# Common Core Services Installation Guide Oracle Banking Liquidity Management

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# 1. Preface

### 1.1 Introduction

This guide helps you to install the common core 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.

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

It is recommended to use dedicated managed server for each of the common core 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 guide allows you to install following services:

- CMC-ACCOUNT-SERVICES
- 2. CMC ADDITIONAL-ATTRIBUTES-SERVICES
- CMC-ADVICE-SERVICES
- 4. CMC-BASE-SERVICES
- 5. CMC-BATCH-SERVICES
- 6. CMC-BRANCH-SERVICES
- 7. CMC-BUSINESSOVERRIDES-SERVICES
- 8. CMC-CHARGES-CALCULATION-SERVICES
- 9. CMC-COREBANKING-ADAPTER-SERVICE
- 10. CMC-CURRENCY-SERVICES
- 11. CMC-CUSTOMER-SERVICES
- 12. CMC-DATASEGMENT-SERVICES
- 13. CMC-EXTERNAL-CHART-ACCOUNT
- 14. CMC-EXTERNAL-SYSTEM-SERVICES
- 15. CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES
- 16. CMC-FACILITIES-SERVICE
- 17. CMC-FC-AI-ML-SERVICES
- 18. CMC-ML-INDB-SERVICES
- 19. CMC-NLP-DASHBOARD-WIDGET-SERVICES
- 20. CMC-NLP- MAINTENANCE-SERVICES
- 21. CMC-NLP-OPENNLP-SERVICES
- 22. CMC-NLP-PIPELINE-SERVICES
- 23. CMC-NLP-TEXT-EXTRACTION-SERVICES
- 24. CMC-OBCBS-SERVICES
- 25. CMC-OBRH-SERVICE
- 26. CMC-REPORT-SERVICE



- 27. CMC-RESOURCE-SEGMENT-ORCHESTRATOR-SERVICE
- 28. CMC-SCREENCLASS-SERVICES
- 29. CMC-SETTLEMENTS-SERVICES
- 30. CMC-TRANSACTIONCONTROLLER-SERVICES
- 31. CMC-TXN-CODE-SERVICES
- 32. CMC-OPDS-SERVICES
- 33. CMC-TXN-CODE-SERVICESCMC-APPLICATIONCATEGORY-SERVICES
- 34. CMC-CHECKLIST-SERVICES
- 35. CMC-CHECKLISTMANAGEMENT-SERVICES
- 36. CMC-COMMENTS-SERVICES
- 37. CMC-DOCUMENT-SERVICES
- 38. CMC-DOCUMENTMANAGEMENT-SERVICES
- 39. CMC-KYCCHECK-SERVICES
- 40. CMC-MAILNOTIFICATION-SERVICES
- 41. CMC-PRIORITY-SERVICES
- 42. CMC-PROCESSCODE-SERVICE
- 43. CMC-SEQUENCEGENERATOR-SERVICES
- 44. CMC-ADDITIONAL-ATTRIBUTES-SERVICES
- 45. CMC-SLA-SERVICES

## 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 **Prerequisite**

Below setup is dependent on Common Core Schema and SMS schema. 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 to be created:

Service Name	Schema Required
CMC-ACCOUNT-SERVICES	Yes (Common Core Schema)
CMC-ADDITIONAL-ATTRIBUTES-SERVICE	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-CHARGES-CALCULATION-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-FC-AI-ML-SERVICES	Yes (Common Core Schema)
CMC-ML-INDB-SERVICES	Yes (Common Core Schema)



Service Name	Schema Required
	•
CMC-NLP-DASHBOARD-WIDGET-SERVICES	Yes (Common Core Schema)
CMC-NLP-MAINTENANCE-SERVICES	Yes (Common Core Schema)
CMC-NLP-OPENNLP-SERVICES	Yes (Common Core Schema)
CMC-NLP-PIPELINE-SERVICES	Yes (Common Core Schema)
CMC-NLP-TEXT-EXTRACTION-SERVICES	Yes (Common Core Schema)
CMC-OBCBS-SERVICES	Yes (Common Core Schema)
CMC-OBRH-SERVICE	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-OPDS-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-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-SEQUENCEGENERATOR-SERVICES	Yes (Common Core Schema)
CMC-SLA-SERVICES	Yes (Common Core Schema)



# 3. Domain and Cluster Configuration

# 3.1 Common Core Domain Configuration

#### 3.1.1 Prerequisites

- 1. Machine should have Java JDK installed.
- Oracle Fusion Middleware has to be installed on the machine.
   Note: Before proceeding with below steps complete Oracle Banking Microservices Architecture 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.

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

#### 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, refer to **How to create and Cluster Configuration** section in ANNEXURE-1.

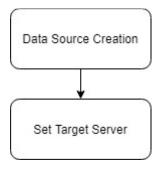


## 4. Data Sources Creation

### 4.1 Prerequisite

Database and application setup for Oracle Banking Microservices Architecture 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	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
PLATOUI	jdbc/PLATO_UI_CONFIG	Common Core Managed Server
PLATOSECURITY	jdbc/PLATO_SECURITY	Common Core Managed Server
<pre><product projection="" schema=""> (Required only for DB based ML use cases)</product></pre>	jdbc/ <product PROJECTION SCHEMA&gt;</product 	Common Core Managed Server

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

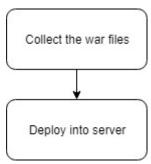
For creating data source in, refer to How to create Data sources section in ANNEXURE-1.



# 5. Deployments

# 5.1 **Prerequisite**

The database setup and data sources creation need 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.



# 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-	{Unzip OSDC Package}\cmc-account-	Common Core Managed Server
	{version}.war	services	
CMC-ADDITIONAL-	cmc-additional-	{Unzip OSDC	Common Core
ATTRIBUTES- SERVICE	attributes-services- {version}.war	Package}\cmc-additional- attributes-services	Managed Server
CMC-ADVICE-	cmc-advice-	{Unzip OSDC	Common Core
SERVICES	services- {version}.war	Package}\cmc-advice- services	Managed Server
CMC-BASE-	cmc-base-services-	{Unzip OSDC	Common Core
SERVICES	{version}.war	Package}\cmc-base- services	Managed Server
CMC-BATCH-	cmc-batch-	{Unzip OSDC	Common Core
SERVICES	services- {version}.war	Package}\cmc-batch- services	Managed Server
CMC-BRANCH-	cmc-branch-	{Unzip OSDC	Common Core
SERVICES	services- {version}.war	Package}\cmc-branch- services	Managed Server
CMC-	cmc-	{Unzip OSDC	Common Core
BUSINESSOVERRID	businessoverrides-	Package}\cmc-	Managed Server
ES-SERVICES	services- {version}.war	businessoverrides-services	
CMC-CHARGES-	cmc-charges-	{Unzip OSDC	Common Core
CALCULATION-	calculation-	Package}\cmc- charges-	Managed Server
SERVICES	services- {version}.war	calculation -services	



	<u> </u>		1
Application	Archive name	OSDC path	Targets
CMC- COREBANKING- ADAPTER-SERVICE	cmc-corebanking- adapter-service- {version}.war	{Unzip OSDC Package}\cmc- corebanking-adapter-	Common Core Managed Server
CMC-CURRENCY- SERVICES	cmc-currency- services-	service {Unzip OSDC Package}\cmc-currency-	Common Core Managed Server
CMC-CUSTOMER- SERVICES	{version}.war cmc-customer- services-	services {Unzip OSDC Package}\cmc-customer-	Common Core Managed Server
CMC- DATASEGMENT-	{version}.war cmc-datasegment- services-	services {Unzip OSDC Package}\cmc-	Common Core Managed Server
SERVICES CMC-EXTERNAL-	{version}.war cmc-external-chart-	datasegment-services {Unzip OSDC	Common Core
CHART-ACCOUNT CMC-EXTERNAL-	account- {version}.war cmc-external-	Package}\cmc-external- chart-account {Unzip OSDC	Managed Server  Common Core
SYSTEM-SERVICES CMC-EXTERNAL-	system-services- {version}.war cmc-external-	Package}\cmc-external- system-services {Unzip OSDC	Managed Server  Common Core
VIRTUAL- ACCOUNT- SERVICES	virtual-account- services- {version}.war	Package}\cmc-external- virtual-account-services	Managed Server
CMC-FACILITIES- SERVICE	cmc-facilities- service- {version}.war	{Unzip OSDC Package}\cmc-facilities- service	Common Core Managed Server
CMC-FC-AI-ML- SERVICES	cmc-fc-ai-ml- services- {version}.war	{Unzip OSDC Package}\cmc-fc-ai-ml- services	Common Core Managed Server
CMC-ML-INDB- SERVICES	cmc-ml-indb- services- {version}.war	{Unzip OSDC Package}\cmc-ml-indb- services	Common Core Managed Server
CMC-NLP- DASHBOARD- WIDGET-SERVICES	cmc-nlp- dashboard-widget- services- {version}.war	{Unzip OSDC Package}\cmc-nlp- dashboard-widget-services	Common Core Managed Server
CMC-NLP- MAINTENANCE- SERVICES	cmc-nlp- maintenance- services- {version}.war	{Unzip OSDC Package}\cmc-nlp- maintenance-services	Common Core Managed Server
CMC-NLP- OPENNLP- SERVICES	cmc-nlp-opennlp- services- {version}.war	{Unzip OSDC Package}\cmc-nlp-opennlp- services	Common Core Managed Server
CMC-NLP- PIPELINE- SERVICES	cmc-nlp-pipeline- services- {version}.war	{Unzip OSDC Package}\cmc-nlp-pipeline- services	Common Core Managed Server
CMC-NLP-TEXT- EXTRACTION- SERVICES	cmc-nlp-text- extraction-services- {version}.war	{Unzip OSDC Package}\cmc-nlp-text- extraction-services	Common Core Managed Server
CMC-OBCBS- SERVICES	cmc-obcbs- services- {version}.war	{Unzip OSDC Package}\cmc-obcbs- service	Common Core Managed Server
CMC-OBRH- SERVICES	cmc-obrh-services- {version}.war	{Unzip OSDC Package}\ cmc-obrh-services	Common Core Managed Server



Application	Archive name	OSDC path	Targets
CMC-REPORT-	cmc-report-service-	{Unzip OSDC	Common Core
SERVICE	{version}.war	Package}\cmc-report- service	Managed Server
CMC-RESOURCE-	cmc-resource-	{Unzip OSDC	Common Core
SEGMENT-	segment-	Package}\cmc-resource-	Managed Server
ORCHESTRATOR-	orchestrator-	segment-orchestrator-	
SERVICE	service-	service	
	{version}.war		
CMC-	cmc-screenclass-	{Unzip OSDC	Common Core
SCREENCLASS-	services-	Package}\cmc-screenclass-	Managed Server
SERVICES	{version}.war	services	
CMC-	cmc-settlements-	{Unzip OSDC	Common Core
SETTLEMENTS-	services-	Package}\cmc-settlements-	Managed Server
SERVICES	{version}.war	services	
CMC-	cmc-	{Unzip OSDC	Common Core
TRANSACTIONCON	transactioncontrolle	Package}\cmc-	Managed Server
TROLLER-	r-services-	transactioncontroller-	
SERVICES	{version}.war	services	
CMC-TXN-CODE-	cmc-txn-code-	{Unzip OSDC	Common Core
SERVICES	services-	Package}\cmc-txn-code-	Managed Server
	{version}.war	services	
CMC-	cmc-	{Unzip OSDC	Mid-Office
APPLICATIONCATE	applicationcategory	Package}\cmc-	Managed Server
GORY-SERVICES	-services-	applicationcategory-	
	{version}.war	services	
CMC-CHECKLIST-	cmc-checklist-	{Unzip OSDC	Mid-Office
SERVICES	services-	Package}\cmc-checklist-	Managed Server
21/2	{version}.war	services	
CMC-	cmc-	{Unzip OSDC	Mid-Office
CHECKLISTMANAG	checklistmanagem	Package}\cmc-	Managed Server
EMENT-SERVICES	ent-services-	checklistmanagement-	
ON O O ON ANATONITO	{version}.war	services	Mi L Offi
CMC-COMMENTS-	cmc-comments-	{Unzip OSDC	Mid-Office
SERVICES	services-	Package}\cmc-comments-	Managed Server
ON AC DOCUMENT	{version}.war	services	Mi L Offi
CMC-DOCUMENT-	cmc-document-	{Unzip OSDC	Mid-Office
SERVICES	services-	Package}\cmc-document-	Managed Server
CMC-	{version}.war	services	Mid-Office
DOCUMENTMANAG	cmc-	{Unzip OSDC	Managed Server
EMENT-SERVICES	documentmanage ment-services-	Package}\cmc- documentmanagement-	iviariageu Server
LIVILIVI - SLIVVICES	{version}.war	services	
CMC-KYCCHECK-	cmc-kyccheck-	{Unzip OSDC	Mid-Office
SERVICES	services-	Package}\cmc-kyccheck-	Managed Server
SLICVIOLO	{version}.war	services	Managed Server
CMC-	cmc-	{Unzip OSDC	Mid-Office
MAILNOTIFICATION	mailnotification-	Package}\cmc-	Managed Server
-SERVICES	services-	mailnotification-services	ivialiagea ecivei
	{version}.war		
CMC-PRIORITY-	cmc-priority-	{Unzip OSDC	Mid-Office
SERVICE	service-	Package}\cmc-priority-	Managed Server
JEI WIJE	{version}.war	service	Managod Gol Vol
CMC-	cmc-processcode-	{Unzip OSDC	Mid-Office
PROCESSCODE-	service-	Package}\cmc-	Managed Server
SERVICE	{version}.war	processcode-service	
0_1(V)OL	[ [ Torolonj.war	p. 5555555555 551 VIOC	I



Application	Archive name	OSDC path	Targets
CMC-	cmc-	{Unzip OSDC	
SEQUENCEGENER	sequencegenerator	Package}\cmc-	
ATOR-SERVICES	-services-	sequencegenerator-	
	{version}.war	services	
CMC-SLA-	cmc-sla-services-	{Unzip OSDC	
SERVICES	{version}.war	Package}\cmc-sla-services	
CMC-OPDS-	cmc-opds-services-	{Unzip OSDC	Common Core
SERVICES	{version}.war	Package}\cmc-opds-	Managed Server
		services	

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

# 5.3 Steps to Deploy as Application

To deploy application, refer to **How to deploy section** in ANNEXURE-1.

# 5.4 **Depreciated Services**

Deploy the common core service to clean up the deprecated service-related DB objects from common core / SMS / PLATO schemas.

Application	Archive name	OSDC path	Targets
CMC-SERVICE-	cmc-service-	{Unzip OSDC	Common Core
DEPRECATION-SVC	deprecation-svc	Package}\cmc-service-	Managed Server
	-{version}.war	deprecation-svc	

Below table give details of the deprecated services in Common Core application and undeploy the services one after other in the same given order as given below.

Application	Archive name	Targets
CMC-EARMARK-SERVICES	cmc-earmark-services- {version}.war	Common Core Managed Server
CMC-QUEUE-SERVICES	cmc-queue-services- {version}.war	Common Core Managed Server
CMC-SERVICE- DEPRECATION-SVC	cmc-service-deprecation- svc-{version}.war	Common Core Managed Server

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

# 5.5 Steps to undeploy the deprecated application

To undeploy the deprecated applications, please refer ANNEXURE-1. "How to undeploy Application" 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, refer to **How to restart** section in ANNEXURE-1.



# 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



### 8. Known Issues - Resolutions

#### 8.1 cmc-ml-indb-services

Troubleshooting deployment failure in cmc-ml-indb-services.war -

#### **Deployment Error –**

- org.flywaydb.core.api.FlywayException: Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database: 589007451 -> Resolved locally: -692687536: org.flywaydb.core.api.FlywayException:Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database: 589007451 -> Resolved locally: -692687536
- org.flywaydb.core.api.FlywayException: Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database:

   692687536-> Resolved locally: 589007451:org.flywaydb.core.api.FlywayException:Validate failed: Migration checksum mismatch for migration version 101.32.5.0.0.4.101032004.1.1 -> Applied to database: -> -692687536 Resolved locally: 589007451

#### Resolution -

- 1. Error 1 should get resolved after applying the war from latest patchset.
- Error 2 will result in case there have been manual modifications made in table
   "flyway\_schema\_history" i.e. checksum of script/file
   V101\_32\_5.0.0\_4\_101032004\_1\_1\_CMC\_TM\_ML\_ALGO\_REPO.sql has been manually
   changed/updated to -692687536 in flyway table. If so please delete all the entries in
   "flyway\_schema\_history" for script
   V101\_32\_5.0.0\_4\_101032004\_1\_1\_CMC\_TM\_ML\_ALGO\_REPO.sql then redeploy/re-run
   the latest cmc-ml-indb-services.war.

### 8.2 <u>cmc-branch-service</u>

Troubleshooting steps for failed cmc-branch-service-6.0.0:

For branch service the following steps will need to be executed for deploying the service over March patchset:

 Run the following scripts on the SMS schema: delete from "flyway\_schema\_history" where "version" in ('101.4.5.11.0.1.00051001006.10.1');

delete from SMS\_TM\_FUNC\_ACTIVITY\_DETAIL where ID in ('CMC\_FA\_BRANCH\_WORKHR\_GETALL','CMC\_BRANCH\_WORKHR\_GETID','CMC\_BRANCH\_WORKHR\_SAVE','CMC\_FA\_BRANCH\_TIME\_GETALL','CMC\_BRANCH\_WORKHR\_AUTH','CMC\_BRANCH\_WORKHR\_AUTH','CMC\_BRANCH\_WORKHR\_CLOSERECRD ','CMC\_BRANCH\_WORKHR\_DELETE','CMC\_BRANCH\_WORKHR\_GETHISTRY', 'CMC\_BRANCH\_WORKHR\_MODRECRD','CMC\_BRANCH\_WORKHR\_ROPNRECRD');

commit;

2. Start the cmc-branch-service-6.0.0 application in Weblogic.





#### **Common Core Services Installation Guide**

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