

Oracle® Financial Services Interconnect Common Core Services Installation Guide



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Purpose

This guide helps to install the common core services on designated environment. It is assumed that all the prior setup is already done related to WebLogic installation, WebLogic managed server creation, and Oracle DB installation.

Note

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

It is recommended to use the dedicated managed server for each of the common core services.

Audience

This guide is intended for the WebLogic admin or ops-web team who are responsible for installing the OFSS banking products.

Documentation Accessibility

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Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts](#)

[and Bulletins](#). All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

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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.

Related Resources

For more information, refer to the following documents:

- *Configuration and Deployment Guide*

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.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table List of Acronyms and Abbreviations

Abbreviation	Description
SMS	Security Management System
CMC	Common Core

Organization

This guide allows the user to install the following services:

1. CMC-BASE-SERVICES
2. CMC-BRANCH-SERVICES
3. CMC-BUSINESSOVERRIDES-SERVICES

4. CMC-CURRENCY-SERVICES
5. CMC-DATASEGMENT-SERVICES
6. CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE
7. CMC-SCREENCLASS-SERVICES
8. CMC-RESOUECECLASS-SERVICES
9. CMC-TRANSACTIONCONTROLLER-SERVICES
10. CMC-CUSTOMER-SERVICES

1

Database Setup

This topic describes the database setup related configuration for Common Core 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.

Database Setup

To set up Database, Common Core schema to be created.

Table 1-1 List of Services

Service Name	Schema Required
CMC-BASE-SERVICES	Yes (Common Core Schema)
CMC-BRANCH-SERVICES	Yes (Common Core Schema)
CMC-BUSINESSOVERRIDES-SERVICES	Yes (Common Core Schema)
CMC-CURRENCY-SERVICES	Yes (Common Core Schema)
CMC-DATASEGMENT-SERVICES	Yes (Common Core Schema)
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE	Yes (Common Core Schema)
CMC-SCREENCLASS-SERVICES	Yes (Common Core Schema)
CMC-RESOUCECLASS-SERVICES	Yes (Common Core Schema)
CMC-TRANSACTIONCONTROLLER-SERVICES	Yes (Common Core Schema)
CMC-CUSTOMER-SERVICES	Yes (Common Core Schema)

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Domain and Cluster Configuration

This topic describes the domain configuration for Common Core services.

Prerequisites

Before proceeding with the below setup, make sure that the below steps are done.

- The machine should have Java JDK installed.
- Oracle Fusion Middleware is installed on the machine.

Note

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

- 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

Data Sources Creation

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

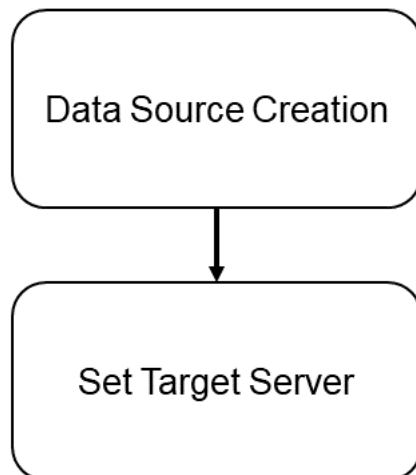
Prerequisites

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 Data Source Creation



Data Sources List

The below list of the data sources must be created for each domain before the deployment of applications onto the managed servers.

Table 3-1 Data Sources List

Data Source Name	Data Source JNDI	Targets
PLATO	jdbc/PLATO	Common Core Managed Server
CMNCORE	jdbc/CMNCORE	Common Core Managed Server, API Gateway Server
PLATOBATCH	jdbc/PLATOBATCH	Common Core Managed Server
SMS	jdbc/sms	Common Core Managed Server

Table 3-1 (Cont.) Data Sources List

Data Source Name	Data Source JNDI	Targets
PLATOUI	jdbc/PLATO_UI_CONFIG	Common Core Managed Server
PLATOFEED	jdbc/PLATOFEED	Common Core Managed Server
PLATOSECURITY	jdbc/PLATO_SECURITY	Common Core Managed Server
PLATOALERTS	jdbc/PLATO_ALERTS	Common Core Managed Server
PLATOTRANSPORT	jdbc/PLATO_TRANSPORT	Common Core Managed Server

Note

Steps to create data source in WebLogic is same for all the above except for the connection details and names.

Common Core Services using Plato-Feed

The below listed common core services requires the data source to be created for plato-feeds on each domain prior to deployment of applications onto managed servers.

Table 3-2 List of Services using Plato-Feed

Service Name	Data Source Name	Data Source JNDI	Targets
cmc-base-services	PLATOFEED	jdbc/PLATOFEED	Common Core Managed Server
cmc-branch-services	PLATOFEED	jdbc/PLATOFEED	Common Core Managed Server
cmc-currency-services	PLATOFEED	jdbc/PLATOFEED	Common Core Managed Server

Database Grant Privileges

The below listed user privileges are required for Machine Learning Framework:

- GRANT CREATE MINING MODEL TO <PRODUCT PROJECTION SCHEMA>;
- GRANT CREATE ANY MINING MODEL TO <PRODUCT PROJECTION SCHEMA>;
- GRANT ALTER ANY MINING MODEL TO <PRODUCT PROJECTION SCHEMA>;
- GRANT DROP ANY MINING MODEL TO <PRODUCT PROJECTION SCHEMA>;
- GRANT SELECT ANY MINING MODEL TO <PRODUCT PROJECTION SCHEMA>;
- GRANT COMMENT ANY MINING MODEL TO <PRODUCT PROJECTION SCHEMA>;
- GRANT EXECUTE ON DBMS_DATA_MINING to <PRODUCT PROJECTION SCHEMA>;
- GRANT CREATE JOB TO <PRODUCT PROJECTION SCHEMA>;

Steps to create Data Source

For creating data sources in managed server, refer to **Create Data Sources** section in *Configuration and Deployment Guide*.

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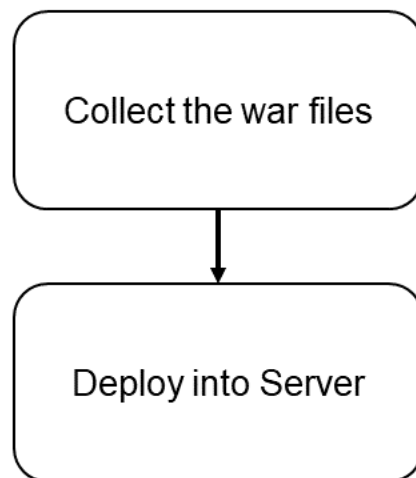
Deployments

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.

Prerequisites

The database setup and data sources creation need to be performed before the application deployment stage. Each of the services corresponds to a specific war file that needs to be deployed into the server.

Figure 4-1 Deployments



Deployments List

The below table provides the details of the deployments required on each domain for the Common Core application to run. Deploy one after the other in the same order as given below.

Table 4-1 Deployments List

Application	Archive name	OSDC path	Targets
CMC-BASE-SERVICES	cmc-base-services-{version}.war	{Unzip OSDC Package} \cmc-base-services	Common Core Managed Server
CMC-BRANCH-SERVICES	cmc-branch-services-{version}.war	{Unzip OSDC Package} \cmc-branch-services	Common Core Managed Server
CMC-BUSINESSOVERRIDES-SERVICES	cmc-businessoverrides-services-{version}.war	{Unzip OSDC Package} \cmc-businessoverrides-services	Common Core Managed Server
CMC-CURRENCY-SERVICES	cmc-currency-services-{version}.war	{Unzip OSDC Package} \cmc-currency-services	Common Core Managed Server

Table 4-1 (Cont.) Deployments List

Application	Archive name	OSDC path	Targets
CMC-DATASEGMENT-SERVICES	cmc-datasegment-services-{version}.war	{Unzip OSDC Package} \cmc-datasegment-services	Common Core Managed Server
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE	cmc-resource-segment-orchestrator-service-{version}.war	{Unzip OSDC Package} \cmc-resource-segment-orchestrator-service	Common Core Managed Server
CMC-SCREENCLASS-SERVICES	cmc-screenclass-services-{version}.war	{Unzip OSDC Package} \cmc-screenclass-services	Common Core Managed Server
CMC-RESOURCECLASS-SERVICES	cmc-resourceclass-services-{version}.war	{Unzip OSDC Package} \cmc-resourceclass-services	Common Core Managed Server
CMC-TRANSACTIONCONTROLLER-SERVICES	cmc-transactioncontroller-services-{version}.war	{Unzip OSDC Package} \cmc-transactioncontroller-services	Common Core Managed Server
CMC- CUSTOMER-SERVICES	cmc-customer- services-{version}.war	{Unzip OSDC Package} \cmc-customer- services	Common Core Managed Server

 Note

Refer to OSDC file for the exact version number for each service.

For the instructions to deploy the application, refer to the **Deploy Application** section in *Configuration and Deployment Guide* .

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Restarts and Refresh

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

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

Note

Refer to the **Restart Servers** section in *Configuration and Deployment Guide* for the instruction to restart the server.

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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