

Resources to be created  
Oracle FLEXCUBE Universal Banking  
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# 1. Resources to be created on Application Server

## 1.1 Introduction

This chapter explains list of resources to be created for FCUBS application.

## 1.2 Resource Types

Configure the application server for Oracle FLEXCUBE Application. Ensure that the following resources are available before deployment:

- Data source
- JMS resources
- Debug paths for host and branch



Note the following:

In case of Multi Entity, all data sources must be created separately for each entity. The JNDI name will be differentiated by suffixing entity name.

Examples: If Data source is 'jdbc/fcjDevDs' then jdbc/fcjDevDs+entity name will be lookup the application. (jdbc/fcjDevDs+entity name) jndi should be presented in application server

## 1.3 Resource prerequisites for Plug-ins

Resource prerequisites for different plug-ins are explained below. In case you wish to include a plug-in, ensure that the corresponding resources are created.

### 1.3.1 FLEXCUBE UBS

FCUBS needs below resources before deployment. Create the following queues and connection factories in the application server.

#### **JMS Connection Factories**

| QCF Label              | QCF             |
|------------------------|-----------------|
| Notify Destination QCF | NotifyDestQCF   |
| Deferred QCF           | DefferedDestQCF |
| Notify QCF             | NOTIFY_MDB_QCF  |
| Incoming QCF           | EmsQcf          |
| BIP QCF                | BIPQCF          |
| GI Upload QCF          | GI_UPLOAD_QCF   |
| <Internally Referred>  | ELMDBQCF        |
| <Internally Referred>  | EL_NOTIFY_QCF   |

#### **Queues**

Create the following queues:

| QUEUE Label                      | QUEUE                         |
|----------------------------------|-------------------------------|
| Notify Destination Queue Name    | NOTIFY_DEST_QUEUE             |
| Deferred Queue Name              | DEFERRED_DEST_QUEUE           |
| Notify Queue Name                | NOTIFY_QUEUE                  |
| Dead Letter Queue name           | NOTIFY_QUEUE_DLQ              |
| Incoming BackupQueue name        | EMS_QUEUE_BACK                |
| Incoming Dead Letter Queue name  | EMS_QUEUE_DLQ                 |
| Incoming Queue Name              | EMS_INQUEUE                   |
| Outgoing Queue Name              | EMS_OUTQUEUE                  |
| SFMS Incoming Queue              | SFMS_INQUEUE                  |
| RTGS Incoming Queue              | RTGS_INQUEUE                  |
| BIP Queue Name                   | INTERNAL_BIPREPORT_QUEUE      |
| BIP Dead Letter Queue Name       | INTERNAL_BIP_QUEUE_DLQ        |
| BIPadvice Queue Name             | INTERNAL_BIPADVREPORT_QUEUE   |
| BIPadvice Dead Letter Queue Name | INTERNAL_BIP_ADVICE_QUEUE_DLQ |
| GI Upload Queue Name             | INTERNAL_GI_UPLOAD_QUEUE      |
| GI Upload Dead Letter Queue Name | INTERNAL_GI_UPLOAD_DLQ        |
| <Internally Referred>            | ELMDB_REQ_Q                   |
| <Internally Referred>            | ELMDB_RES_Q                   |
| <Internally Referred>            | ELMDB_DLQ                     |
| <Internally Referred>            | EL_NOTIFY_REQ_Q               |
| <Internally Referred>            | EL_NOTIFY_RES_Q               |
| <Internally Referred>            | EL_NOTIFY_DLQ                 |

#### Data source

| Datasource Name       | Datasource Label     | Type   | Default Value       |
|-----------------------|----------------------|--------|---------------------|
| INIT_DATASOURCE       | Data Source          | NON-XA | jdbc/fcjdevDS       |
| BRANCH_CENTRALIZED_DS | Data Source          | XA     | jdbc/fcjDevXADS     |
| SCHEDULER_DS          | Scheduler Datasource | XA     | jdbc/fcjSchedulerDS |



#### Note the following:

You need to create two more data sources for Oracle FCUBS

- **Scheduler** : You need to create XA data source for Oracle FCUBS with the JNDI name '\_XA' for scheduler. For example, if the Oracle FCUBS HOST Non XA data source JNDI name is 'jdbc/fcjdevDS', then you need to create another data source for FCUBS with the JNDI name 'jdbc/fcjdevDS\_XA'.
- **Batch Process**: You need to create data source for Oracle FCUBS with the JNDI name '\_ASYNC' for batch process. For example, if the Oracle FCUBS HOST Non XA data source JNDI name is 'jdbc/fcjdevDS', then you need to create another data source for FCUBS with the JNDI name 'jdbc/fcjdevDS\_ASYNC'.

### 1.3.2 Scheduler

If scheduler is included in the property file, create the following queues and connection factories in the application server.

#### Connection Factories

Create the following connection factories:

| QCF Label              | QCF             |
|------------------------|-----------------|
| Notify Destination QCF | NotifyDestQCF   |
| Deferred QCF           | DefferedDestQCF |
| Notify QCF             | NOTIFY_MDB_QCF  |
| Incoming QCF           | EmsQcf          |
| BIP QCF                | BIPQCF          |
| GI Upload QCF          | GI_UPLOAD_QCF   |

**All these must be XA enabled.**

#### Queues

Create the following queues:

| QUEUE Label                      | QUEUE                         |
|----------------------------------|-------------------------------|
| Notify Destination Queue Name    | NOTIFY_DEST_QUEUE             |
| Deferred Queue Name              | DEFERRED_DEST_QUEUE           |
| Notify Queue Name                | NOTIFY_QUEUE                  |
| Dead Letter Queue name           | NOTIFY_QUEUE_DLQ              |
| Incoming BackupQueue name        | EMS_QUEUE_BACK                |
| Incoming Dead Letter Queue name  | EMS_QUEUE_DLQ                 |
| Incoming Queue Name              | EMS_INQUEUE                   |
| Outgoing Queue Name              | EMS_OUTQUEUE                  |
| SFMS Incoming Queue              | SFMS_INQUEUE                  |
| RTGS Incoming Queue              | RTGS_INQUEUE                  |
| BIP Queue Name                   | INTERNAL_BIPREPORT_QUEUE      |
| BIP Dead Letter Queue Name       | INTERNAL_BIP_QUEUE_DLQ        |
| BIPadvice Queue Name             | INTERNAL_BIPADVREPORT_QUEUE   |
| BIPadvice Dead Letter Queue Name | INTERNAL_BIP_ADVICE_QUEUE_DLQ |
| GI Upload Queue Name             | INTERNAL_GI_UPLOAD_QUEUE      |
| GI Upload Dead Letter Queue Name | INTERNAL_GI_UPLOAD_DLQ        |

#### Topic Connection Factory

- NotifyDestTCF

#### Topic

- NOTIFY\_DEST\_TOPIC

To configure scheduler and EMS with MQ series, follow the steps given below.

- Create queues in MQ Series
- Create binding file
- Copy the MQ series JAR files to Oracle WebLogic domain library folder

### Datasources

| Datasource Name | Datasource Label     | Type   | Default Value       |
|-----------------|----------------------|--------|---------------------|
| INIT_DATASOURCE | Data Source          | NON-XA | jdbc/fcjdevDS       |
| SCHEDULER_DS    | Scheduler Datasource | XA     | jdbc/fcjSchedulerDS |



Note the following

- You need to create another XA data source for Oracle FCUBS with the JNDI name ‘\_XA’ for Scheduler. For example, if the Oracle FCUBS HOST Non XA data source JNDI name is ‘jdbc/fcjdevDS’, then you need to create another data source for FCUBS with the JNDI name ‘jdbc/fcjdevDS\_XA’.

### Security Provider Libraries

If you wish to include signing process for SFMS messages, you need to set the following library.

| File Name                                | Download Location   | Instructions  |
|--|---|---|
| bcprov-jdk(Latest Qualified Version).jar | <a href="http://www.bouncycastle.org/latest_releases.html">http://www.bouncycastle.org/latest_releases.html</a> | Copy the file ‘bcprov-jdk(Latest Qualified Version).jar’ to the directory ‘{WL_JAVA_HOME}/jre/lib/ext’<br><br>Here, ‘WL_JAVA_HOME’ is the Java root directory from which WebLogic server is running.<br><br>Restart Oracle WebLogic server. |

For details on latest version of the software qualified with Oracle FLEXCUBE, refer to the release certificate.

### 1.3.3 Gateway

If scheduler is included in the property file, create the following queues and connection factories in the application server.

#### Connection Factories

Create the following connection factories:

| QCF Label | QCF    |
|-----------|--------|
| MDB QCF   | MDBQCF |

**All these must be XA enabled.**

## Queues

Create the following queues:

| QUEUE Label        | QUEUE              |
|--------------------|--------------------|
| MDB Request Queue  | MDB_QUEUE          |
| MDB Response Queue | MDB_QUEUE_RESPONSE |
| MDB DL Queue       | MDB_QUEUE_DLQ      |

## Datasource

| Datasource Name               | Datasource Label | Type                             | Default Value   |
|-------------------------------|------------------|----------------------------------|-----------------|
| FCUBS_MSG_SCHEMA_CON_POOLNAME | DataSource       | XA for MDB and NON-XA for others | FLEXTTEST.WORLD |
| FCUBS_SMS_POOL_NAME           | DataSource       | NON-XA                           | jdbc/fcjsmsDS   |

### 1.3.1 OFTW

If OFTW (Oracle Flexcube Testing Workbench) is included in the property file, create the following queues and connection factories in the application server.

#### Connection Factories

Create the following connection factories:

| QCF Label   | QCF        |
|-------------|------------|
| RTTDest QCF | RTTDestQCF |

This must be XA enabled.

## Queues

Create the following queues:

| QUEUE Label         | QUEUE               |
|---------------------|---------------------|
| RTT Recording Queue | RTT_RECORDING_QUEUE |

## Datasource

| Datasource Name | Datasource Label | Type | Default Value    |
|-----------------|------------------|------|------------------|
| RECORDING_JNDI  | OFTW Data Source | XA   | jdbc/ OFTWPref   |
| REPLAY_JNDI     | OFTW Data Source | XA   | jdbc/ OFTWLogger |

RECORDING\_JNDI: Source Schema

REPLAY\_JNDI: Schema to store recorded test cases. Recommended to use target schema.

### 1.3.2 **ELCM**

If ELCM application has to be deployed, create the following queues and connection factories in the application server.

#### **JMS Connection Factories**

Create the following connection factories:

| <b>QCF Label</b>       | <b>QCF</b>      |
|------------------------|-----------------|
| EL gateway Notify QCF  | EL_NOTIFY_QCF   |
| EL Gateway MDB QCF     | ELMDBQCF        |
| Notify Destination QCF | NotifyDestQCF   |
| Deferred QCF           | DefferedDestQCF |
| Notify QCF             | NOTIFY_MDB_QCF  |
| Incoming QCF           | EmsQcf          |
| BIP QCF                | BIPQCF          |
| GI Upload QCF          | GI_UPLOAD_QCF   |

#### **JMS Queues**

Create the following queues:

| <b>QUEUE Label</b>                      | <b>QUEUE</b>                  |
|---|-------------------------------|
| EL gateway Notify Request Queue Name    | EL_NOTIFY_REQ_Q               |
| EL gateway Notify Response Queue Name   | EL_NOTIFY_RES_Q               |
| EL gateway Notify DeadLetter Queue Name | EL_NOTIFY_DLQ                 |
| EL Gateway MDB Request Queue Name       | ELMDB_REQ_Q                   |
| EL Gateway MDB Response Queue Name      | ELMDB_RES_Q                   |
| EL Gateway MDB DeadLetter Queue Name    | ELMDB_DLQ                     |
| Notify Destination Queue Name           | NOTIFY_DEST_QUEUE             |
| Deferred Queue Name                     | DEFERRED_DEST_QUEUE           |
| Notify Queue Name                       | NOTIFY_QUEUE                  |
| Dead Letter Queue name                  | NOTIFY_QUEUE_DLQ              |
| Incoming BackupQueue name               | EMS_QUEUE_BACK                |
| Incoming Dead Letter Queue name         | EMS_QUEUE_DLQ                 |
| Incoming Queue Name                     | EMS_INQUEUE                   |
| Outgoing Queue Name                     | EMS_OUTQUEUE                  |
| SFMS Incoming Queue                     | SFMS_INQUEUE                  |
| RTGS Incoming Queue                     | RTGS_INQUEUE                  |
| BIP Queue Name                          | INTERNAL_BIPREPORT_QUEUE      |
| BIP Dead Letter Queue Name              | INTERNAL_BIP_QUEUE_DLQ        |
| BIPadvice Queue Name                    | INTERNAL_BIPADVREPORT_QUEUE   |
| BIPadvice Dead Letter Queue Name        | INTERNAL_BIP_ADVICE_QUEUE_DLQ |
| GI Upload Queue Name                    | INTERNAL_GI_UPLOAD_QUEUE      |



|                                  |                        |
|----------------------------------|------------------------|
| GI Upload Dead Letter Queue Name | INTERNAL_GI_UPLOAD_DLQ |
|----------------------------------|------------------------|

For ELCM, We need to create the following data sources for JDBC resources:

| Datasource Name    | Datasource Label     | Type   | Default Value       |
|--------------------|----------------------|--------|---------------------|
| INIT_DATASOURCE    | Data Source          | NON-XA | jdbc/fcjdevDS       |
| EL_INIT_DATASOURCE | Scheduler DataSource | NON-XA | jdbc/fcjSchedulerDS |

### 1.3.3 FGL

If FGL application has to be deployed, create the following queues and connection factories in the application server.

#### JMS Connection Factories

Create the following connection factories:

| QCF Label              | QCF             |
|------------------------|-----------------|
| Notify Destination QCF | NotifyDestQCF   |
| Deferred QCF           | DefferedDestQCF |
| Notify QCF             | NOTIFY_MDB_QCF  |
| Incoming QCF           | EmsQcf          |
| BIP QCF                | BIPQCF          |
| GI Upload QCF          | GI_UPLOAD_QCF   |

#### JMS Queues

Create the following queues:

| QUEUE Label                      | QUEUE                         |
|----------------------------------|-------------------------------|
| Notify Destination Queue Name    | NOTIFY_DEST_QUEUE             |
| Deferred Queue Name              | DEFERRED_DEST_QUEUE           |
| Notify Queue Name                | NOTIFY_QUEUE                  |
| Dead Letter Queue name           | NOTIFY_QUEUE_DLQ              |
| Incoming BackupQueue name        | EMS_QUEUE_BACK                |
| Incoming Dead Letter Queue name  | EMS_QUEUE_DLQ                 |
| Incoming Queue Name              | EMS_INQUEUE                   |
| Outgoing Queue Name              | EMS_OUTQUEUE                  |
| SFMS Incoming Queue              | SFMS_INQUEUE                  |
| RTGS Incoming Queue              | RTGS_INQUEUE                  |
| BIP Queue Name                   | INTERNAL_BIPREPORT_QUEUE      |
| BIP Dead Letter Queue Name       | INTERNAL_BIP_QUEUE_DLQ        |
| BIPadvice Queue Name             | INTERNAL_BIPADVREPORT_QUEUE   |
| BIPadvice Dead Letter Queue Name | INTERNAL_BIP_ADVICE_QUEUE_DLQ |
| GI Upload Queue Name             | INTERNAL_GI_UPLOAD_QUEUE      |
| GI Upload Dead Letter Queue Name | INTERNAL_GI_UPLOAD_DLQ        |

For FGL, We need to create the following data sources for JDBC resources:

**Data Source:**

| Datasource Name | Datasource Label     | Type   | Default Value       |
|-----------------|----------------------|--------|---------------------|
| INIT_DATASOURCE | Data Source          | NON-XA | jdbc/fcjdevDS       |
| SCHEDULER_DS    | Scheduler Datasource | XA     | jdbc/fcjSchedulerDS |

### 1.3.4 **REST API services**

The following Datasource has to be created for REST API Service Application :

**Data Source:**

| Datasource Name | Datasource Label | Type | Default Value    |
|-----------------|------------------|------|------------------|
| INIT_DATASOURCE | Data Source      | XA   | jdbc/fcliteAPIDS |

### 1.3.5 **OBCL**

If OBCL application has to be deployed, create the following queues and connection factories in the application server.

For OBCL, We need to create the following data sources for JDBC resources:

| Datasource Name | Datasource Label     | Type   | Default Value       |
|-----------------|----------------------|--------|---------------------|
| INIT_DATASOURCE | Data Source          | NON-XA | jdbc/fcjdevDS       |
| SMS_DATASOURCE  | Data Source          | NON-XA | jdbc/fcjSMSDS       |
| SCHEDULER_DS    | Scheduler DataSource | NON-XA | jdbc/fcjSchedulerDS |



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