Setting up Property File

Oracle FLEXCUBE Enterprise Limits and Collateral Management

Version 12.0.0.0.0

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ORACLE

FINANCIAL SERVICES

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1. Setting up Property File

1.1 Introduction

This document explains the method to create and modify property files for Oracle FLEXCUBE Applications.

1.2 Prerequisites for ELCM

Based on the Application and required plug-ins, you will require various components explained in the sections below.

1.2.1 Prerequisites for ELCM Application

Data Sources for JDBC Resources

You need to create the following data sources for JDBC resources:

Data Source	Example
Non XA data source for Oracle FLEXCUBE UBS Application	jdbc/fcjdevDS
Non XA data source in case ELCM is included as Hybrid	jdbc/fcjdevDSELCM

The prerequisites required for various plug-ins are explained under the following headings.

1.2.2 Prerequisites for Scheduler Plug-in

In case you are going to include scheduler in your property file, make sure that the following queues and connection factories are created in the application server you are going to use.

Data Sources for JDBC Resource

If you need to include Scheduler plug-in in the Application, you need to create the following data sources:

Data Source	Example
XA data source	jdbc/fcjSchedulerDS
XA data source	The name of this data source should be in the following format: 'Name of the data source created for Oracle FLEXCUBE UBS_XA' If you take the above example of data source for Oracle FLEXCUBE UBS, the data source name will be 'jdbc/fcjdevDS_XA'.

JMS Resources

You need the following FCUBS notification JMS resources:

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Resource	Example
XA enabled connection factory	(ApplicationName)/NOTIFY_MDB_QCF
XA enabled connection factory	(ApplicationName)/NotifyDestQCF
XA enabled connection factory	(ApplicationName)/DefferedDestQCF
Queue name	(ApplicationName)/NOTIFY_QUEUE
Queue name	(ApplicationName)/NOTIFY_DEST_QUEUE
Queue name	(ApplicationName)/NOTIFY_QUEUE_DLQ
Queue name	(ApplicationName)/DEFFERED_DEST_QUEUE

You need the following EMS JMS resources:

Resource	Example
XA enabled connection factory	(ApplicationName)/EmsQcf
Queue name	(ApplicationName)/EMS_INQUEUE
Queue name	(ApplicationName)/EMS_OUTQUEUE
Queue name	(ApplicationName)/EMS_EXTQUEUE
Queue name	(ApplicationName)/EMS_QUEUE_DLQ

You need the following SFMS JMS resources:

Resource	Example
XA enabled connection factory	(ApplicationName)/ SFMSQCF
Queue name	(ApplicationName)/SFMS_INQUEUE

You need the following RTGS JMS resources:

Resource	Example
XA enabled connection factory	(ApplicationName)/ RTGSQCF
Queue name	(ApplicationName)/RTGS_INQUEUE

You need the following ELCM notification JMS resources:

Resource	Example
XA enabled connection factory	(ApplicationName)/EL_NOTIFY_QCF

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Resource	Example
Queue name	(ApplicationName)/EL_NOTIFY_REQ_Q
Queue name	(ApplicationName)/EL_NOTIFY_RES_Q
Queue name	(ApplicationName)/EL_NOTIFY_DLQ

You need the following ELCM Gateway MDB JMS resources:

Resource	Example
XA enabled connection factory	(ApplicationName)/ELMDBQCF
Queue name	(ApplicationName)/ELMDB _REQ_Q
Queue name	(ApplicationName)/ELMDB_RES_Q
Queue name	(ApplicationName)/ELMDB_DLQ

For details on creation of necessary resources, refer to the chapter 'Resource_Creation_WL.

The '(ApplicationName)' is not mandatory in all the cases. If the environment has only one application with scheduler, you may create the JMS resources with or without 'ApplicationName'.

E.g.: NOTIFY_MDB_QCF

However, if the environment has more than one application with scheduler, the JMS resource names must contain the 'ApplicationName' of the respective application.

E.g.: The environment has two applications, viz. FCJ1 and FCJ2. In that case, you need to create two sets of JMS resources as follows:

- Set of JMS resources with the 'ApplicationName' FCJ1 - FCJ1/NOTIFY_MDB_QCF
- Set of JMS resources with the 'ApplicationName' FCJ2 - FCJ2/NOTIFY_MDB_QCF

1.2.3 Prerequisites for BIP and BIP Advice Reports

If you need to include scheduler plug-in in the application, you need to create the following data sources:

Resource	Example
XA enabled connection factory	(ApplicationName)/BIPQCF
Queue name	(ApplicationName)/INTERNAL_BIPREPORT_QUEUE
Queue name	(ApplicationName)/INTERNAL_BIP_QUEUE_DLQ
Queue name	(ApplicationName)/INTERNAL_BIPADVREPORT_QUEUE
Queue name	(ApplicationNAme)/INTERNAL_BIP_ADVICE_QUEUE_DLQ

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# 2. Creating Property File for ELCM Application

2.1 Introduction

This chapter explains the methods to create property files for ELCM Application. This also contains the properties for various plug-ins.

2.2 Creating Property File

To create property file for Oracle ELCM, follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Banking Solution Installer.
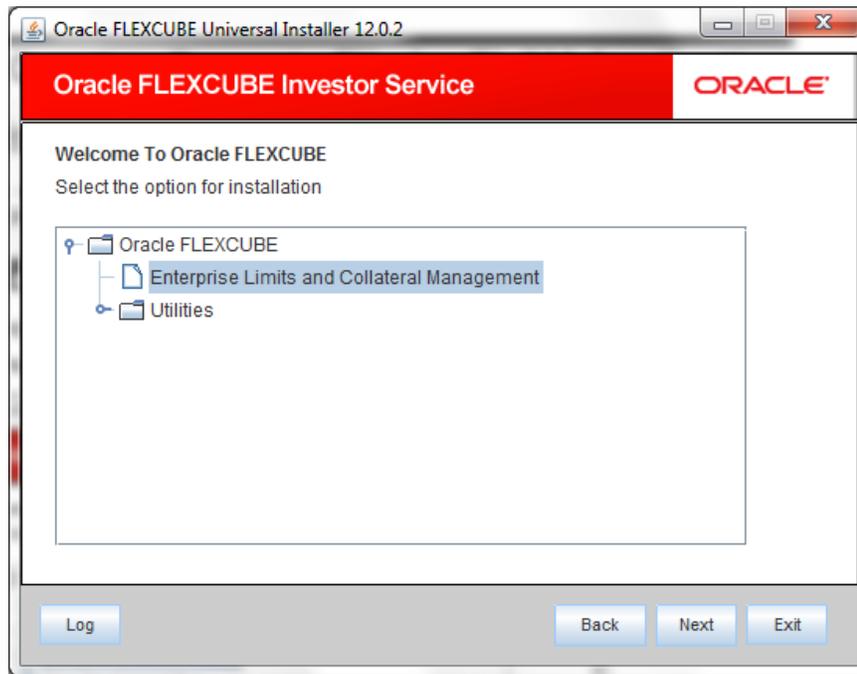
2. Choose 'Enterprise Limits & Collateral'. Click 'Next'.

The following screen is displayed:
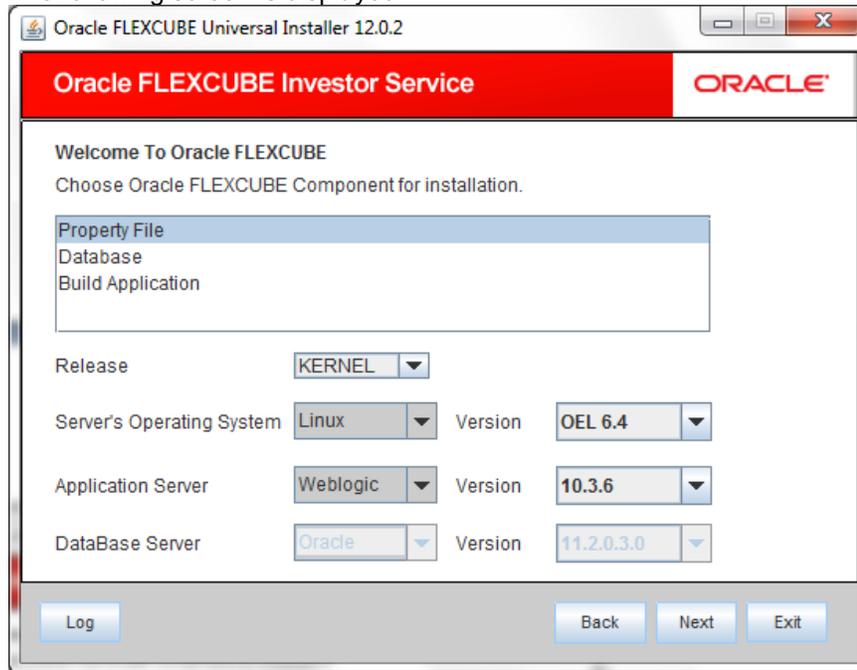
3. Choose the option 'Property File'.

4. Specify the following details:

Operating System and Version

Specify the operating system in which you are creating the property file. Choose the appropriate one from the drop-down list. You also need to specify the version of the selected operating system.

Application Server and Version

Specify the application server in which you are creating the property file. Choose the appropriate one from the drop-down list. You also need to specify the version of the selected application server.

Release:

Specify the release in which you are creating the property file.Choose the appropriate one from the drop-down list.The list has two values-KERNEL and VN Cluster

5. Once you have specified the details, click 'Next' to continue. The following screen is displayed.

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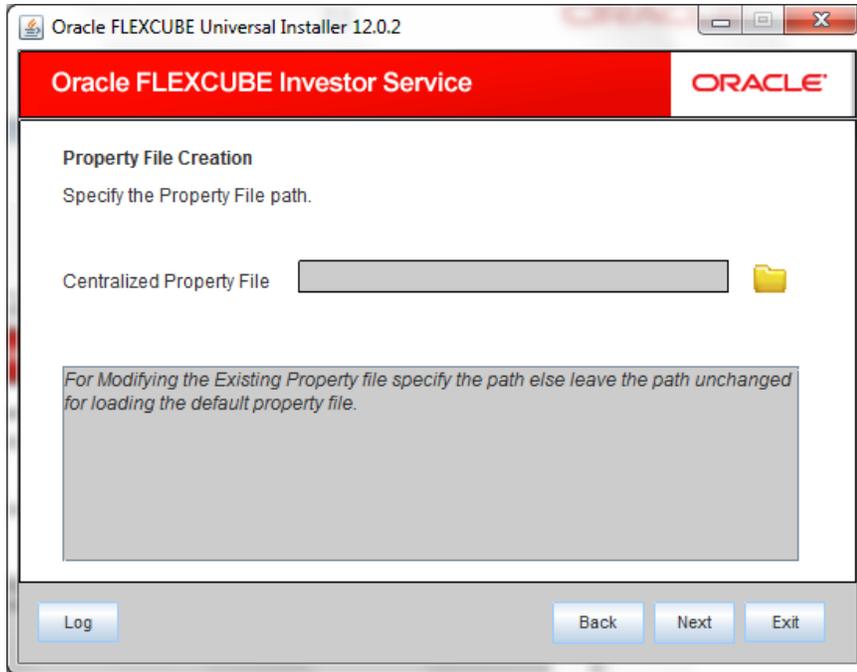
6. Specify the following details:

Centralized Property File

The property file needs to be built before the EAR file. If you are creating a new property file, leave the field blank. If you wish to modify an existing property file, you can manually specify the location of the property file.

2.2.1 Setting ELCM Plug-ins

This section describes the process of setting plug-ins.

1. You can select the plug-ins from the following screen.
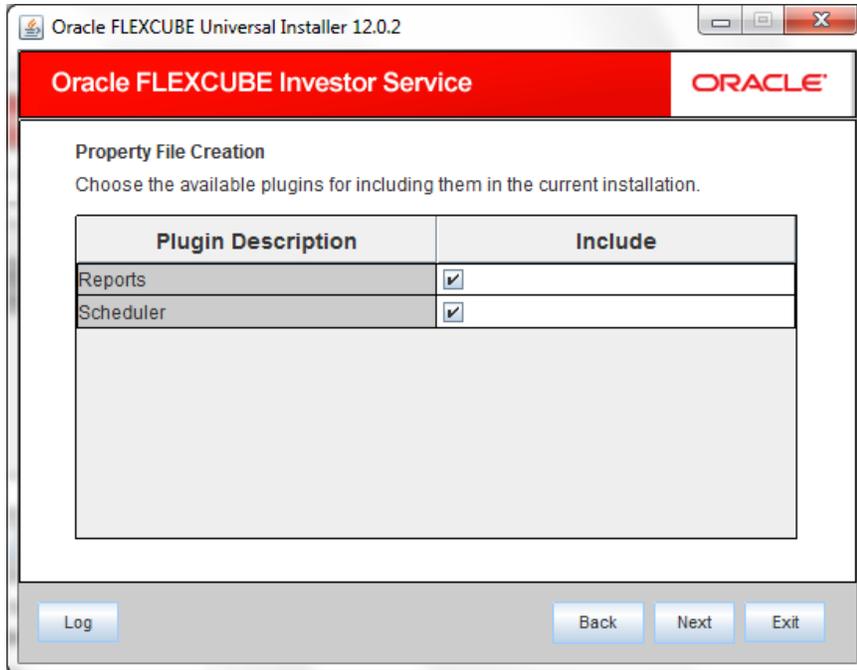
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2. You need to select the plug-ins to be included in the installation. Check the box against the required plug-ins. The following plug-ins are available for oracle ELCM:

- Reports
- Scheduler

3. Once you have selected the plug-ins, click 'Next'. You will be navigated to the 'Common Properties' screen.

2.2.2 <u>Setting Common Properties</u>

This section describes the process of setting common properties of Oracle ELCM.

The installer displays the 'Common Properties' screen.
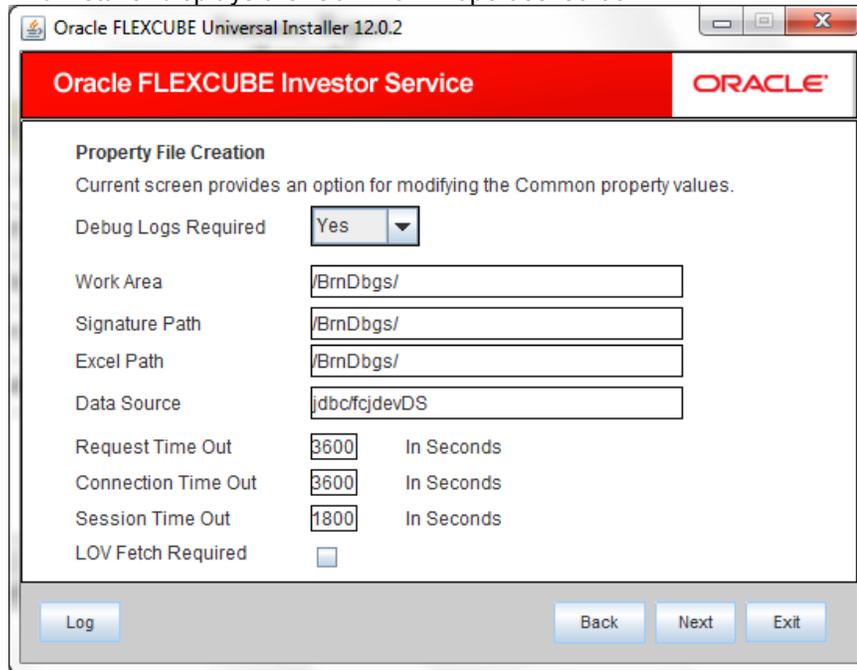
4. The following are the common properties required for FGL Application:

Debug Logs Required

If you require debug option, select 'Yes' from the drop-down list. If you do not require debug option, select 'No'.

Signature Path

Specify the location at which the signature images will be placed.

Excel Path

Specify the location at which the excel files will be generated.

Data Source

Specify the JNDI location. The standard format is 'jdbc/fcjdevDS'.

Request Time Out

Specify the database request timeout value in seconds. This is the maximum number of seconds the database will wait for a query to return the result.

Connection Time Out

Specify the database connection timeout value in seconds. This is the maximum number of seconds the application will wait for a connection to the database to open.

Session Time Out:

Enter the Session Time Out Value in Seconds. This is the maximum number of seconds the application will wait for the user input after which the session will expire.

LOV Fetch Required

If you check this box, the option lists in Oracle FLEXCUBE will display the matching values based on the first characters that you enter in a field. That is, if you specify the first three characters of a value to be entered in an option list and tab out, the system will display the complete list of values that are matching the first three characters.

If you do not check this, option lists will not show the matching values based on the first few characters. You need to specify the complete value against the field.

3. Click 'Next'. The following screen is displayed.
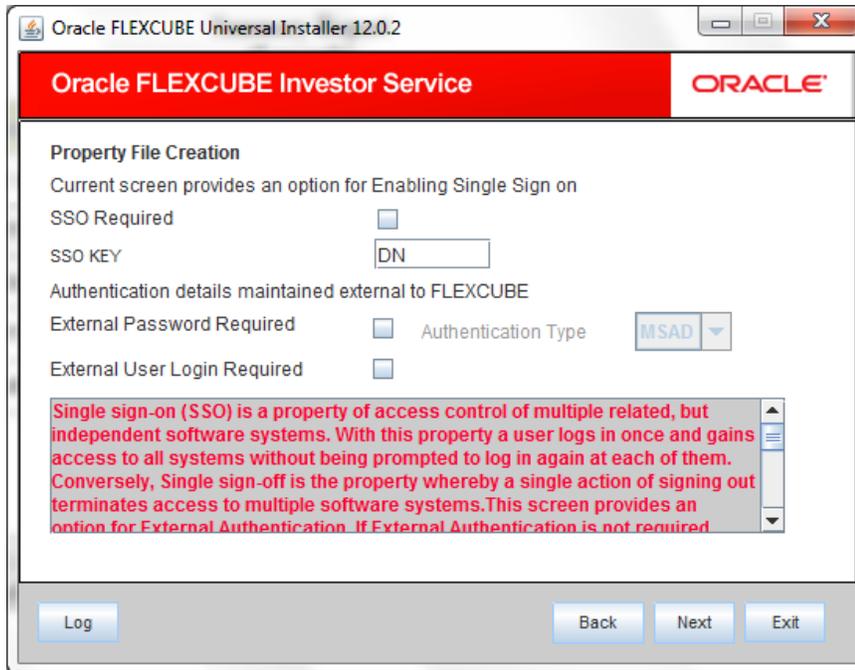
4. Specify the following details:

SSO Required

Check this box to enable single sign-on (SSO). If you check this box, you need to enter the SSO Key.

SSO Key

Specify the SSO key. If you have checked the box 'SSO Required, it is mandatory to specify the SSO key.

External Password Required

Check this box to allow user login using MSAD/LDAP password irrespective of the user Id.

Note: If you check this box, the user can login using MSAD/LDAP server password only. The user Id can be one of the following:

- MSAD/LDAP user Id
- FCUBS user Id

If you do not check this box, then the installer skips the following screen and directly navigates to the SSL screen shown below in this manual.
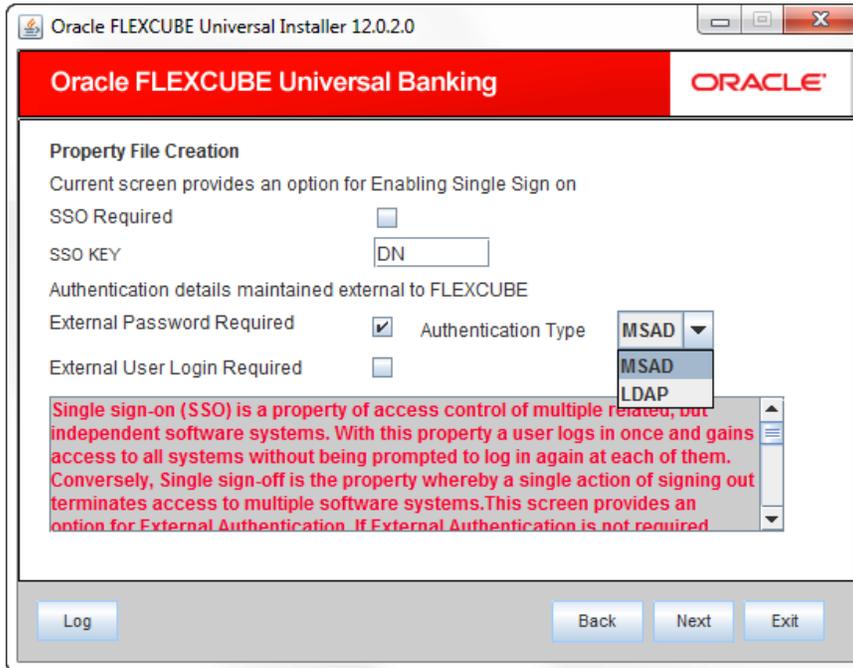
5. External User Login Required

Check this box to enable user login using MSAD/LDAP user Id.

Note: If you check this box, the user can login with MSAD/LDAP server user Id as well as FCUBS user Id. If you do not check this box, the user can login using FCUBS user Id only.

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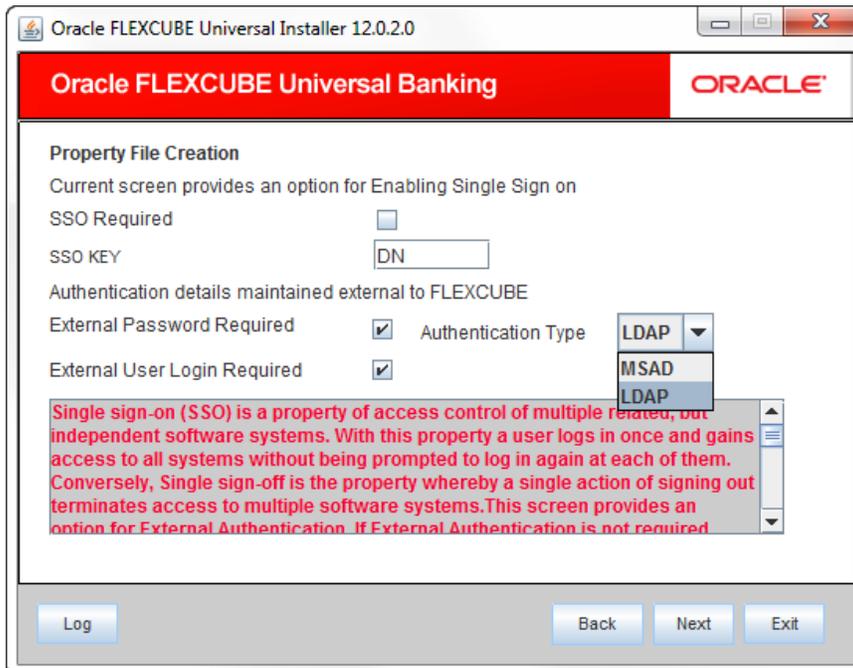
Authentication Type

Select the authentication type. This is the type of external server that is used. You can select one of the following options:

- MSAD (Microsoft Active Directory)
- LDAP (Lightweight Directory Access Protocol)

The default option is MSAD; however, you can change it

6. If you check the box, then the installer navigates to the following screen on clicking 'Next' button.

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Property File Creation
LDAP Server Details

No.	Name	Value
1	LDAP SERVER URL	LDAP://10.10.10.10:111
2	LDAP SSL ENABLED	☐
3	SECURITY AUTHENTICAT...	Simple
4	DOMAIN NAME	I-FLEX.COM
5	LDAP SERVER TIMEOUT	0

Log   Back   Next   Exit

7. Specify the following details:

LDAP Server URL

Specify the URL to access the LDAP server where the external user Ids or passwords are maintained.

LDAP SSL Enabled

Check this box if the LDAP server is SSL enabled.

Note: If you check this box, then you need to specify the SSL port in the field 'LDAP SERVER URL'.

Security Authentication Type

Depending on the authentication mechanism supported by the LDAP server, you need to select one of the following:

- Simple (in most cases)

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- Strong

Note: Different servers support different authentication mechanisms.
By default, the security authentication type is 'Simple; however, you can change it.

Domain Name

Specify the domain name.

LDAP Server Timeout

Specify the LDAP server timeout in milliseconds.

Note: Note the following:

- By default, the LDAP server timeout is zero; however, you can change this.
- You must enter a positive integer value. For example, 1000, 10000, 5000, etc.
- If the value specified is zero or less, it indicates that no read timeout is specified. Then, the wait for the response infinite until it is received.

8. Click 'Next'. The following screen is displayed.
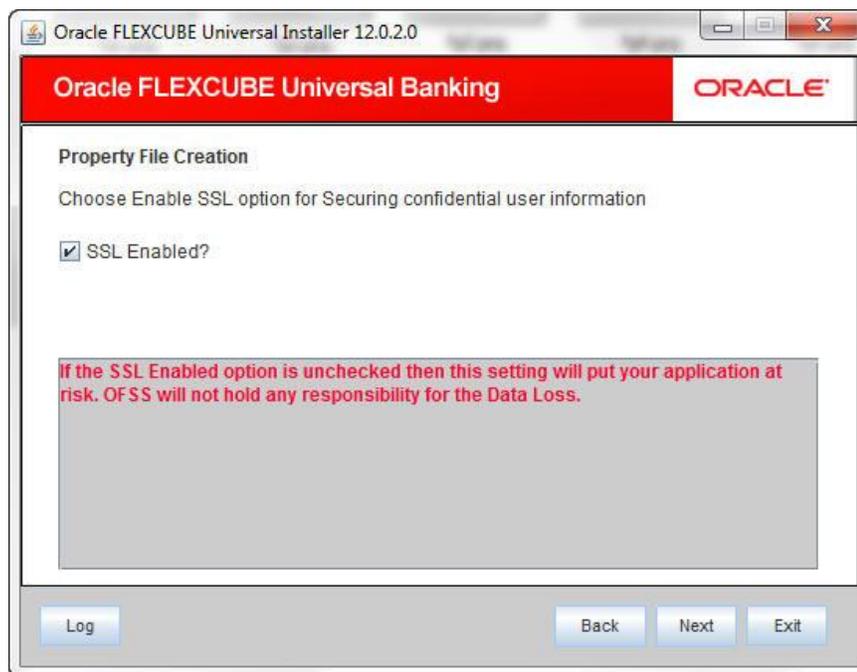

9. Specify the following details.

SSL Enabled

Indicate whether SSL is enabled or not. If SSL is required, choose 'Yes'. If SSL is not enabled, the Installer will pop-up a window.

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Choose Option

? Are you sure you want to change the setting to SSL Enabled? The current security settings will put your application at risk.

[Yes] [No]

However, it is recommended that you enable SSL.

10. Click 'Next'. You will be navigated to the next screen.

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Property File Creation

Screen provides an option for modifying the EL Gateway NOTIFY property values.

No.	Name	Value
1	Initial Context Factory	weblogic.jndi.WLInitialContextFactory
2	Provider Url	t3://110.184.86.149:7101/
3	JMS Security Principal	weblogic
4	JMS Security Credentials	••••••••
5	Connection Factory Name	EL_NOTIFY_QCF
6	Request Queue Name	EL_NOTIFY_REQ_Q

[Log] [Back] [Next] [Exit]

11. Specify the following details:

Initial Context Factory

Specify the initial context factory.

Provider URL

Specify the provide URL.

JMS Security Principal

Specify the login ID to access the application server.

JMS Security Credentials

Specify the password to access the application server.

Connection Factory Name

Specify the connection factory name.

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Request Queue Name

Specify the request queue name.

Response Queue Name

Specify the response queue name.

Dead Letter Queue Name

Specify the dead letter queue name.

12. Once you have specified the above details, click 'Next' button. The following screen is displayed.
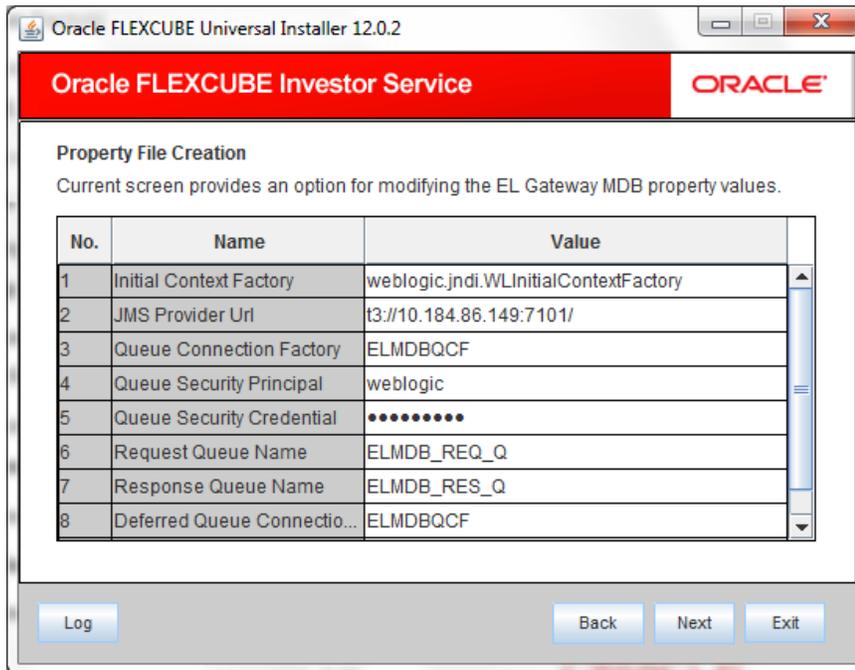
Specify the following details:

Initial Context Factory

Specify the initial context factory.

JMS Provider URL

Specify the JMS provide URL.

Queue Connection Factory

Specify the queue connection factory.

JMS Destination Provider URL

Specify the JMS destination provider URL.

Destination Queue Security User

Specify the login ID to access the destination queue security server.

Destination Queue Security Credentials

Specify the password to access the destination queue security server.

Destination Queue Connection Factory

Specify the destination queue connection factory.

Destination Queue Name

Specify the destination queue name.

13. Once you have specified the above details, click ‚Next'.

2.2.3 <u>Setting Language Properties</u>

This section describes the process of setting language packs of Oracle ELCM.

1. The system displays the following screen.

2. Specify the following details.

Language

Specify the language in which you wish to see Oracle FLEXCUBE. English is the default language. However, based on the requirement, you can set a different language. Choose the appropriate one from the drop-down list.

Based on the language selected, the installer displays the ISO code.

Application Title

Specify the application title.

E.g.: FLEXCUBE UBS

Version

Specify the application version.

E.g.: 12.0.2

Copy Rights

Specify the copyright details.

E.g.: Copyright@2007-2013 Oracle Financial Software Services Limited. All rights reserved.

1. Once you have specified the details, click 'Next'. You will be navigated to the CSS setting screen.

2.2.4 Setting CSS Style

This section describes the process of setting CSS style.

1. The following screen is displayed.
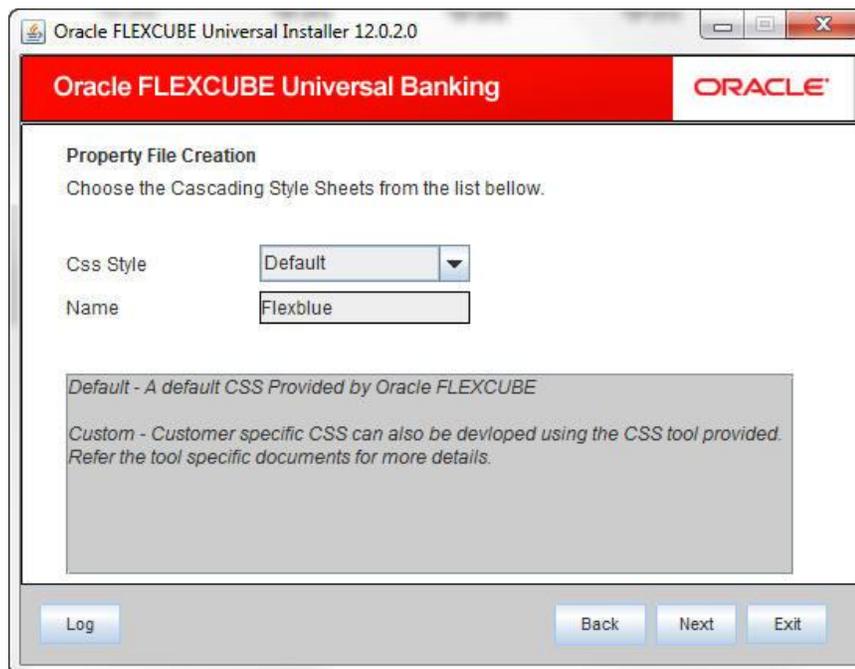
2. Specify the following details:

CSS Style

Specify the CSS style to be used. You can choose one of the following CSS styles:

- Default – choose this to apply the default style provided along with Oracle FLEXCUBE
- Custom – choose this to apply a custom style

Name

Specify the name of the CSS style.

3. Once you have specified the above details, click 'Next'. You will be navigated to the Hashing Algorithm Count Settings screen.

2.2.5 Setting Hashing Algorithm Iteration Count

This section describes the method of setting hashing algorithm iteration count.

1. The following screen is displayed.
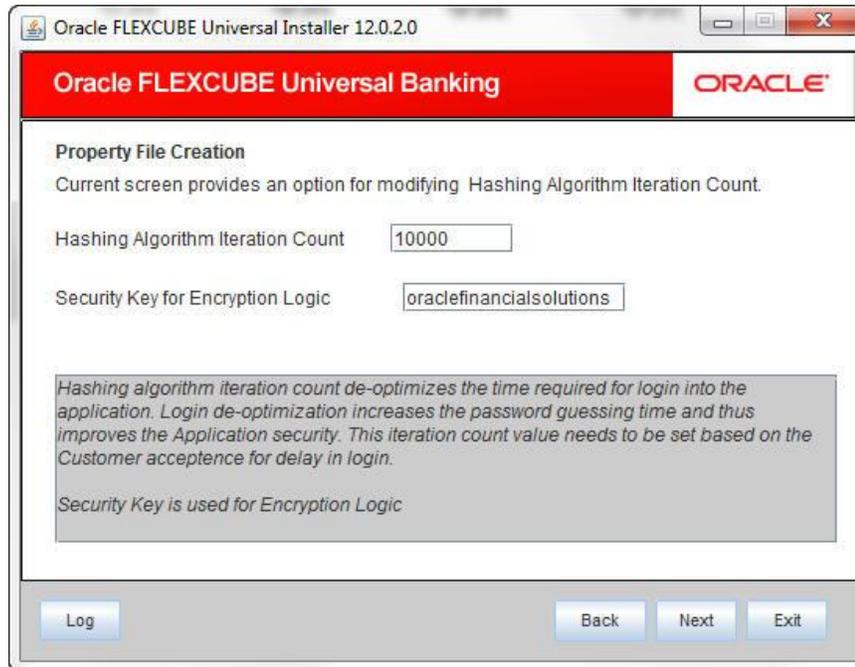
2. Specify the following details:

Hashing Algorithm Iteration Count

Specify the hashing algorithm iteration count. This count implies the time required for logging into the application. An increase in this count increases the login time.

3. Once you have specified the details, click 'Next'.

2.2.6 Setting Email Details

This section describes the method to configure email details.

1. The following screen is displayed.
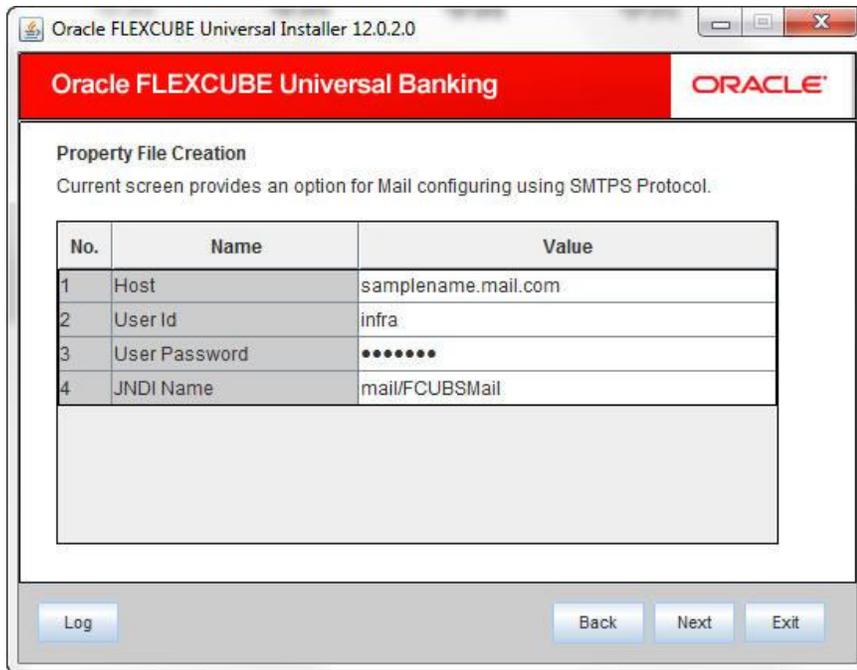
2. Specify the following details.

Host

Specify the SMTP host name.

User ID

Specify the user ID.

User Password

Specify the user password.

JNDI Name

Specify the JNDI name.

3. Once you have specified the above details, click 'Next'.

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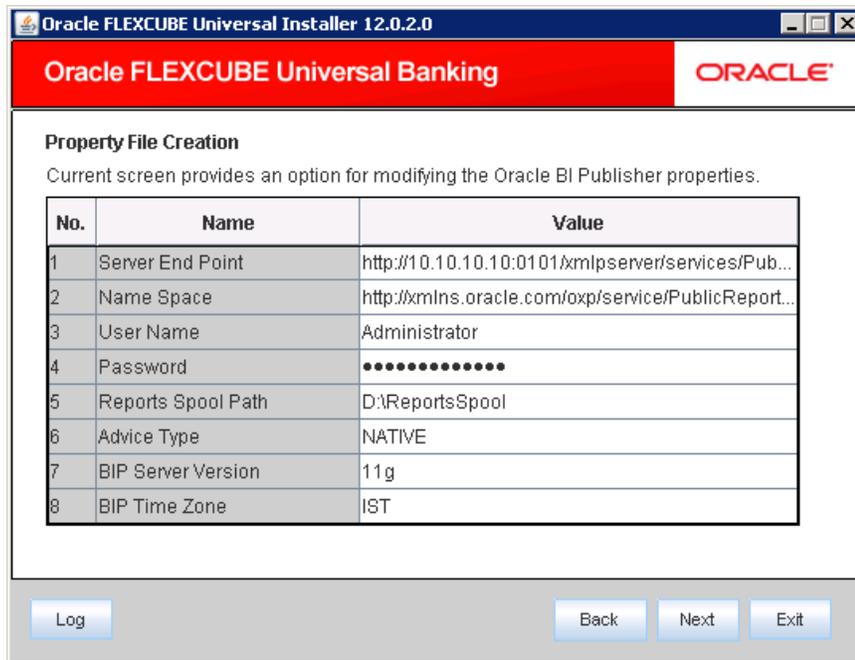
4. Specify the following details:

Server End Point

Specify the BIP end point.

The default value is 'http://10.10.10.10:1010/xmlpserver/services/PublicReportService_ v11'. However, you need to change the IP and port where BIP Application is installed.WSDL URL gets modified based on "BIP Server Version" on selecting the required version from the dropdown.

Name Space

Specify the BIP name space.

By default, the installer displays 'http://xmlns.oracle.com/oxp/service/PublicReportService'.

User Name

Specify the BIP user name. By default, the Installer displays 'Administrator'.

Password

Specify the password for the above user name. By default, the Installer sets it as 'Administrator'.

Reports Spool Path

Specify the reports spool path.

Advice Type

Specify the advice type. You can choose one of the following:

- NATIVE – This advice type is used for generating advices in text format
- BIP – This advice type is used for generating advices in PDF format.

BIP Server Version

Specify the qualified BIP server version. You can select the appropriate one from the option list.

BIP Time Zone

Specify the time zone

Once you have specified the above details, click 'Next'.

2.2.7 Configuring Scheduler

The Screen provides an option to configure scheduler.

This section describes the method to configure scheduler data source.

1. The following screen is displayed.
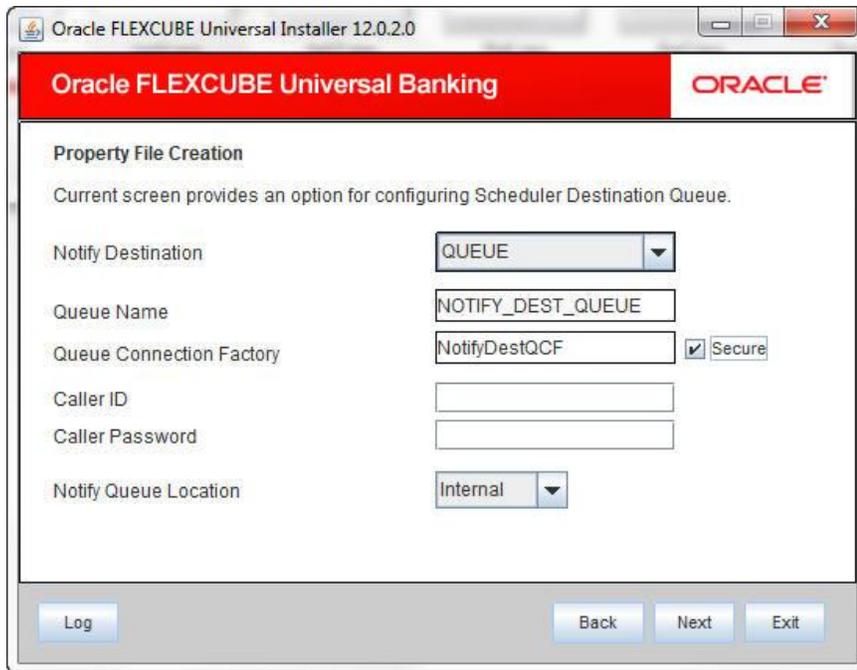
2. Specify the following details:

Notify Destination

Specify the notify destination. Choose one of the following options:

- QUEUE
- TOPIC

Queue Connection Factory

Set 'NotifyDestQCF' as the destination connection factory.

Queue Name

Set 'NOTIFY_DEST_QUEUE' as the destination queue name.

Topic Connection Factory

Set 'NotifyDestTCF' as the destination connection factory.

Topic Name

Set 'NOTIFY_DEST_QUEUE' as the destination queue name.

Notify Queue Location

Specify the notify queue location. Choose one of the following options:

- Internal
- External

Note: For Oracle WebLogic application server, the notify queue location should be selected as 'Internal'.

If you choose '**External**', you will be navigated to the following screen. Here you can specify the external queue details.
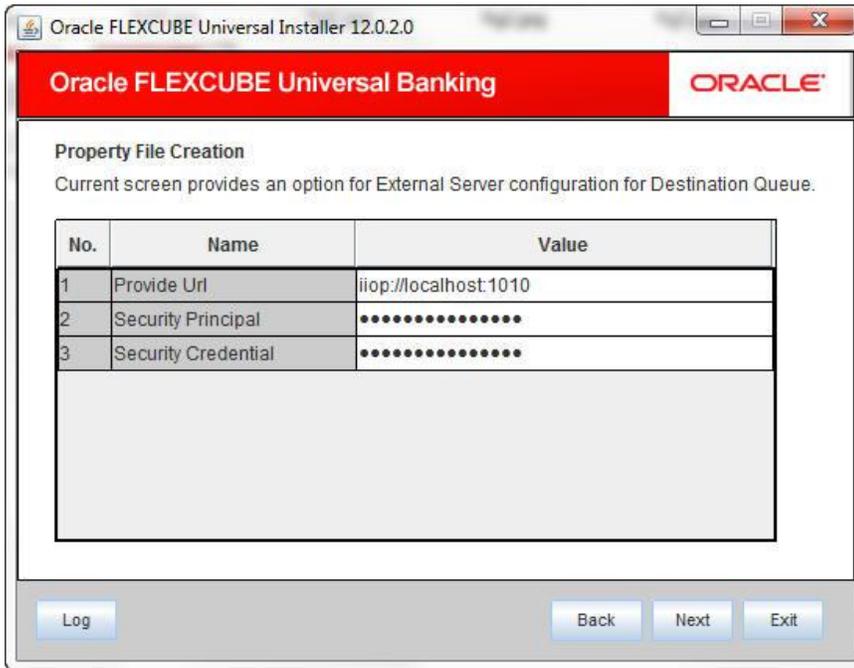
You need to specify the following details of the external queue.

Provider URL

Specify the provide URL (iiop://localhost:1010).

1010 is the default IIOP port.

Security Principal

Specify the login ID to access the application server.

Security Credentials

Specify the password to access the application server.

If you choose '**Internal**', you will be navigated to the following screen. Here you can specify the external queue details.
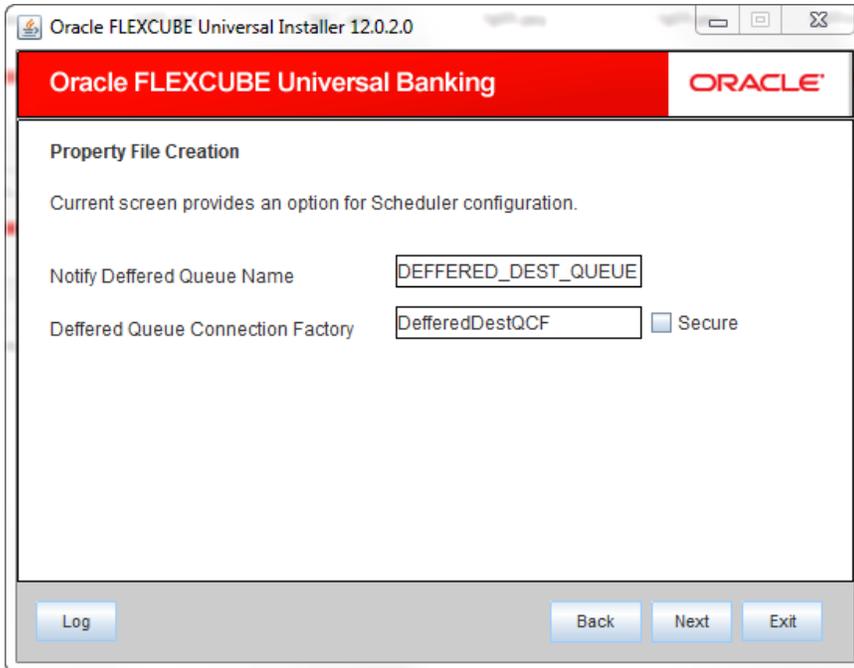
Deffered Queue Connection Factory

Set 'DefferedDestQCF' as the deffered connection factory.

Deffered Queue Name

Set 'DEFFERED_DEST_QUEUE' as the deffered queue name.
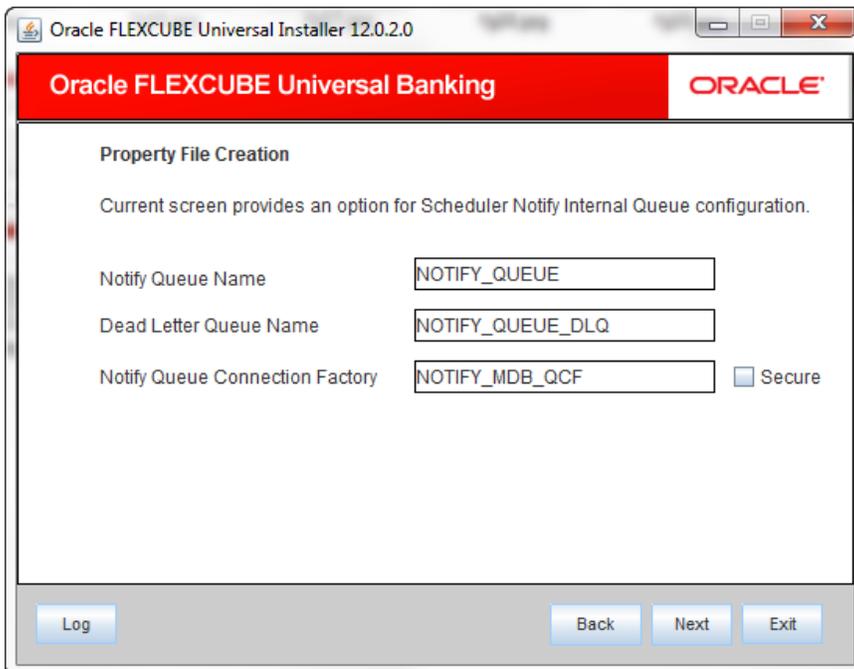
Notify Queue Connection Factory

Set 'NOTIFY_MDB_QCF' as the notify connection factory.

Notify Queue Name

Set 'NOTIFY_QUEUE' as the notify queue name.

DeadLetter Queue Name

Set 'NOTIFY_QUEUE_DLQ' as the DeadLetter queue name.

2.2.8 Setting EMS Properties

You will be navigated to the 'Scheduler EMS Properties' screen. Here, you need to set the EMS details.

1. Set the EMS properties:
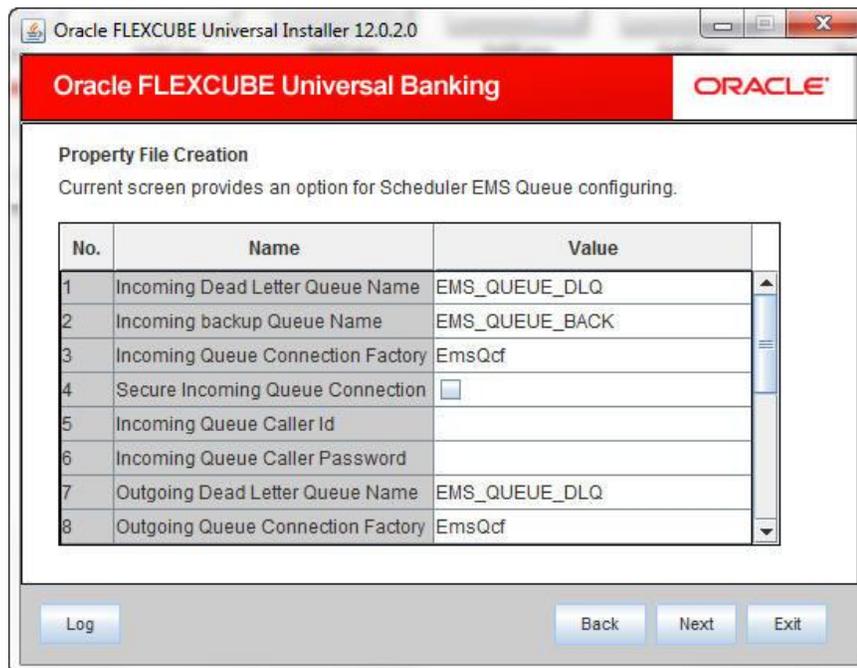
2. Specify the following details:

OutGoing Connection Factory

Specify the name of the outgoing connection factory to which EMS listens. You need to create this connection factory at the application server.

For details on connection factory creation, follow the steps described for creation of notify connection factories.

Incoming Connection Factory

Specify the name of the incoming connection factory to which EMS listens. You need to create this connection factory at the application server.

For details on connection factory creation, follow the steps described for creation of notify connection factories.

Outgoing Queue Name

Specify the name of the outgoing queue for which EMS is configured. By default, this is set as 'NOTIFY_QUEUE_DLQ'.

Incoming Queue Name

Specify the name of the incoming queue for which EMS is configured. By default, this is set as 'NOTIFY_QUEUE_DLQ'.

Incoming Backup Queue Name

Specify the name of the incoming backup queue for which EMS is configured.

Outgoing Queue Provider URL

In case EMS OUT MDB is to be configured to queue, you need to specify the URL for outgoing provider based on the application server. By default, the Installer displays the outgoing queue provider URL for Oracle WebLogic.

This value is application server dependent.

The details of Outgoing Queue Provider URL to be used for different application servers are given below:

Application Server	EMS Out Initial Context Factory
Oracle WebLogic	t3://<ip_adress>:port E.g.: t3://10.10.10.10:1010 Here, 10.10.10.10 represents the local host and 1010 to the target server default port (AdminServer/ManagedServer).
IBM WebSphere	iiop://<ip_adress>:port E.g.: iiop://10.10.10.10:1010 Here, 1010 represents the default iiop port

Queue Principal

If EMS OUT MDB has to be configured to queue, you need to specify the EMS out queue principal. This is the user name for the application server in which the queue is configured.

Queue Credential

If EMS OUT MDB has to be configured to queue, you need to specify the EMS out queue credential. This is the password for the above user name created for application server in which the queue configured.

3. Once you have specified the above details, click 'Next'.

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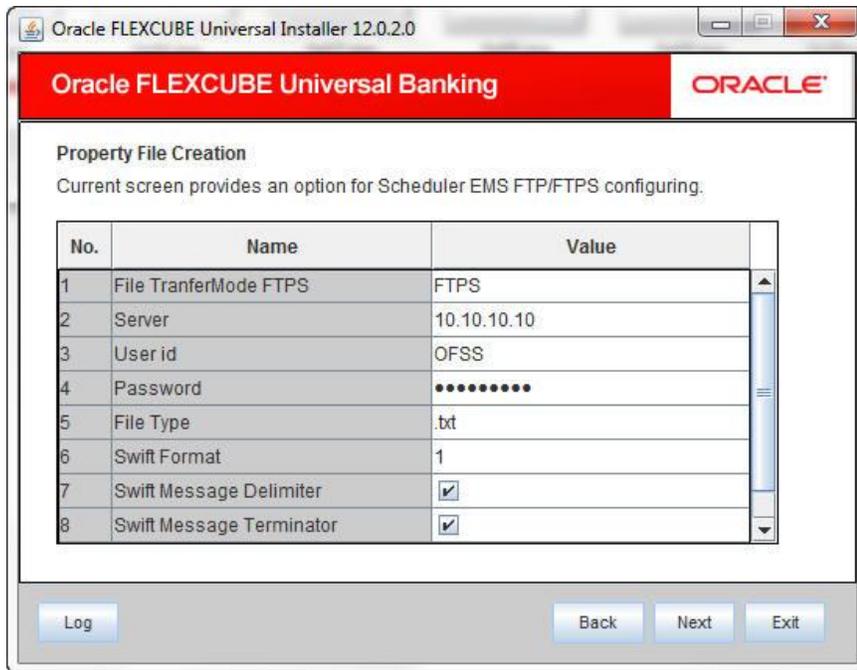
4. Specify the following details:

File Transfer Mode FTPS

Specify the mode of transferring files to EMS. Choose one of the following:

- FTPS
- SFTP
- HTTP

Server

Specify the server IP address for the selected file transfer mode.

User ID

Specify the user ID to access the server of the file transfer mode.

Password

Specify the password to for the above user ID.

File Type

Specify the type of file that is transferred. By default, the Installer sets it as '.txt'.

SWIFT Message Delimiter

Specify the character which is used as the message delimiter.

SWIFT Message Terminator

Specify the character which is used as the message terminator.

5. Once you have specified the above details, click 'Next'. The following screen is displayed.
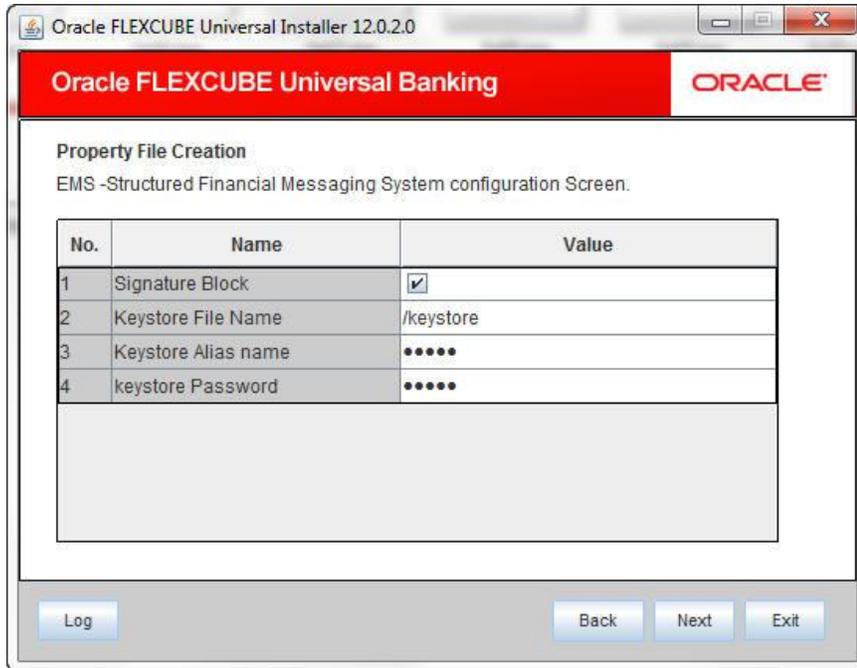
6. Specify the following details:

Signature Block

Check this box to enable signature block.

Keystore File Name

Specify the keystore file name.

Keystore Alias Name

Specify the keystore alias name.

Keystore Password

Specify the keystore password.

7. Once you have specified the above details, click 'Next'.

2.2.9 Setting BIP and BIP Advice Report

This screen describes how to create the property file. Here, you need to set the BIP and BIP Advice report details.

1. The following screen is displayed:

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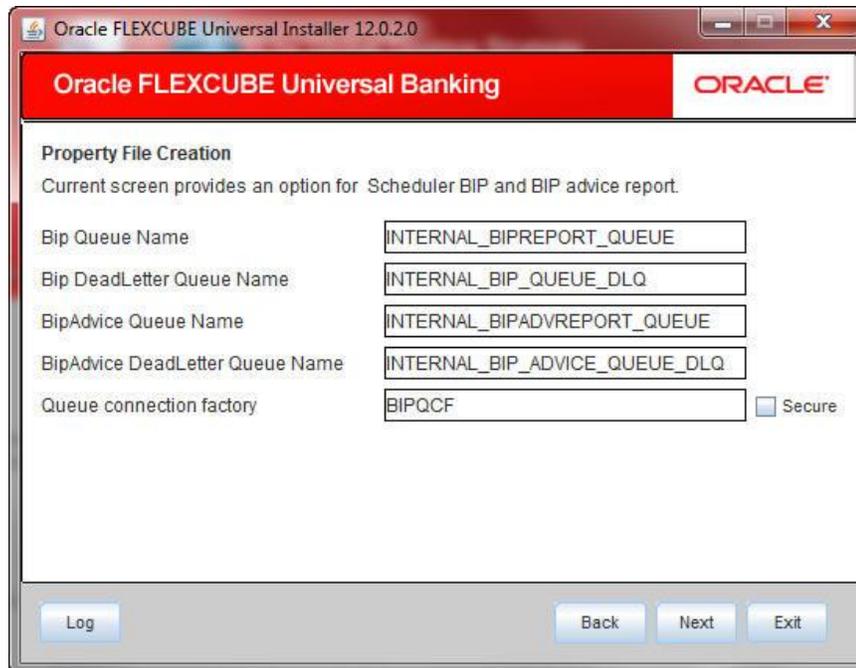
2. Specify the following details to set the EMS properties:

BIP Queue Name

Specify the BIP queue name as 'INTERNAL_BIPREPORT_QUEUE'.

BIP DeadLetter Queue Name

Specify the BIP deadletter queue name as 'INTERNAL_BIP_QUEUE_DLQ'.

BIPAdvice Queue Name

Specify the BIP advice queue name as 'INTERNAL_BIPADVREPORT_QUEUE'.

BIPAdivce DeadLetter Queue Name

Specify the BIP adivce dead letter queue name as 'INTERNAL_BIP_ADVICE_QUEUE_DLQ'.

Queue Connection Factory

Specify the queue connection factory as 'BIPQCF'.

Secure

Check this box to indicate that it is a secured deffered queue connection factory. If you check this box, you will be prompted to enter the caller ID and caller password as shown in the following screen.
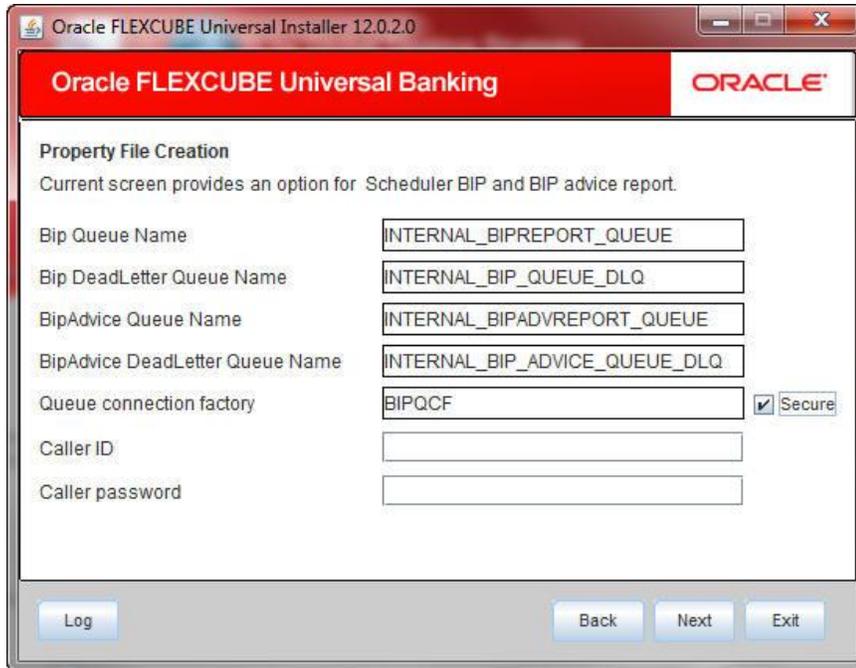
3. Specify the caller ID and caller password for the secured queue connection factory.

4. Once you have specified the above details, click 'Next'.

2.2.10 Setting GI Upload Properties

This screen describes how to specify the GI upload property details. Here you need to set the GI Upload properties.

1. The following screen is displayed:

2. Specify the following details:

ORACLE
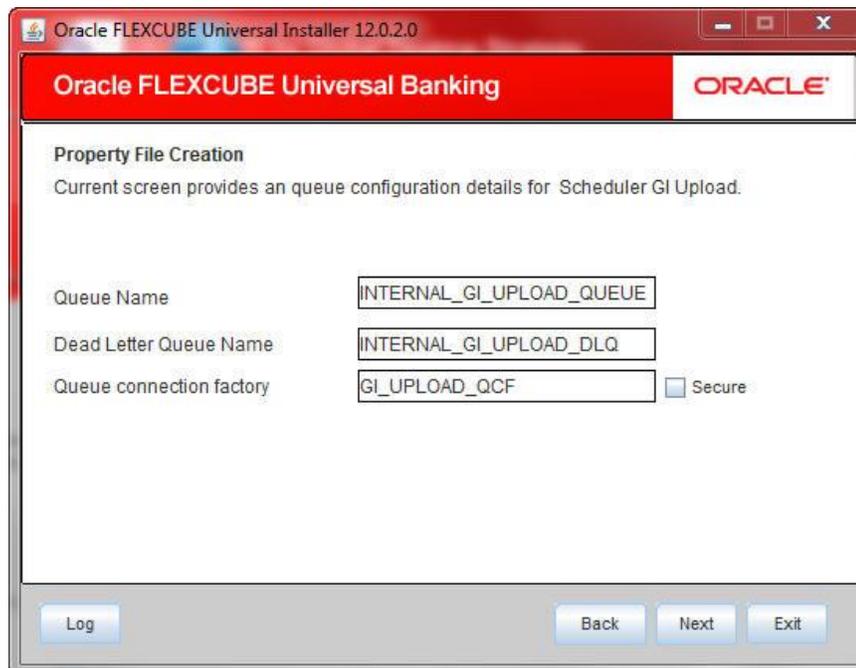
Queue Name

Specify the queue name as 'INTERNAL_GI_UPLOAD_QUEUE'.

Dead Letter Queue Name

Specify the dead letter queue name as 'INTERNAL_GI_UPLOAD_DLQ'.

Queue Connection Factory

Specify the queue connection factory as 'GI_UPLOAD_QCF'.

Secure

Check this box to indicate that it is a secured deffered queue connection factory. If you check this box, you will be prompted to enter the caller ID and caller password as shown in the following screen.

3. Specify the caller ID and caller password for the secured queue connection factory.

4. Once you have specified the above details, click 'Next'..

2.2.11 Saving Property File

After completing all the required settings explained above, you need to save the property file.

1. Save the property file.

ORACLE
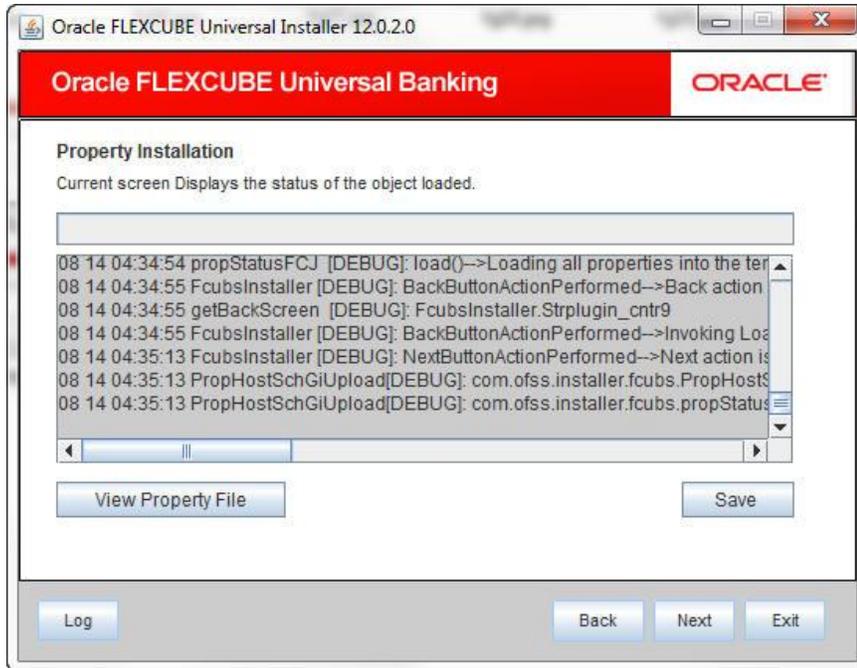
2. You can view the status of property file creation in the above screen.

3. Select the path where the properties file needs to be saved. It will create three files as '**fcubs.properties**', '**gtwproperties.properties**' and '**notifyproperties.properties**'.

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Setting up Property File
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