

# Common Core Service Installation Guide

Release 14.4.0.0.1

Part No. F30771-01

May 2020



## Common Core Service 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/](http://www.oracle.com/financialservices/)

Copyright © 2020, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

**U.S. GOVERNMENT END USERS:** Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited. The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

# Table of Contents

- 1. PREFACE ..... 1-1**
  - 1.1 INTRODUCTION ..... 1-1
  - 1.2 AUDIENCE..... 1-1
  - 1.3 DOCUMENTATION ACCESSIBILITY ..... 1-1
  - 1.4 ORGANIZATION..... 1-1
  - 1.5 DOCUMENTS ..... 1-2
  
- 2. DATABASE SETUP..... 2-1**
  - 2.1 INTRODUCTION ..... 2-1
  - 2.2 PRE-REQUISITE ..... 2-1
  - 2.3 DATABASE SETUP ..... 2-1
  
- 3. 1. DOMAIN AND CLUSTER CONFIGURATION ..... 3-1**
  - 3.1 COMMON CORE DOMAIN CONFIGURATION..... 3-1
    - 3.1.1 Prerequisites ..... 3-1
    - 3.1.2 Steps to Create Domain ..... 3-1
  
- 4. DATA SOURCES CREATION..... 4-1**
  - 4.1 PREREQUISITE ..... 4-1
  - 4.2 DATA SOURCES LIST ..... 4-1
  - 4.3 CREATING DATA SOURCE ..... 4-1
  
- 5. DEPLOYMENTS ..... 5-2**
  - 5.1 PRE-REQUISITE ..... 5-2
  - 5.2 DEPLOYMENTS LIST..... 5-2
  - 5.3 STEPS TO DEPLOY AS APPLICATION ..... 5-5
  
- 6. RESTARTS AND REFRESH..... 6-6**
  - 6.1 RESTARTING SERVERS ..... 6-6
  
- 7. LOGGING AREA ..... 7-7**
  - 7.1 INTRODUCTION ..... 7-7
    - 7.1.1 Logging Area:-..... 7-7

## 1.1 Introduction

This guide would help you to install the Plato infrastructure services on designated environment. It is assumed that all the prior setup is already done related with WebLogic 12.2.1.4 installation, WebLogic managed server creation and Oracle DB installation. It is recommended to use dedicated managed server for each of the Plato infrastructure 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

1. CMC-ACCOUNT-SERVICES
2. CMC-ADVICE-SERVICES
3. CMC-BASE-SERVICES
4. CMC-BATCH-SERVICES
5. CMC-BRANCH-SERVICES
6. CMC-BUSINESSOVERRIDES-SERVICES
7. CMC-COREBANKING-ADAPTER-SERVICE
8. CMC-CURRENCY-SERVICES
9. CMC-CUSTOMER-SERVICES
10. CMC-DATASEGMENT-SERVICES
11. CMC-EXTERNAL-CHART-ACCOUNT
12. CMC-EXTERNAL-SYSTEM-SERVICES
13. CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES
14. CMC-FACILITIES-SERVICE
15. CMC-NLP-ANNOTATOR-SERVICES
16. CMC-NLP-DASHBOARD-WIDGET-SERVICES
17. CMC-NLP-MODEL-MNGMNT-SERVICES
18. CMC-NLP-ONLINE-PROCESSING-SERVICES
19. CMC-NLP-TAG-MAINT-SERVICES
20. CMC-NLP-TEXT-EXTRACTION-SERVICES
21. CMC-NLP-TXN-LOG-SERVICES
22. CMC-NLP-UTIL-SERVICES
23. CMC-REPORT-SERVICE
24. CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE
25. CMC-SCREENCLASS-SERVICES
26. CMC-SETTLEMENTS-SERVICES
27. CMC-TRANSACTIONCONTROLLER-SERVICES

28. CMC-TXN-CODE-SERVICES
29. CMC-APPLICATIONCATEGORY-SERVICES
30. CMC-CHECKLIST-SERVICES
31. CMC-CHECKLISTMANAGEMENT-SERVICES
32. CMC-COMMENTS-SERVICES
33. CMC-DOCUMENT-SERVICES
34. CMC-DOCUMENTMANAGEMENT-SERVICES
35. CMC-EARMARK-SERVICES
36. CMC-KYCCHECK-SERVICES
37. CMC-MAILNOTIFICATION-SERVICES
38. CMC-PRIORITY-SERVICES
39. CMC-PROCESSCODE-SERVICE
40. CMC-QUEUE-SERVICES
41. CMC-SEQUENCEGENERATOR-SERVICES
42. CMC-ADDITIONAL-ATTRIBUTES-SERVICES
43. CMC-WORKFLOW-TASK-SCHEDULER-SERVICE

## 1.5 **Documents**

- ANNEXURE-1

## 2. Database Setup

### 2.1 Introduction

In this section you are going to setup database related configuration for Common Core Installation.

### 2.2 Pre-requisite

Below setup is dependent on Common Core Schema and SMS schema. So, before you proceed with below setup ensure Common Core Schema and SMS Schema is provided to you.

### 2.3 Database Setup

To setup DB for Common Core schema's to be created-

Database Schema Name
COMMON_CORE

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

Schema will be required for all the below services:

Service Name	Schema Required
CMC-ACCOUNT-SERVICES	Yes (Common Core Schema)
CMC-ADVICE-SERVICES	Yes (Common Core Schema)
CMC-BASE-SERVICES	Yes (Common Core Schema)
CMC-BATCH-SERVICES	Yes (Common Core Schema)
CMC-BRANCH-SERVICES	Yes (Common Core Schema)
CMC-BUSINESSOVERRIDES-SERVICES	Yes (Common Core Schema)
CMC-COREBANKING-ADAPTER-SERVICE	Yes (Common Core Schema)
CMC-CURRENCY-SERVICES	Yes (Common Core Schema)
CMC-CUSTOMER-SERVICES	Yes (Common Core Schema)
CMC-DATASEGMENT-SERVICES	Yes (Common Core Schema)
CMC-EXTERNAL-CHART-ACCOUNT	Yes (Common Core Schema)
CMC-EXTERNAL-SYSTEM-SERVICES	Yes (Common Core Schema)
CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES	Yes (Common Core Schema)

CMC-FACILITIES-SERVICE	Yes (Common Core Schema)
CMC-NLP-ANNOTATOR-SERVICES	Yes (Common Core Schema)
CMC-NLP-DASHBOARD-WIDGET-SERVICES	Yes (Common Core Schema)
CMC-NLP-MODEL-MNGMNT-SERVICES	Yes (Common Core Schema)
CMC-NLP-ONLINE-PROCESSING-SERVICES	Yes (Common Core Schema)
CMC-NLP-TAG-MAINT-SERVICES	Yes (Common Core Schema)
CMC-NLP-TEXT-EXTRACTION-SERVICES	Yes (Common Core Schema)
CMC-NLP-TXN-LOG-SERVICES	Yes (Common Core Schema)
CMC-NLP-UTIL-SERVICES	Yes (Common Core Schema)
CMC-REPORT-SERVICE	Yes (Common Core Schema)
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE	Yes (Common Core Schema)
CMC-SCREENCLASS-SERVICES	Yes (Common Core Schema)
CMC-SETTLEMENTS-SERVICES	Yes (Common Core Schema)
CMC-TRANSACTIONCONTROLLER-SERVICES	Yes (Common Core Schema)
CMC-TXN-CODE-SERVICES	Yes (Common Core Schema)
CMC-APPLICATIONCATEGORY-SERVICES	Yes (Common Core Schema)
CMC-CHECKLIST-SERVICES	Yes (Common Core Schema)
CMC-CHECKLISTMANAGEMENT-SERVICES	Yes (Common Core Schema)
CMC-COMMENTS-SERVICES	Yes (Common Core Schema)
CMC-DOCUMENT-SERVICES	Yes (Common Core Schema)
CMC-DOCUMENTMANAGEMENT-SERVICES	Yes (Common Core Schema)
CMC-EARMARK-SERVICES	Yes (Common Core Schema)
CMC-KYCCHECK-SERVICES	Yes (Common Core Schema)
CMC-MAILNOTIFICATION-SERVICES	Yes (Common Core Schema)
CMC-PRIORITY-SERVICES	Yes (Common Core Schema)
CMC-PROCESSCODE-SERVICE	Yes (Common Core Schema)
CMC-QUEUE-SERVICES	Yes (Common Core Schema)

CMC-SEQUENCEGENERATOR-SERVICES	Yes (Common Core Schema)
CMC-ADDITIONAL-ATTRIBUTES-SERVICES	Yes (Common Core Schema)
CMC-WORKFLOW-TASK-SCHEDULER-SERVICE	Yes (Common Core Schema)



---

## 3. 1. Domain and Cluster Configuration

### 3.1 Common Core Domain Configuration

#### 3.1.1 Prerequisites

1. Machine should have Java JDK1.8.0\_241 has installed.
2. Oracle Fusion Middleware 12cR2 12.2.1.4.0 has to be installed on the machine.  
[Note: Before proceeding with below steps complete Plato installation 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. Domain creation process remains the same.

#### 3.1.2 Steps to Create Domain

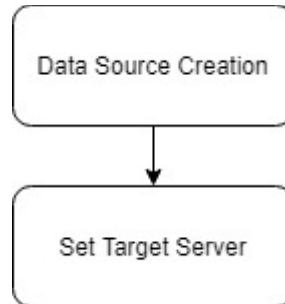
It is recommended to have different managed server in one domain for each application. For Creating Domain and Configuration please refer to ANNEXURE-1 "**How to create and Cluster Configuration**".

---

## 4. Data Sources Creation

### 4.1 Prerequisite

Database and application setup for PLATO 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 Common Core services and the steps to configure them in the server.



### 4.2 Data sources List

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

Data source Name	Mapped Database Schema	Data source JNDI	Targets
PLATO	PLATO	jdbc/PLATO	All Common Core Managed Servers
CMNCORE	COMMON_CORE	jdbc/CMNCORE	

Steps to create data source in WebLogic is same for all the above except for the connection details and names. Check the below screenshots to understand data source creation.

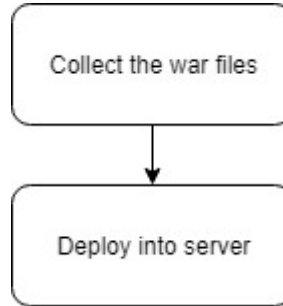
### 4.3 Creating Data source

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

## 5. Deployments

### 5.1 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 Common Core service and the steps to deploy them into the server.



Environment variables need to be set. Refer '**ANNEXURE-1**'.

For any issues with flyway configuration setup, Refer '**ANNEXURE-2**'.

For environment variables setup Refer '**OBSCF - Environment Variable Setup Guide**' section 2.2.

### 5.2 Deployments List

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

Application	Archive name	OSDC path	Targets
CMC-ACCOUNT-SERVICES	cmc-account-services-5.1.0.war	{Unzip OSDC Package}\cmc-account-services	Common Core Managed Server
CMC-ADVICE-SERVICES	cmc-advice-services-5.1.0.war	{Unzip OSDC Package}\cmc-advice-services	Common Core Managed Server
CMC-BASE-SERVICES	cmc-base-services-5.1.0.war	{Unzip OSDC Package}\cmc-base-services	Common Core Managed Server
CMC-BATCH-SERVICES	cmc-batch-services-5.1.0.war	{Unzip OSDC Package}\cmc-batch-services	Common Core Managed Server
CMC-BRANCH-SERVICES	cmc-branch-services-5.1.0.war	{Unzip OSDC Package}\cmc-branch-services	Common Core Managed Server

CMC-BUSINESSOVERRIDES-SERVICES	cmc-businessoverrides-services-5.1.0.war	{Unzip OSDC Package}\cmc-businessoverrides-services	Common Core Managed Server
CMC-COREBANKING-ADAPTER-SERVICE	cmc-corebanking-adapter-service-5.1.0.war	{Unzip OSDC Package}\cmc-corebanking-adapter-service	Common Core Managed Server
CMC-CURRENCY-SERVICES	cmc-currency-services-5.1.0.war	{Unzip OSDC Package}\cmc-currency-services	Common Core Managed Server
CMC-CUSTOMER-SERVICES	cmc-customer-services-5.1.0.war	{Unzip OSDC Package}\cmc-customer-services	Common Core Managed Server
CMC-DATASEGMENT-SERVICES	cmc-datasegment-services-5.1.0.war	{Unzip OSDC Package}\cmc-datasegment-services	Common Core Managed Server
CMC-EXTERNAL-CHART-ACCOUNT	cmc-external-chart-account-5.1.0.war	{Unzip OSDC Package}\cmc-external-chart-account	Common Core Managed Server
CMC-EXTERNAL-SYSTEM-SERVICES	cmc-external-system-services-5.1.0.war	{Unzip OSDC Package}\cmc-external-system-services	Common Core Managed Server
CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES	cmc-external-virtual-account-services-5.1.0.war	{Unzip OSDC Package}\cmc-external-virtual-account-services	Common Core Managed Server
CMC-FACILITIES-SERVICE	cmc-facilities-service-5.1.0.war	{Unzip OSDC Package}\cmc-facilities-service	Common Core Managed Server
CMC-NLP-ANNOTATOR-SERVICES	cmc-nlp-annotator-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-annotator-services	Common Core Managed Server
CMC-NLP-DASHBOARD-WIDGET-SERVICES	cmc-nlp-dashboard-widget-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-dashboard-widget-services	Common Core Managed Server
CMC-NLP-MODEL-MNGMNT-SERVICES	cmc-nlp-model-mngmnt-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-model-mngmnt-services	Common Core Managed Server
CMC-NLP-ONLINE-PROCESSING-SERVICES	cmc-nlp-online-processing-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-online-processing-services	Common Core Managed Server

CMC-NLP-TAG-MAINT-SERVICES	cmc-nlp-tag-maint-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-tag-maint-services	Common Core Managed Server
CMC-NLP-TEXT-EXTRACTION-SERVICES	cmc-nlp-text-extraction-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-text-extraction-services	Common Core Managed Server
CMC-NLP-TXN-LOG-SERVICES	cmc-nlp-txn-log-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-txn-log-services	Common Core Managed Server
CMC-NLP-UTIL-SERVICES	cmc-nlp-util-services-5.1.0.war	{Unzip OSDC Package}\cmc-nlp-util-services	Common Core Managed Server
CMC-REPORT-SERVICE	cmc-report-service-5.1.0.war	{Unzip OSDC Package}\cmc-report-service	Common Core Managed Server
CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE	cmc-resource-segment-orchestrator-service-5.1.0.war	{Unzip OSDC Package}\cmc-resource-segment-orchestrator-service	Common Core Managed Server
CMC-SCREENCLASS-SERVICES	cmc-screenclass-services-5.1.0.war	{Unzip OSDC Package}\cmc-screenclass-services	Common Core Managed Server
CMC-SETTLEMENTS-SERVICES	cmc-settlements-services-5.1.0.war	{Unzip OSDC Package}\cmc-settlements-services	Common Core Managed Server
CMC-TRANSACTIONCONTROLLER-SERVICES	cmc-transactioncontroller-services-5.1.0.war	{Unzip OSDC Package}\cmc-transactioncontroller-services	Common Core Managed Server
CMC-TXN-CODE-SERVICES	cmc-txn-code-services-5.1.0.war	{Unzip OSDC Package}\cmc-txn-code-services	Common Core Managed Server
CMC-APPLICATIONCATEGORY-SERVICES	cmc-applicationcategory-services-5.1.0.war	{Unzip OSDC Package}\cmc-applicationcategory-services	Common Core Managed Server
CMC-CHECKLIST-SERVICES	cmc-checklist-services-5.1.0.war	{Unzip OSDC Package}\cmc-checklist-services	Common Core Managed Server
CMC-CHECKLISTMANAGEMENT-SERVICES	cmc-checklistmanagement-services-5.1.0.war	{Unzip OSDC Package}\cmc-checklistmanagement-services	Common Core Managed Server

CMC-COMMENTS-SERVICES	cmc-comments-services-5.1.0.war	{Unzip OSDC Package}\cmc-comments-services	Common Core Managed Server
CMC-DOCUMENT-SERVICES	cmc-document-services-5.1.0.war	{Unzip OSDC Package}\cmc-document-services	Common Core Managed Server
CMC-DOCUMENTMANAGEMENT-SERVICES	cmc-documentmanagement-services-5.1.0.war	{Unzip OSDC Package}\cmc-documentmanagement-services	Common Core Managed Server
CMC-EARMARK-SERVICES	cmc-earmark-services-5.1.0.war	{Unzip OSDC Package}\cmc-earmark-services	Common Core Managed Server
CMC-KYC-CHECK-SERVICES	cmc-kyccheck-services-5.1.0.war	{Unzip OSDC Package}\cmc-kyccheck-services	Common Core Managed Server
CMC-MAILNOTIFICATION-SERVICES	cmc-mailnotification-services-5.1.0.war	{Unzip OSDC Package}\cmc-mailnotification-services	Common Core Managed Server
CMC-PRIORITY-SERVICES	cmc-priority-services-5.1.0.war	{Unzip OSDC Package}\cmc-priority-services	Common Core Managed Server
CMC-PROCESSCODE-SERVICE	cmc-processcode-service-5.1.0.war	{Unzip OSDC Package}\cmc-processcode-service	Common Core Managed Server
CMC-QUEUE-SERVICES	cmc-queue-services-5.1.0.war	{Unzip OSDC Package}\cmc-queue-services	Common Core Managed Server
CMC-SEQUENCEGENERATOR-SERVICES	cmc-sequencegenerator-services-5.1.0.war	{Unzip OSDC Package}\cmc-sequencegenerator-services	Common Core Managed Server
CMC-ADDITIONAL-ATTRIBUTES-SERVICES	cmc-additional-attributes-services-5.1.0.war	{Unzip OSDC Package}\cmc-additional-attributes-services	Common Core Managed Server
CMC-WORKFLOW-TASK-SCHEDULER-SERVICE	cmc-workflow-task-scheduler-service-5.1.0.war	{Unzip OSDC Package}\cmc-workflow-task-scheduler-service	Common Core Managed Server

### 5.3 Steps to Deploy as Application

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

---

## 6. Restarts and Refresh

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

### 6.1 Restarting Servers

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

---

## 7. Logging Area

### 7.1 Introduction

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

#### 7.1.1 Logging Area:-

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 area of the server

/scratch/oracle/middleware/user\_projects/domains/**CommonCore\_domain**. Logging area for Common core would be **/scratch/oracle/middleware/user\_projects/domains/ CommonCore\_domain/servers/CMNCOREAPP/logs/CMNCOREAPP.out**