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FINANCIAL SERVICES



Services Installation Guide

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1. Preface

1.1 Introduction

This guide would help you to install the Oracle Banking Supply Chain Finance 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 DB installation.

It is recommended to use dedicated managed server for each of the Oracle Banking Supply Chain Finance 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.



2. Domain and Cluster Configuration

2.1 Plato Infrastructure Domain Configuration

2.1.1 Prerequisites

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

Note: For the exact version to be installed, refer to the **Annexure – A: Environment Details** section in Release Notes.

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, refer to **Create Domain and Cluster Configuration** section in **Configuration and Deployment Guide**.



3. Database Setup

3.1 Introduction

In this section you are going to setup database related configuration for Oracle Banking Supply Chain Finance 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

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

Create the following database schemata. Schema Names mentioned below are recommended, but not mandatory.

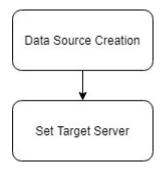
Database Schema Names
PLATO
PLATO_UI_CONFIG
PLATO_SECURITY
PLATO_FEED
PLATO_REPORT_SERVICE
PLATORULE
PLATO_BATCH
COMMON_CORE
PLATOALERTS
PLATO_TRANSPORT
PLATOORCH
PLATO_PASSWORD
SMSCD0
OBSCFCM_ACCOUNTING
OBSCFCM_ALERTS
OBSCF_BATCH
OBSCFCM_CHARGES
OBSCFCM_CORE_SERVICES
OBSCFCM_FILTER
OBSCFCM_INSTRUMENTS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



Database Schema Names
OBSCF_FINANCE
OBSCF_LIMIT_UTILIZ
OBSCF_REPORT
OBSCF_FCI_MESSAGES
OBSCF_ISLAMIC_INSTRUMENTS

3.3 Data Source Creation in WebLogic

Database and application setup for OBSCF 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 OBSCF services and the steps to configure them in the server.



3.4 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.

Database Connection Pool size to be defined - OBSCF 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_ACCOUNT	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/AUTORECON BATCH
obscfcm-auto-recon- batch	PLATO_BATCH	PLATO_BATCH	jdbc/PLATOBATCH
obscfcm-auto-recon- batch	AUTORECONBATC H	OBSCFCM_RECON	jdbc/AUTORECON BATCH



Application	Data Source Name	Mapped Database Schema	Data source JNDI
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_INSTRUM ENTS	jdbc/OBSCFCM_ INSTRUMENTS
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
obscfcm-batch-jobs	OBSCFCM-BATCH- JOBS	OBSCFCM-BATCH- JOBS	jdbc/OBSCFCM- BATCH-JOBS
obscf-core-services	OBSCF_CORE	OBSCF_CORE	jdbc/OBSCF_ CORE
obscf-finance-services	OBSCF_FINANCE	OBSCF_FINANCE	jdbc/OBSCF_ FINANCE
obscf-limits-services	OBSCF_LIMIT_ UTILIZ	OBSCF_LIMIT_UTILIZ	jdbc/OBSCF_LIMIT
obscf-report-services	OBSCF_REPORT	OBSCF_REPORT	jdbc/OBSCF_REP ORT
obscf-islamic- instruments-services	OBSCF-ISLAMIC- INSTRUMENTS	OBSCF-ISLAMIC- INSTRUMENTS	jdbc/OBSCF- ISLAMIC- INSTRUMENTS
obscf-fci-messaging- service	OBSCF_FCI_ MESSAGES	OBSCF_FCI_MESSAG ES	jdbc/OBSCF_FCI_ MESSAGES
plato-password-policy- service	PLATO_ PASSWORD	PLATO_PASSWORD	jdbc/PLATO_ PASSWORD
	PLATO	PLATO	jdbc/PLATO
To be mapped with all	PLATO_UI_ CONFIG	PLATO_UI_CONFIG	jdbc/PLATO_UI_ CONFIG
managed servers	SMS	SMSCD0	jdbc/sms
	CMNCORE	COMMON_CORE	jdbc/CMNCORE

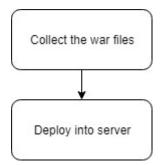
Note: For creating data source, refer to the **Create Data source** section in **Configuration and Deployment Guide**.



4. Deployments

4.1 Pre-requisite

The database setup and data sources creation must 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 OBSCF service and the steps to deploy them into the server.



- Environment variables need to be set. Refer to Configuration and Deployment Guide.
- For any issues with fly configuration setup, refer to High Availability Setup Guide.
- For OBSCF environment variables setup, refer to **OBSCF 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 OBSCF, then execute below (JobList.txt) script in OBSCF_BATCH schema to ensure common core events are triggered from OBSCFCM EOD:



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 Start-up 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 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
 - ii. obscfcm-day0-service
 - iii. obscf-day0-service
- 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.

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

Application	Archive name	OSDC path	Targets
obscf-core- services	obscf-core-services- {version}.war	OBSCF_OSDC_{release} \OBSCF_SERVICES\obscf-core- services-{version}\ARCHIVE	obscf_ms_2
obscf-finance- services	obscf-finance-services- {version}.war	OBSCF_OSDC_{release}\OBSCF _SERVICES\obscf-finance- services -{version}\ARCHIVE	obscf_ms_1
obscf-limits- services	obscf-limits-services- {version}.war	OBSCF_OSDC_{release}\OBSCF _SERVICES\obscf-limits-services -{version}\ARCHIVE	obscf_ms_1
obscf-report- services	obscf-report-services- {version}.war	OBSCF_OSDC_{release}\OBSCF _SERVICES\obscf-report- services -{version}\ARCHIVE	obscf_ms_1
obscf-day0- service	obscf-day0-service- {version}.war	OBSCF_OSDC_{release}\OBSCF _SERVICES\obscf-day0-service- {version}\ARCHIVE	OBSCFDAY 0
obscf-fci- messaging- service	obscf-fci-messaging- service-{version}.war	OBSCF_OSDC_{release}\OBSCF _SERVICES\obscf-fci-messaging- service-{version}.war \ARCHIVE	obscf_ms_1
obscf-islamic- instruments- services	obscf-islamic- instruments-services- {version}.war	OBSCF_OSDC_{release}\OBSCF _SERVICES\obscf-islamic- instruments-services- {version}.war \ARCHIVE	obscf_ms_1
obscfcm- account- maintenance- services	obscfcm-account- maintenance-services- {version}.war	OBSCF_OSDC_{release}\OBCM _SERVICES\obscfcm-account- maintenance-services- {version}\ARCHIVE	obscfcm_ms _1
obscfcm- alerts-services	obscfcm-alerts-services- {version}.war	OBSCF_OSDC_{release}\OBCM _SERVICES\obscfcm-alerts- services-{version}\ARCHIVE	obscfcm_ms _1
obscfcm- batch-jobs	obscfcm-batch-jobs- {version}.war	OBSCF_OSDC_{release}\OBCM _SERVICES\obscfcm-batch-jobs- {version}\ARCHIVE	obscfcm_ms _1
obscfcm- chatbot- services	obscfcm-chatbot- services-{version}.war	OBSCF_OSDC_{release}\OBCM _SERVICES\obscfcm-chatbot- services-{version}\ARCHIVE	obscfcm_ms _1
obscfcm-eod- batch	obscfcm-eod-batch- {version}.war	OBSCF_OSDC_{release}\OBCM _SERVICES\obscfcm-eod-batch- {version}\ARCHIVE	obscfcm_ms _1



obscfcm-auto-	obscfcm-auto-recon-	OBSCF_OSDC_{release}\OBCM	obscfcm_ms
recon-batch	batch-{version}.war	_SERVICES\obscfauto-recon- batch-{version}\ARCHIVE	_2
obscfcm-	obscfcm-charges-	OBSCF_OSDC_{release}OBCM_	obscfcm_ms
charges-	services-{version}.war	SERVICE\obscfcm -charges-	_2
services		services-{version}\ARCHIVE	
obscfcm-core-	obscfcm-coreservices-	OBSCF_OSDC_{release}OBCM_	obscfcm_ms
services	{version}.war	SERVICE\obscfcm -core-	_2
		services-{version}\ARCHIVE	
obscfcm-filter-	obscfcm-filter-services-	OBSCF_OSDC_{release}\OBCM	obscfcm_ms
services	{version}.war	_SERVICES\obscfcm-filter-	_2
- h f	ala afana in atmuna anta	services-{version}\ARCHIVE	- h f - m - m
obscfcm- instruments-	obscfcm-instruments- receivables-services-	OBSCF_OSDC_{release}\OBCM _SERVICES\obscfcm-	obscfcm_ms
receivables-	{version}.war	instruments-receivables-services-	_2
services	{version}.wai	{version}\ARCHIVE	
obscfcm-	obscfcm-manual-recon-	OBSCF_OSDC_{release}\OBCM	obscfcm ms
manual-	services-{version}.war	SERVICES\obscfcm-manual-	_3
reconservices		recon-services-	_
		{version}\ARCHIVE	
obscfcm-	obscfcm-report-services-	OBSCF_OSDC_{release}\OBCM	obscfcm ms
report-	{version}.war	SERVICES\obscfcm-report-	_3
services		services-{version}\ARCHIVE	-
obscfcm-	obscfcm-	OBSCF_OSDC_{release}\OBCM	obscfcm_ms
workflowmana	workflowmanagementser	_SERVICES\obscfcm-workflow-	_3
gement	vices-{version}.war	management-	
services		services7.2.0\ARCHIVE	
obscfcm-	obscfcm-master-	OBSCF_OSDC_{release}\OBCM	obscfcm_ms
master-	maintenance-services-	_SERVICES\obscfcm-master-	_3
maintenance-	{version}.war	maintenance-services-	
services		{version}\ARCHIVE	
obscfcm-	obscfcm-workflow-	OBSCF_OSDC_{release}\OBCM	obscfcm_ms
workflow-	management-services-	_SERVICES\obscfcm-workflow-	_3
management-	{version}.war	management-services-	
services	abaafam day0	{version}\ARCHIVE	abaafam. D
obscfcm-day0- service	obscfcm-day0-service-	OBSCF_OSDC_{release}\OBCM	obscfcm_D AY0
Service	{version}.war	_SERVICES\obscfcm-day0- service-{version}\ARCHIVE	ATU
		SEIVICE-{VEISION}VARCHIVE	

4.3 Steps to Deploy as Application

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



5. Conductor Process Installation

This section helps you to install the OBSCF Conductor based process on designated environment. It is assumed that all the prior setup is already done related to Netflix Conductor.

5.1 OBSCF Processes

In conductor, workflows are defined using a JSON based DSL and includes a set of tasks that are executed as part of the workflows. The tasks are either system tasks or simple tasks (aka worker tasks). These simple/worker tasks are implemented by application(s) and run in a separate environment from Conductor. These tasks talk to Conductor server via REST client.

In OBSCF, for every workflow, a workflow definition JSON will be maintained.

Deploy the following list of conductor processes for OBSCF. The deployable units are available in the **obscfcm-workflow-management-services** folder in the OSDC.

JSON File location: OBSCF_OSDC_{release} \OBSCF_SERVICES\ obscfcm-workflowmanagement-services- {version}.war\WEB-INF\classes\dsl\

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

S. No	Process Name	JSON name
1	REFUND	Refund.json
2	MANUALRECON	RECON.json
3	OBSCFCM_EOD	ObscfEod.json
4	NETTING	Netting.json
5	MGR	MarginRefund.json
6	INSTRUMENT	InstrumentWorkflow.json
7	INSTRUMENT_AUTODEBIT	InstrumentAutoDebitWorkflow.json
8	FINANCE_AUTODEBIT	FinanceAutoDebitWorkflow.json
9	FINANCE	Finance.json
10	FCIMSG	FciMsg.json
11	DISCOUNTING	Discounting.json



5.2 Steps to Deploy Conductor Process

Pre-Requisite: **PLATO-O** and **PLATO-ORCH-SERVICE** services should be up and registered in the Eureka registry. Refer to **Oracle Banking Microservices Platform Foundation Installation Guide** for the installation of PLATO-O and PLATO-ORCH-SERVICE.

Note: The steps for deploying are the same for all the above workflow process.

Note: The host name and port number of the PLATO-ORCH-SERVICE from the eureka registry should be used in this endpoint.

Perform the following steps to see how to deploy all the workflow process mentioned in the above table using app-shell:

- 1. Specify User Name and Password, and login to Home screen.
- 2. On **Home** screen, under **Tasks** menu, click **Business Process Maintenance**. The **Process List** screen displays.

Workflow Mainte	lance				:: ×
Process List	Process List				Screen(1/3
Process Management	Search: Search Workflow				
Verify & Submit	Search worknow				
	Process Name: blank	Version: blank	Upload DSL +		
	Process Name: INSTRUMENT	Version: 1	Process Description: N/A	Region Code: RW	
	Process Name: CMS	Version: 2	Process Description: N/A	Region Code: RW	
	Process Name: DATE_FLIP_WORKFLOW	Version: 2	Process Description: N/A	Region Code: RW	
	Process Name: INSTRUMENT_AUTODEBIT	Version: 2	Process Description: N/A	Region Code: RW	
	Process Name: INSTRUMENT	Version: 2	Process Description: N/A	Region Code: RW	
	Process Name: OBSCFCM_EOD	Version: 2	Process Description: OBSCECM EOD BATCH	Region Code: RW	
	Process Name: OBSCFCM_EOD	Version: 3	Process Description: OBSCFCM EOD BATCH	Region Code: RW	
	Process Name: OBSCFCM_EOD	Version: 4	Process Description: OBSCECM EOD BATCH	Region Code: RW	
	Process Name: DISCOUNTING	Version: 2	Process Description: Completes the Discount Offer Ci flow	reation Region Code: RW	
	Process Name: MANUALRECON	Version: 16	Process Description: MANUALRECON	Region Code: RW	
					Cancel Next

- 3. Select the Process Name: blank checkbox.
- 4. Click **Upload DSL+** button to upload the JSON file from the path mentioned in the above table.
- 5. Click **Next** button.

The Process Management screen displays.

Process List	Process Management			Screen(2/3
Process Management	Process Name	Vertion	Process Description	
Verify & Submit	INSTRUMENT	1		
	All Stage List		Process Stage List	
	Type task name	Type workflow name	> Is ML Transaction check	
			> Is File Upload	
	Fetch		> Is In Progress Kafka Task Required	
	Name 0	Type C	> IsKAFKA_postAuth_cashflow	
	Approve_Accounting	HTTP	> Is File Upload Transaction	
	Authorization	WAIT	> Is Portal Transaction	
	Cancel_Eca	нттр	COMPLETION	:
	Check authorization response	DECISION		
	Is mater update retry required	DECISION		
	Is ECA Success	DECISION		
	Constr. Ers	urm		
	Create Stage			

6. Click **Next** button.



The Verify & Submit screen displays.

Workflow Mainte	enance	:: ×
Process List	Verify & Submit	Screen(3/3)
Process Management		
Verify & Submit	Preview Save as Regional Process Create Process Export DSL	
	Process Task List	
	INM Transaction DECISION	
	File_uslad_check DECISION	
	INTAFKA, postAuth, Invapidate DE CISION	
	IsKAFKA_DostAult_cashflow DECNION	
	is_file_uplosd_ton DECISION	
		Cancel Back

7. Click **Create Process** to deploy the workflow process definition. The **Process Created Successfully** popup menu displays.

Workflow Mainte	enance	;: ×
Process List	Verify & Submit	Screen(3/3)
Process Management		
Verity 4, Salamit	Prevent Control Regional Process Count Prevent Count Disk Process Task Exit Among application (risks) Among application (risks) Among application (risks) Instruction, check DECISION Among application (risks) Among application (risks) Instruct, check DECISION Among application (risks) Among application (risks) Instruct, check DECISION Among application (risks) Among application (risks) Instruct, check DECISION Among application (risks) Among application (risks) Instruct, check DECISION Among application (risks) Among application (risks) Instruct, check DECISION Among application (risks) Among application (risks) Instruct, check DECISION Among application (risks) Among application (risks)	Corr
		Cancel Back

- 8. If an existing process is modified, a new process with updated version would appear on the process list screen or else a new process would appear
- 9. Click Cancel to exit from the Business Process Maintenance menu.
- 10. To verify if the workflow is registered properly, verify the **Version** number in the **Process** List screen against the version number in the **META_WORKFLOW_DEF** table of the **OBSCFCM_WORKFLOWS_CONDUCTOR** database schema.



6. Restarts and Refresh

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

6.1 <u>Restarting Servers</u>

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

6.2 Restart Order

- 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

6.3 Caching Impact

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

7.1 Introduction

This section provides information on the logs area after deployment of Plato Applications in WebLogic server.

7.2 Logging Area

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

