

Oracle® Financial Services Interconnect Services Installation Guide



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Purpose

This guide helps you to install the Party Services, User Interface, and Conductor Process flow on designated environments.

Audience

This document is intended for WebLogic admin or ops-web team who are responsible for installing the banking products of Oracle Financial Services Software Limited.

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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.

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.

Related Resources

For more information, see these Oracle resources:

- *License Guide*
- *Oracle Banking Microservices Platform Foundation Installation Guide*
- *Common Core Services Installation Guide*
- *Security Management System Services Installation Guide*

Prerequisites

Make sure that the following setup is completed:

- Oracle WebLogic Installation
- Oracle WebLogic Managed Server Creation
- Oracle Database Installation

Note

For the exact versions to be installed, refer to the **Environment Details** section in the *License Guide*.

Organization

Interconnect Services

This guide would allow you to install the below mentioned Interconnect services, UI, process flow in the specified order. It is recommended to use dedicated managed server for each of the Party Services.

- cmc-inc-file-services

- cmc-inc-file-monitor-services
- cmc-obrh-service
- cmc-obrh-kafka-consumer
- plato-edp-services

Note

It is recommended to use a dedicated managed server for each of the Interconnect Services.

User Interface

The following war files need to be deployed to migrate from the existing app-shell build to the foundationapp-shell. The UI war is divided into individual component server war files using the foundation app-shell. The user need to delete any single UI app-shell war version that is installed previously and follow the below steps. All the component server war files should be deployed in the same managed server.

Deploy the following war files of the common core:

- app-shell
- cmc-component-server
- sms-component-server

1

Database Set Up

This topic describes the database setup related configuration for Interconnect services installation.

Prerequisites

The below setup is dependent on Common Core Schema and SMS schema.

Before proceeding with the below setup, make sure that the Common Core Schema and SMS Schema is provided.

Note

The schema objects and the static data required for the microservice will be automatically created during the deployment of the microservice in the respective schema.

To set up the database, perform the following steps:

Create the schemas in the database instance for Interconnect Services. For information on schemas to be created, refer to the table below:

Table 1-1 Database Setup

Service Name	Schema Required
CMC-INC-FILE-SERVICES	Yes(Common Core Schema)
CMC-INC-FILE-MONITOR-SERVICES	Yes(Common Core Schema)
CMC-OBRH-SERVICE	Yes(Common Core Schema)
CMC-OBRH-KAFKA-CONSUMER	Yes(Common Core Schema)
PLATO-EDP-SERVICES	Yes(PLATOEDP Schema)

2

Configure Interconnect Services and Domains

This topic provides information on configuring interconnect services and its domain.

You need to configure the services and domains as a part of the installation of the Interconnect Services.

The prerequisites are as follows:

1. The machine should have Java JDK installed.
2. The machine should have **Fusion Middleware Configuration Wizard** installed.

Note

Before proceeding with the below steps, complete Oracle Banking Microservices Architecture installation as guided.

3. Steps for creating all Common core domains, properties like port numbers, names will be changing based on the domain. Screenshots provided for such deviations. The domain creation process remains the same.

Note

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

Steps to Create Domain

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

Create Data Sources

This topic describes about the data sources creation for Common Core services.

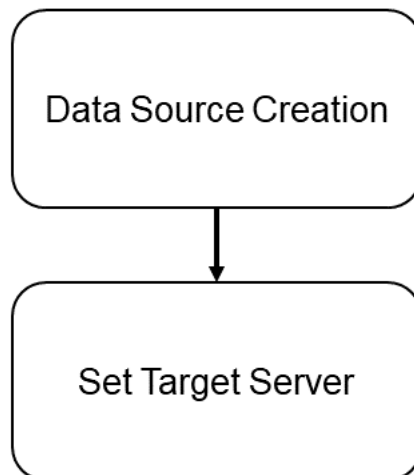
Prerequisites

Database and application setup for Oracle Banking Microservices Architecture must be performed before the deployment setup.

The data sources for the respective micro-services must be created before the application deployment. Each data source targets the corresponding server on which the application will be deployed.

The following sections describes the list of data sources required to be created for Common Core services and the steps to configure them in the server.

Figure 3-1 Process Data Source Creation



Perform the following steps to create the data sources:

1. Create the data sources on each domain prior to the deployment of applications onto managed server.

Note

For more information on data source creation, refer to the **How to create Data sources** section in *Configuration and Deployment Guide*.

Table 3-1 Data Sources

Service Name	Data Source Name	Data Source JNDI	Targets
CMC-INC-FILE-SERVICES	CMNCORE	jdbc/CMNCORE	Common Core Managed Server
CMC-INC-FILE-MONITOR-SERVICES	CMNCORE	jdbc/CMNCORE	Common Core Managed Server
CMC-OBHR-SERVICE	CMNCORE	jdbc/CMNCORE	Common Core Managed Server
CMC-OBHR-KAFKA-CONSUMER	CMNCORE	jdbc/CMNCORE	Common Core Managed Server
PLATO-EDP-SERVICES	PLATOEDP	jdbc/PLATOEDP	PLATOEDP Managed Server

2. Map the following data sources to all the newly created managed servers in order to deploy the services successfully.

Note

This mapping is required for the JNDI requirement for flyway migration.

Table 3-2 Additional Data Sources

Data Source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Common Core Managed Server
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	Common Core Managed Server
PLATO_SECURITY	jdbc/PLATO_SECURITY	Common Core Managed Server
SMS	jdbc/sms	Common Core Managed Server
PLATO_ALERTS	jdbc/PLATO_ALERTS	Common Core Managed Server
PLATO_BATCH	jdbc/PLATO_BATCH	Common Core Managed Server

4

Deploy Services

This topic describes the list of war files for the deployment and deprecation of the Common Core services, and the steps to deploy and undeploy them in the server.

You need to deploy the services in the specified order for the Interconnect Services to run. The prerequisites are as follows:

- Make sure that the database setup and data sources creation are completed before application deployment.
- Make sure that all placeholder values are set correctly in the `setUserOverrides.sh` file.

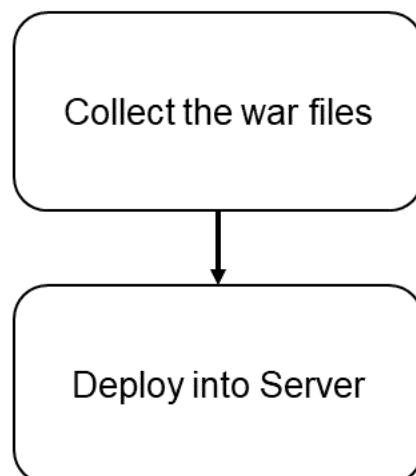
For more information, refer to the *Oracle Banking Microservices Platform Foundation Installation Guide*.

① Note

- If any placeholder is missed, the deployment will fail, and incorrect values will result from errors in the application.
- Before proceeding, deploy `plato_batch_server`, `plato_rule_service`, and `plato_regional_configurator_services`. For more information, refer to the *Oracle Banking Microservices Platform Foundation Installation Guide*.

Each of the services corresponds to a specific war file that needs to be deployed into the server. The following diagram explains the process of deploying the war files.

Figure 4-1 Deployment Process



To deploy the services:

- Deploy the war files one after the other in the specified order. For more information on deployments, refer to the **How to Deploy** section in *Configuration and Deployment Guide*.

Table 4-1 Deployments List

Application	Archive name	OSDC path	Targets
CMC-INC-FILE-SERVICES	cmc-inc-file-services-{version}.war	{Unzip OSDC Package} \cmc-inc-file-services	Common Core Managed Server
CMC-INC-FILE-MONITOR-SERVICES	cmc-inc-file-monitor-services-{version}.war	{Unzip OSDC Package} \cmc-inc-file-monitor-services	Common Core Managed Server
CMC-OBHR-SERVICE	cmc-obrh-service-{version}.war	{Unzip OSDC Package} \cmc-obrh-service	Common Core Managed Server
CMC-OBHR-KAFKA-CONSUMER	cmc-obrh-kafka-consumer-{version}.war	{Unzip OSDC Package} \cmc-obrh-kafka-consumer	Common Core Managed Server
PLATO-EDP-SERVICES	plato-edp-services-{version}.war	{Unzip OSDC Package} \plato-edp-services	PlatoEDP Managed Server

5

Restart and Refresh

This topic provides the information to restart and refresh the application.

Once everything is deployed, restart all the managed servers. For each application call path, / refresh to refresh the configuration properties.

For more information on restarting the server, refer to the **How to Restart** section in *Configuration and Deployment Guide*.

6

Logging Area

This topic describes the logging area where the logs are found after deploying the Common Core applications in the WebLogic server.

Common Core Application writes logs in the below area of the server:

```
<WEBLOGIC_DOMAIN_CONFIG_AREA>/servers/CMNCOREAPP/logs/CMNCOREAPP.out
```

Let's assume a domain has been created **CommonCore_domain** with **managed_server** name called **CMNCOREAPP** in the following server area.

```
/scratch/oracle/middleware/user_projects/domains/CommonCore_domain.
```

Logging area for Common core is /scratch/oracle/middleware/user_projects/domains/CommonCore_domain/servers/CMNCOREAPP/logs/CMNCOREAPP.out

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