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FINANCIAL SERVICES



Plato Infrastructure Services Installation Guide

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India Worldwide Inquiries: Phone: +91 22 6718 3000 Fax: +91 22 6718 3001 www.oracle.com/financialservices/

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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.

1.4 Organization

This installation user guide would allow you to install following services

- obscfcm-account-maintenance-services
- obscfcm-charge-services
- obscfcm-core-services
- obscfcm-auto-recon-batch
- obscfcm-filter-services
- obscfcm-instruments-receivables-services
- obscfcm-recon-maintenance-services
- obscfcm-manual-recon-services
- obscfcm-master-maintenance-services
- obcm-collection-maintenance-services
- obcm-colelction-transaction-services
- obcm-cashflow-forecasting-services
- obscfcm-report-services
- obscfcm-workflow-management-service



2. Database Setup

2.1 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. Domain and Cluster Configuration

3.1 Plato Infrastructure Domain Configuration

3.1.1 Prerequisites

- Machine should have Java JDK1.8.0_241 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

3.1.2 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**".



4. Database Schema Creation

Create the following database schemas:

| # | Database Schema Name |
|----|-----------------------------|
| 1 | OBSCFCM_ACCOUNTING |
| 2 | OBSCFCM_CHARGES |
| 3 | OBSCFCM_CORE_SERVICES |
| 4 | OBSCF_BATCH |
| 5 | OBSCFCM_FILTER |
| 7 | OBSCFCM_INSTRUMENTS |
| 8 | OBSCFCM_RECON |
| 9 | OBSCFCM_MASTER_MAINTENANCE |
| 10 | OBCM_COLLECTIONS_MASTERS |
| 11 | OBCM_COLLECTIONS |
| 12 | OBCM_CASHFLOW_FORECASTING |
| 13 | OBSCFCM_REPORT |
| 14 | OBSCFCM_WORKFLOWS_CONDUCTOR |

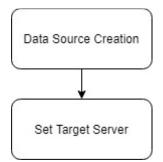
For help in creating database schemas, refer to ANNEXURE-1 section Database schema creation.



5. Data Sources Creation

5.1 **Prerequisite**

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.



5.2 Data sources List

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

| Note that in addition to the below datasources, the PLATO datasource is required to be |
|--|
| created and mapped to all the managed servers. |

| Service Name | Data Source Name | Mapped Database Schema | Data source JNDI |
|---|---------------------------|--------------------------------|--------------------------------|
| account- maintenance- service | | OBSCFCM_ACCOUNTING | jdbc/OBSCFCM_ACCO UNTING |
| auto-recon- batch | PLATOBATCH | OBSCF_BATCH | jdbc/PLATOBATCH |
| charges- service | OBSCFCM_CHARGES | OBSCFCM_CHARGES | jdbc/OBSCFCM_CHAR GES |
| core-services | OBSCFCM_CORE_SER VICES | OBSCFCM_CORE_SERVICES | jdbc/OBSCFCM_CORE _SERVICES |
| eod-batch | PLATOBATCH | OBSCF_BATCH | jdbc/PLATOBATCH |
| Filter-services | OBSCFCM_FILTER | OBSCFCM_FILTER | jdbc/OBSCFCM_FILTE R |
| Instruments- receivable- services | OBSCFCM_INSTRUME NTS | OBSCFCM_INSTRUMENTS | jdbc/OBSCFCM_INST RUMENTS |
| | PLATOFEED | PLATO_FEED | jdbc/PLATOFEED |
| Recon- maintenance- service | OBSCFCM_RECON | OBSCFCM_RECON | jdbc/OBSCFCM_RECO N |
| Manual- recon- services | OBSCFCM_RECON | OBSCFCM_RECON | jdbc/OBSCFCM_RECO N |
| Master- maintenance- services | OBSCFCM_MAINTENA NCE | OBSCFCM_MASTER_MAINTE NANCE | jdbc/OBSCFCM_MAIN TENANCE |



| Collection- maintenance- service | OBCM_COLLECTION_M AINT | OBCM_COLLECTIONS_MAST ERS | jdbc/OBCM_COLLECTI ON_MAINT |
|--|---------------------------------|---------------------------------|--|
| Collection- transaction- service | OBCM_COLLECTIONS | OBCM_COLLECTIONS | jdbc/OBCM_COLLECTI ONS |
| Cashflow- forecasting- service | OBCM_CASHFLOW_FO RCAST | OBCM_CASHFLOW_FORECA STING | jdbc/OBCM_CASHFLO W_FORCAST |
| Report- services | OBSCFCM_REPORT | OBSCFCM_REPORT | jdbc/OBSCFCM_REPO RT |
| Workflow- management- services | OBSCFCM_WORKFLO WS_CONDUCTOR | OBSCFCM_WORKFLOWS_CO NDUCTOR | jdbc/OBSCFCM_WOR KFLOWS_CONDUCTO R |

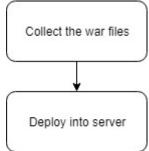
For creating data source in please refer ANNEXURE-1 "How to create Data sources section".



6. Deployments

6.1 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.



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**.

6.2 **Deployments List**

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

Note: Prior to deploying workflow-management-service make sure conductor-server and plato-orch services are deployed in their respective domains

| Application | Archive name | OSDC path | Targets |
|--|--|---|---|
| obscfcm- account- maintenance -services | obscfcm-account- maintenance- services- 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-account-maintenance-services-5.1.0\ARCHIVE | OBSCF account maintenanc e managed server |
| obscf-eod- batch | obscf-eod-batch- 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscf- eod-batch-5.1.0\ARCHIVE | OBSCF EOD Batch managed server |
| obscfcm- auto-recon- batch | obscfcm-auto- recon-batch- 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscf- auto-recon-batch-5.1.0\ARCHIVE | OBSCF auto recon managed server |
| obscfcm- charge- services | obscfcm-charge- services- 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICSE\obscfc m-charge-services-5.1.0\ARCHIVE | OBSCF charge services managed server |



| obscfcm- core-services | obscfcm-core- services- 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-core-services-5.1.0\ARCHIVE | OBSCF core services managed server |
|---|---|--|--|
| obscfcm- filter-services | obscfcm-filter- services - 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-filter-services-5.1.0\ARCHIVE | OBSCF filter services managed server |
| obscfcm- instruments- receivable- services | obscfcm- instruments- receivable- services- 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\ obscfcm-instruments-receivable-services- 5.1.0\ARCHIVE | OBSCF instruments managed server |
| obscfcm- master- maintenance -services | obscfcm-master- maintenance- services - 5.1.0.war | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-master-maintenance-services-5.1.0\ARCHIVE | OBSCF master maintenanc e managed server |
| obscfcm- recon- maintenance -services | obscfcm-recon- maintenance- services-5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-recon-maintenance-services-5.1.0\ARCHIVE | OBSCF recon maintenanc e managed server |
| obscfcm- manual- maintenance -services | obscfcm-manual- recon-services- 5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-manual-recon-services-5.1.0 \ARCHIVE | OBSCF manual recon managed server |
| obscfcm- report- services | obscfcm-report- services-5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-report-services\ARCHIVE | OBSCF report managed server |
| obscfcm- workflow- management -services | obscfcm- workflow- management- services-5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obscfc m-workflow-management-services-5.1.0\ARCHIVE | OBSCF workflow managemen t managed server |
| Obcm- collection- maintenance -services | obcm-collecrion- maintenance- services-5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\ obcm- collecrion-maintenance-services-5.1.0\ARCHIVE | Obcm collection maintenace services managed server |
| Obcm- collection- transaction- services | Obcm-collection- transaction- services -5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\ Obcm- collection-transaction-services-5.1.0\ARCHIVE | Obcm collection transaction services managed server |
| Obcm- cashflow- forecasting- services | Obcm-cashflow- forecasting- services-5.1.0 | OBCM_OSDC_14.4.0.0.1\OBCM_SERVICES\obcm- cashflow-forecasting-services-5.1.0\ARCHIVE | Obcm cash flow forecasting managed server |



6.3 Steps to Deploy as Application

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

7. Restarts and Refresh

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

7.1 <u>Restarting Servers</u>

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



8. Logging Area

8.1 Introduction

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

8.2 Logging Area

Plato Application writes logs in the below area of the server-<WEBLOGIC_DOMAIN_CONFIG_AREA>/ logs/

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.**

