECONBATCH
obscfcm-auto-recon-batch	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obscfcm-charges-services	OBSCFCM_CHARGES	OBSCFCM_CHARGES	jdbc/OBSCFCM_CHARGES
obscfcm-core-services	OBSCFCM_CORE_SERVICES	OBSCFCM_CORE_SERVICES	jdbc/OBSCFCM_CORE_SERVICES
obscfcm-filter-services	OBSCFCM_FILTER	OBSCFCM_FILTER	jdbc/OBSCFCM_FILTER
obscfcm-instruments-receivables-services	OBSCFCM_INSTRUMENTS	OBSCFCM_INSTRUMENTS	jdbc/OBSCFCM_INSTRUMENTS

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obscfcm-manual-recon-services	OBSCFCM_RECON	OBSCFCM_RECON	jdbc/OBSCFCM_RECON
obscfcm-report-services	OBSCFCM_REPORT	OBSCFCM_REPORT	jdbc/OBSCFCM_REPORT
obscfcm-workflow-management--services	OBSCFCM_WORKFLOWS_CONDUCTOR	OBSCFCM_WORKFLOWS_CONDUCTOR	jdbc/OBSCFCM_WORKFLOWS_CONDUCTOR
obscfcm-mastermaintenance-services	OBSCFCM_MAINTENANCE	OBSCFCM_MAINTENANCE	jdbc/OBSCFCM_MAINTENANCE
obcm-cashflow-forecasting-services	OBCM_CASHFLOW_FORCAST	OBCM_CASHFLOW_FORCAST	jdbc/OBCM_CASHFLOW_FORCAST
obcm-cashflow-projection-services	OBCM_CASHFLOW_PROJECTION	OBCM_CASHFLOW_PROJECTION	jdbc/OBCM_CASHFLOW_PROJECTION
obcm-collections-transaction-services	OBCM_COLLECTIONS	OBCM_COLLECTIONS	jdbc/OBCM_COLLECTIONS
obcm-collections-maintenance-services	OBCM_COLLECTION_MAINT	OBCM_COLLECTION_MAINT	Jdbc/OBCM_COLLECTION_MAINT
obcm-report-services	OBSCF_REPORT	OBSCF_REPORT	jdbc/OBSCF_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

4. Deployments

4.1 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 OBCM service and the steps to deploy them into the server.

```
┌──────────────────────┐
│  Collect the war files │
└──────────────────────┘
            │
            ▼
┌──────────────────────┐
│   Deploy into server  │
└──────────────────────┘
```
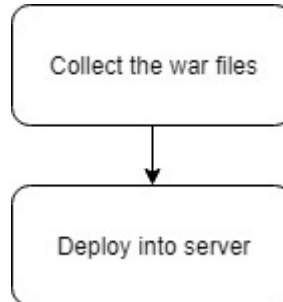
- Environment variables need to be set. Refer **ANNEXURE-1**.
- For any issues with fly configuration setup, Refer **ANNEXURE-2**.
- For OBSCF environment variables setup, Refer **OBCM - Environment Variable Setup Guide Section 2.3**.
- If 'obscf-eod-batch' is already deployed, bring it down and deploy 'obscfcm-eod-batch' provided in the deployment list below.
- If the application is being deployed as standalone OBCM, then execute below (JobList.txt) script in OBSCF_BATCH schema to ensure common core events are triggered from OBSCF EOD:

JobList.txt

4.2 Deployments List

Below table give details of the 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
  - o All OBSCF and OBSCFCM 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.
    - i. obscfcm-master-maintenance

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- Below is the recommended list of managed server names and the application distribution on the targets. But not mandatory, provided the managed server is configured as per the sizing recommendations during the implementation phase.

Application	Archive name	OSDC path	Targets
obcm-cashflow-forecasting-services	obcm-cashflow-forecasting-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\ obcm-cashflow-forecasting-services-7.2.0\ARCHIVE	obcm_ms_1
obcm-cashflow-projection-services	obcm-cashflow-projection-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\ obcm-cashflow-projection-services-7.2.0\ARCHIVE	obcm_ms_1
obcm-collections-transaction-services	obcm-collections-transaction-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\ obcm-collections-transaction-services-7.2.0\ARCHIVE	obcm_ms_2
obcm-collections-maintenance-services	obcm-collections-maintenance-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\ obcm-collections-maintenance-services-7.2.0\ARCHIVE	obcm_ms_2
obcm-report-services	obcm-report-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obcm-report-services-7.2.0\ARCHIVE	obcm_ms_2
obscf-day0-service	obscf-day0-service-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscf-day0-service-7.2.0\ARCHIVE	obcm_DAY0
obscfcm-accountmaintenance	obscfcm-accountmaintenanceservices-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscfc m-account-maintenance-services-7.2.0\ARCHIVE	obscfcm_ms_1
obscfcm-alerts-services	obscfcm-alerts-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscfcm-alerts-services-7.2.0\ARCHIVE	obscfcm_ms_1
obscfcm-batch-jobs	obscfcm-batch-jobs-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscfcm-batch-jobs-7.2.0\ARCHIVE	obscfcm_ms_1
obscfcm-chatbot-services	obscfcm-chatbot-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscfcm-chatbot-services-7.2.0\ARCHIVE	obscfcm_ms_1
obscf-eodbatch	obscf-eod-batch-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscfeod-batch-7.2.0\ARCHIVE	obscfcm_ms_1
obscfcm-auto-reconbatch	obscfcm-autorecon-batch- 7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM_SERVICES\obscfauto-recon-batch-7.2.0\ARCHIVE	obscfcm_ms_2
obscfcm-chargeservices	obscfcm-chargeservices-7.2.0.war	OBCM_OSDC_14.5.3.0.0OBCM_SERVICE\obscfcm -charge-services-7.2.0\ARCHIVE	obscfcm_ms_2
obscfcm-core-services	obscfcm-coreservices-7.2.0.war	OBCM_OSDC_14.5.3.0.0OBCM_SERVICE\obscfcm -core-services-7.2.0\ARCHIVE	obscfcm_ms_2

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obscfcm-filterservices	obscfcm-filterservices - 7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\obscfc m-filter-services-7.2.0\ARCHIVE	obscfcm_ms _2
obscfcm-instrumentsreceivableservices	obscfcm-instrumentsreceivableservices- 7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\ obscfcm-instruments-receivable-services7.2.0\ARCHIVE	obscfcm_ms _2
obscfcm-manualreconservices	obscfcm-manualrecon-services7.2.0	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\obscfc m-manual-recon-services-7.2.0\ARCHIVE	obscfcm_ms _3
obscfcm-reportservices	obscfcm-reportservices-7.2.0	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\obscfc m-report-services-7.2.0\ARCHIVE	obscfcm_ms _3
obscfcm-workflowmanagement--services	obscfcm-workflowmanagementservices-7.2.0	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\obscfc m-workflow-management-services7.2.0\ARCHIVE	obscfcm_ms _3
obscfcm-mastermaintenance-services	obscfcm-mastermaintenance-services-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\obscfc m-master-maintenance-services-7.2.0\ARCHIVE	obscfcm_ms _3
obscfcm-day0-service	obscfcm-day0-service-7.2.0.war	OBCM_OSDC_14.5.3.0.0\OBCM _SERVICES\obscfcm-day0-service-7.2.0\ARCHIVE	obscfcm_D AY0

4.3 <u>Steps to Deploy as Application</u>

To deploy application please refer ANNEXURE-1. "**How to deploy section**".

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5. Restarts and Refresh

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

5.1 <u>Restarting Servers</u>

To restart the server please refer to ANNEXURE-1."**How to restart**" section.

5.2 <u>Restart Order</u>

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

5.3 <u>Caching Impact</u>

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

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6. Logging Area

6.1 <u>Introduction</u>

This part of the document will talk about the logs area where after deployment of Plato Applications in WebLogic server.

6.2 <u>Logging Area</u>

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 **scf_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/scf_domain/logs.**

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