

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 | http://www.bouncycastle.org/latest_releases.html | Copy the file ‘ bcprov-jdk(Latest Qualified Version).jar ’ to the directory ‘ {WL_JAVA_HOME}/jre/lib/ext ’ Here, ‘WL_JAVA_HOME’ is the Java root directory from which WebLogic server is running. 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 | FLEXTEST.WORLD |

1.3.4 **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:

| QCF Label | QCF |
|------------------------|---------------|
| 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:

| QUEUE Label | QUEUE |
|---|-------------------------------|
| 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 |

1.3.5 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 |

1.3.6 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 |



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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/

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