

MLEB Software Suites Mobile Corporate Banking Installation Guidelines (Version 0.3)

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DB

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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

No. Abbreviations Description	
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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
- Example path (*after upload):

```
[administrator@UAT-MBANKING-APP lib-jpa] pwd

/app/oracle/middleware/user_projects/domains/mleb/lib/lib-jpa
[administrator@UAT-MBANKING-APP lib-jpa] ls -1

cotal 5896

-rwxrwxr-x 1 administrator administrator 278682 Dec 2 2015 cglib-2.2.jar

-rwxrwxr-x 1 administrator administrator 575389 Jul 18 2009 commons-collections-3.2.1.jar

-rwxrwxr-x 1 administrator administrator 313898 Nov 13 2014 dom4j-1.6.1.jar

-rwxrwxr-x 1 administrator administrator 71283 Dec 2 2015 hibernate-commons-annotations-3.2.0.Final.jar

-rwxrwxr-x 1 administrator administrator 3123360 Jan 20 2016 hibernate-core-3.6.10.Final.jar

-rwxrwxr-x 1 administrator administrator 426671 Jan 20 2016 hibernate-entitymanager-3.6.10.Final.jar

-rwxrwxr-x 1 administrator administrator 102661 Dec 2 2015 hibernate-pipa-2.0-api-1.0.1.Final.jar

-rwxrwxr-x 1 administrator administrator 633312 Dec 2 2015 javassist-3.12.0.GA.jar

-rwxrwxr-x 1 administrator administrator 15071 Dec 2 2015 jta-1.1.jar

-rwxrwxr-x 1 administrator administrator 26083 Jun 30 2014 slf4j-api-1.7.2.jar
```



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
- Example : vi <weblogic_home>/user_project/domain/<application>/bin/setDomainEnv.sh
- 3. 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

Example(*after added the command):

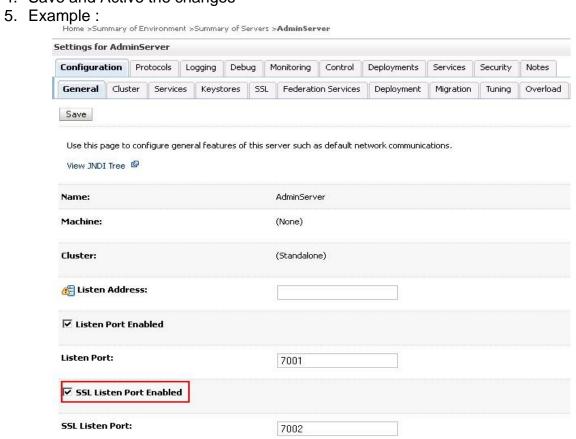
9.2 JVM Configuration

- 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

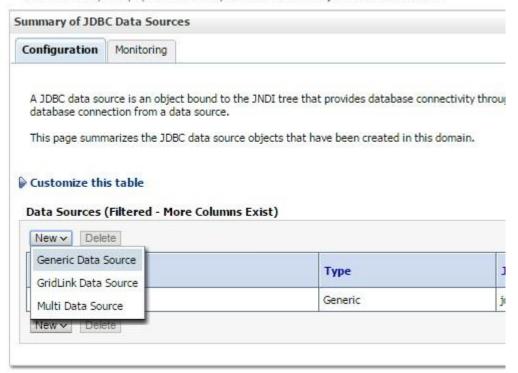


9.4 Configure WebLogic Data Source

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

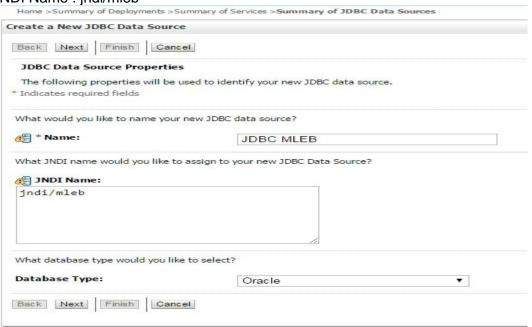


Home >Summary of Deployments >Summary of Services >Summary of JDBC Data Sources



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>

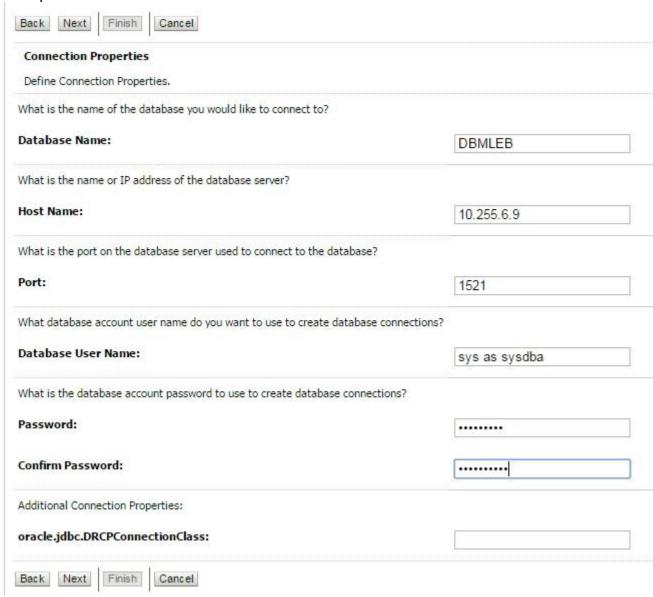
Port: <oracle DB port>



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)

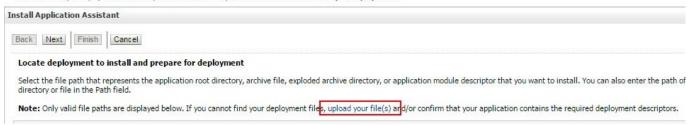
N	New Delete Showing 1 to 4 of 4 Previous			
	Name 🙈	Туре	JNDI Name	Targets
	JDBCSESSION	Generic	JDBCSESSION	ServerMleb, ServerCcws
	MLEB JDBC	Generic	jdbc/mleb	ServerMleb, ServerCcws



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.



11. PNS Setup

11.1 PNS SQL Script

Run the following script into existing MLEB PNS schema.

-- To avoid duplicate run

DELETE FROM MLEB PNS.MLEB PNS APPS WHERE APP ID='ocbcvelo';

-- Insert pns record for mcb

INSERT INTO MLEB_PNS.MLEB_PNS_APPS (APP_ID, ANDROID_API_KEY, ANDROID_MSG_TEMPLATE, APPLE_CERT, APPLE_IPAD_CERT, APPLE_IPAD_PASS, APPLE_PASS, STATUS, APP_PASS, APPLE_URL) SELECT 'ocbcvelo', '<android_api_key>', 'template', '<apple_cert_path>', '<apple_cert_path>', '<apple_cert_password>', 'ACTIVE', APP_PASS, APPLE_URL FROM MLEB_PNS.MLEB_PNS_APPS_WHERE_APP_ID='ocbc';

Parameters:

android_api_key = Production android API key.
apple_cert_path = Apple certification path in the server.
apple cert password = Apple certification password

11.2 Apple Certification

The apple certification have to load to all PNS server where the war is running.

The path of the certification have to in sync with apple cert path

11.2 PNS Web Service

IP: <Same as existing OneMobile MLEB PNS endpoint for production>

Port: <Same as existing OneMobile MLEB PNS endpoint for production>

AppID: ocbcvelo

AppPass: <Same as existing OneMobile MLEB PNS app pass>

Channel: P

MessageType: VELOMOBILEPUSH