

MLEB Software Suites Mobile Corporate Banking Installation Guidelines (Version 0.1)

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## **Document Information**

Document Name : MLEB\_MCB\_Installation\_Guidelines\_v0.1

Document Code :

Document Description : This document is designed to help you to install MLEB MCB to WebLogic & Oracle

DB

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Document Category :

Date Created : 13<sup>th</sup> September 2019

Date Released : -

Document Version : Please refer to the file name or first page of the document.



# Document Revision History

Version #	W		Descriptions	
0.1			First version of document.	
0.2	Woon Kok Choon	19 Sept 2019	2. Include JVM Environment Setup - section 9.2	



# Document Release History

Release #	Release Date	References



## **Document Approval History**

Name	Designation	Date



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### 1. Overview

- 1. This document records the following information with the aim to provide a single point of reference and up to date information for the target audiences.
- 2. This MLEB MBK installation process consists of the following phases:
  - a.) MLEB DB script setup
  - b.) WebLogic share library setup
  - c.) MLEB properties setup
  - d.) WebLogic application environment setup
  - e.) MLEB application deployment



## 2. Target Audience

- 1. Development Team
- 2. System Integration / Implementation Team
- 3. Application support



## 3. References

No.	References	Details
1.	Weblogic	1. https://docs.oracle.com/en/
2.	Oracle DB	1. https://docs.oracle.com/en/
		Table 1 List of References



# 4. Terminology and Conventions

No.	Definitions	Description	
1.	MLEB	Mobility Lifestyle Ecosystem Backbone	
2.	SMECO	Silverlake Mobility Ecosystem	
3.	JRE	Java Runtime Environment	

**Table 2 List of Definitions** 



## 5. Abbreviations

1.

2.

**Table 3 List of Abbreviations** 



### 6. MLEB DB Script Setup

- 1. Putty to DB server
- 2. Login to sqlplus
- 3. Run the script file by entering command below:
- 4. @<sql script file>
- 5. Example @mleb\_script.sql

## 7. WebLogic Share Library Setup

- 1. The share library consist of jar file as listed below:
  - a. antlr-2.7.6.jar
  - b. cglib-2.2.jar
  - c. commons-collections-3.2.1.jar
  - d. dom4j-1.6.1.jar
  - e. hibernate-commons-annotations-3.2.0.Final.jar
  - f. hibernate-core-3.6.10.Final.jar
  - g. hibernate-entitymanager-3.6.10.Final.jar
  - h. hibernate-jpa-2.0-api-1.0.1.Final.jar
  - i. javassist-3.12.0.GA.jar
  - j. jta-1.1.jar
  - k. slf4j-api-1.7.2.jar
- 2. Before you begin, Silverlake will provide All the jar file in a folder called "lib-jpa".
- 3. FTP/Upload the lib-jpa folder to the WebLogic Application domain lib folder
- 4. Example path (\*after upload):



### 8. MLEB MCB Properties Setup

- 1. Silverlake will provide All the application properties in a folder called "properties"
- 2. FTP/Upload the properties folder to Application Server directory "/home/<user>/ocbc/apps/
- 3. Example path (\*after upload)

```
[oracle@uat-app-mleb ~]$ cd ocbc/apps/properties/
[oracle@uat-app-mleb properties]$ ls -l
total 12
-rw-r--r-- 1 oracle oinstall 320 Aug 29 15:45 ccmcb.properties
-rw-r--r-- 1 oracle oinstall 378 Aug 19 12:00 mcb.properties
-rw-r--r-- 1 oracle oinstall 1773 Apr 29 13:41 mleb.properties
[oracle@uat-app-mleb properties]$
```

If need to deploy ccmcb app to another WebLogic server, the ccmcb.properties required to move to another WebLogic server with same location.

- 4. Include System Properties setting in server start Arguments:
  - -Dapp.store.path=/home/oracle/ocbc/apps
  - -Dapp.log.path=/home/oracle/ocbc/logs

```
Arguments:

XX:+ScavengeBeforeFullGC -XX:+CMSScavengeBeforeRemark -
Dsun.net.inetaddr.ttl=60 -
Dapp.store.path=/home/oracle/ocbc/apps -
Dapp.log.path=/home/oracle/ocbc/logs/ServerCcws1 -
Dhb.dialect=org.hibernate.dialect.Oracle10gDialect -
Dweblogic.threadpool.MinPoolSize=5 -
```



## 9. WebLogic Application Environment Setup

#### 9.1 Configure WebLogic Domain environment

- Open WebLogic setDomainEnv.sh using putty
- 2. Example : vi <weblogic home>/user project/domain/<application>/bin/setDomainEnv.sh
- Add the command below: (replace the <user> to the owner of the WebLogic server)

export CLASSPATH=\$CLASSPATH:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/antlr-

- 2.7.6.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/cglib-
- 2.2.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/commons-collections-
- 3.2.1.jar:/app/oracle/middleware/user projects/domains/velomobile/lib/lib-jpa/dom4j-
- 1.6.1.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/hibernate-commons-annotations-
- 3.2.0.Final.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/hibernate-core-
- 3.6.10.Final.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/hibernate-entitymanager-
- 3.6.10.Final.jar:/app/oracle/middleware/user projects/domains/velomobile/lib/lib-jpa/hibernate-jpa-2.0-api-
- 1.0.1.Final.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/javassist-
- 3.12.0.GA.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/jta-
- 1.1.jar:/app/oracle/middleware/user\_projects/domains/velomobile/lib/lib-jpa/slf4j-api-1.7.2.jar

### 4. Example(\*after added the command):

```
#!/bin/sh

### WARNING: This file is created by the Configuration Wizard.

# Any changes to this script may be lost when adding extensions to this configuration.

# --- Start Functions ---

export CLASSPATH-$CLASSPATH:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-jpa/antlr-2.7.6.jar:/app/oracle/middleware/user_projects/domains/velomobile/lib/lib-
```

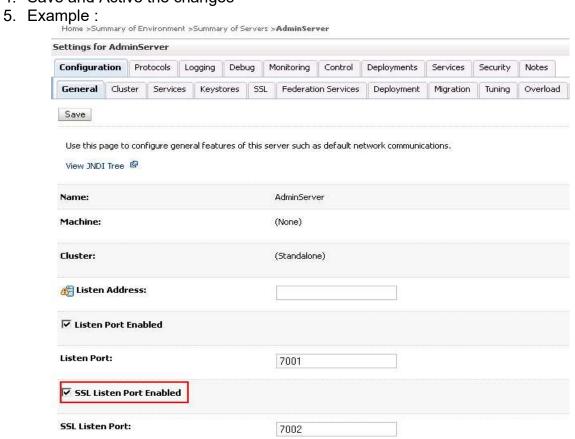
#### 9.2 JVM Configuration

- 1. Include **ccmcb** managed server JVM setting in server start Arguments:
  - -Xms1024m -Xmx2048m -XX:PermSize=512m -XX:MaxPermSize=1024m
- 2. Include **mcb** managed server JVM setting in server start Arguments:
  - -Xms2048m -Xmx4096m -XX:PermSize=512m -XX:MaxPermSize=1024m



### 9.3 Enable Secure HTTP port (HTTPS)

- 1. Login to WebLogic console
- 2. Go to the path > Environment > Servers > AdminServer
- 3. Check the SSL Listen Port Enabled
- 4. Save and Active the changes

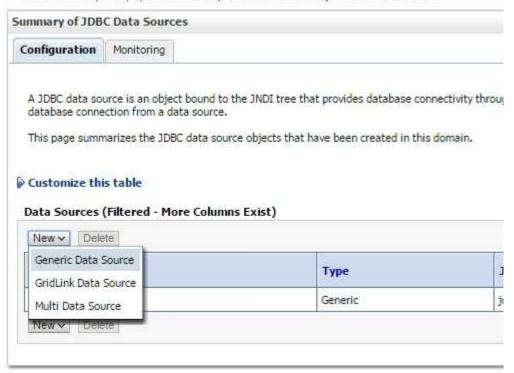


#### 9.4 Configure WebLogic Data Source

- 1. Login to WebLogic Console
- 2. Go to the path Service > Data Sources
- 3. Click New and Choose Generic Data Source

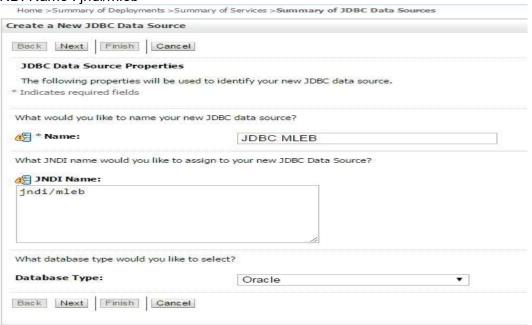


Home >Summary of Deployments >Summary of Services >Summary of JDBC Data Sources



4. Configure Name and JNDI NAME as below:

Name: JDBC MLEB JNDI Name: jndi/mleb



- 5. Click Next
- 6. Choose the Oracle's Driver(Thin XA) for Instance connections; Version: Any
- Click Next until the Connection Properties page
- 8. Fill in below:

Database Name : <oracle DB name> Host Name: <oracle hostname/IP>

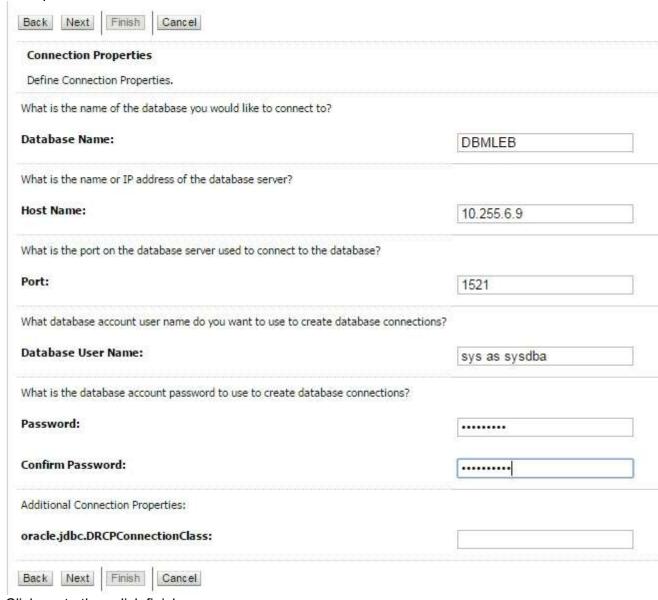
Port: <oracle DB port>



Database username: <DB username>

Password: <DB password>

Example:



- 9. Click next, then click finish.
- 10. Save and Active the changes.
- 11. Repeat above all the step to configure another data source Datasource details :

Name: JDBCSESSION
JNDI Name: JDBCSESSION
Database: SESSION\_OCBC

Data Sources (Filtered - More Columns Exist)

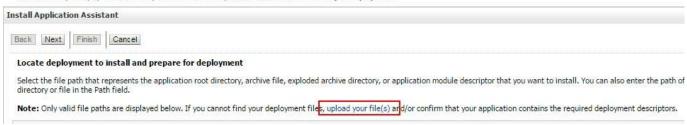
New > Delete Showing 1 to 4 of 4 Previous				Showing 1 to 4 of 4 Previous   Next
	Name 🙈	Туре	JNDI Name	Targets
	JDBCSESSION	Generic	JDBCSESSION	ServerMleb, ServerCcws
	MLEB JDBC	Generic	jdbc/mleb	ServerMleb, ServerCcws



### 12. Targets should point to ccmcb and mcb managed server

### 10. MLEB Application Deployment

- 1. Login to WebLogic console
- 2. MLEB Application consist of ccmcbs.war,mcb.war,mleb core.war
- 3. Do repeat the step below for all the application deployment.
- 4. Click on Deployments
- 5. To install new app, click install button
- 6. To update existing app, select/check the application and click update
- 7. Choose upload your file(s)



- 8. Click upload Deployment Archive, and select MLEB application war/ear file and click next to upload.
- 9. Click next or finish button to complete the deployment step.
- 10. Click save and active the changes.
- 11. If the deployed application state is not active, select/check the application and click on start and choose servicing all request.