

FCIS Property File Setup  
Oracle FLEXCUBE Investor Servicing  
Release 14.7.6.0.0  
[October] [2024]



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# Table of Contents

<b>1.</b>	<b>CREATING PROPERTY FILE FOR ORACLE FLEXCUBE INVESTOR SERVICING .....</b>	<b>1-1</b>
1.1	INTRODUCTION .....	1-1
1.2	CREATING PROPERTY FILE .....	1-1
1.2.1	Setting Oracle FLEXCUBE Investor Servicing Plug-ins.....	1-6
1.2.2	Setting Common Properties .....	1-9
1.2.3	Setting Language Properties.....	1-21
1.2.4	Setting CSS Style.....	1-22
1.2.5	Setting Hashing Algorithm Iteration Count .....	1-23
1.2.6	Setting Email Details .....	1-24
1.2.7	Setting FCIS UBS Adapter Properties .....	1-25
1.2.8	Configuring Scheduler.....	1-26
1.2.9	Setting EMS Properties.....	1-33
1.2.10	Saving Property File.....	1-39
1.2.11	Chatbot Properties.....	1-40
1.3	SILENT CONFIG FILE MAINTENANCE.....	1-41
1.3.1	Env.properties.....	1-41
1.3.2	Silent EAR.....	1-42
1.3.3	Silent DB Compilation .....	1-45

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# 1. Creating Property File for Oracle FLEXCUBE Investor Servicing

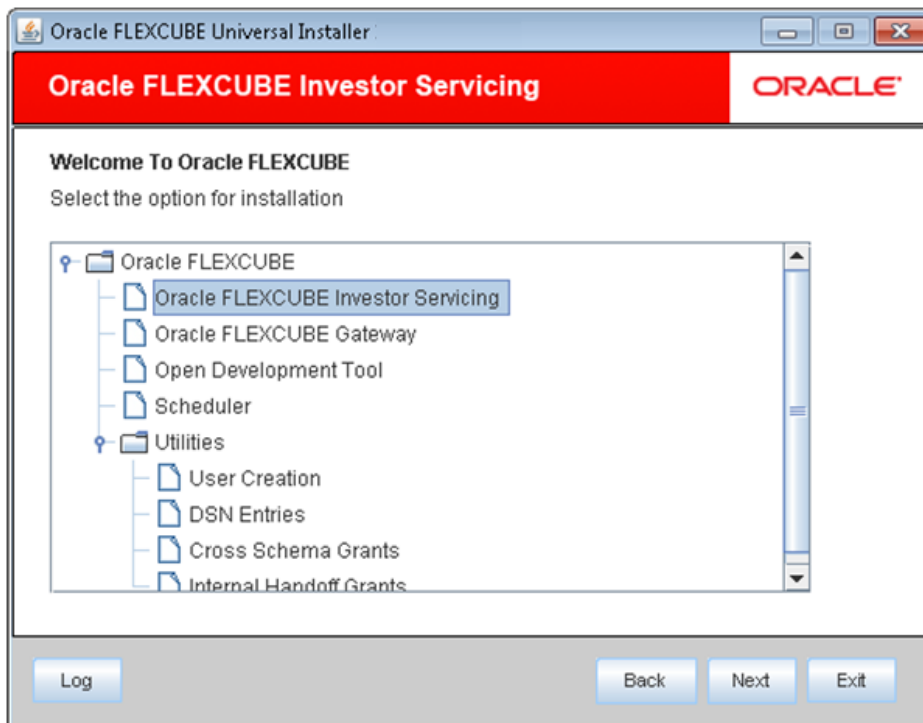
## 1.1 Introduction

This chapter explains the steps to create property files for Oracle FLEXCUBE Investor Servicing Application.

## 1.2 Creating Property File

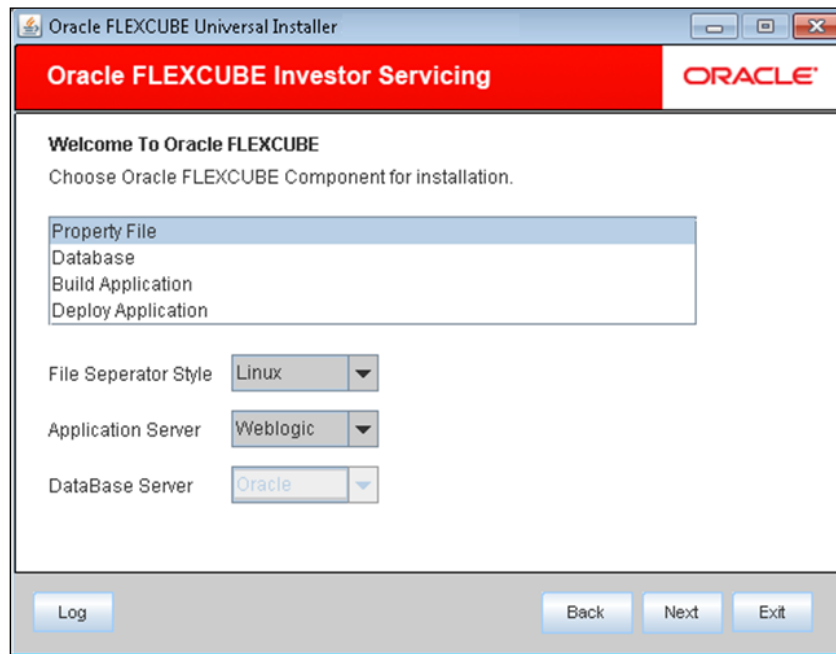
To create the property file for Oracle FLEXCUBE Investor Servicing, follow the steps given below:

1. Launch Oracle FLEXCUBE Investor Servicing Installer.



2. Choose 'Oracle FLEXCUBE Investor Servicing'. Click 'Next'.

3. The following screen is displayed:



4. Choose the option 'Property File'.
5. Specify the following details:

#### **File Seperator Style**

Specify the operating system in which you are creating the property file. Choose the appropriate one from the drop-down list

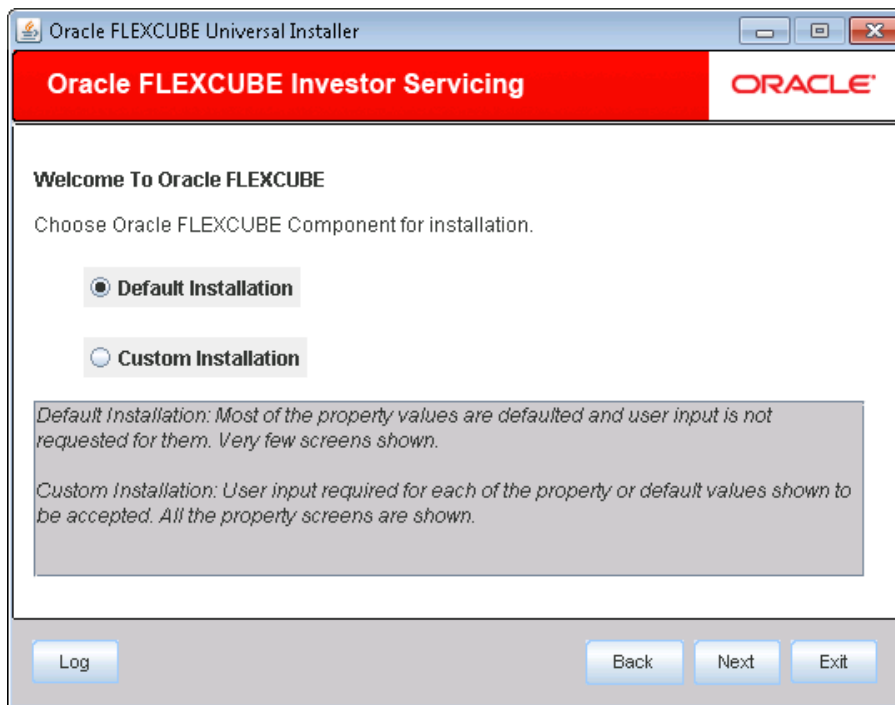
#### **Application Server**

Specify the application server in which you are creating the property file. Choose the appropriate one from the drop-down list.

#### **Database Server**

The system displays the database server in which you are creating the property file.

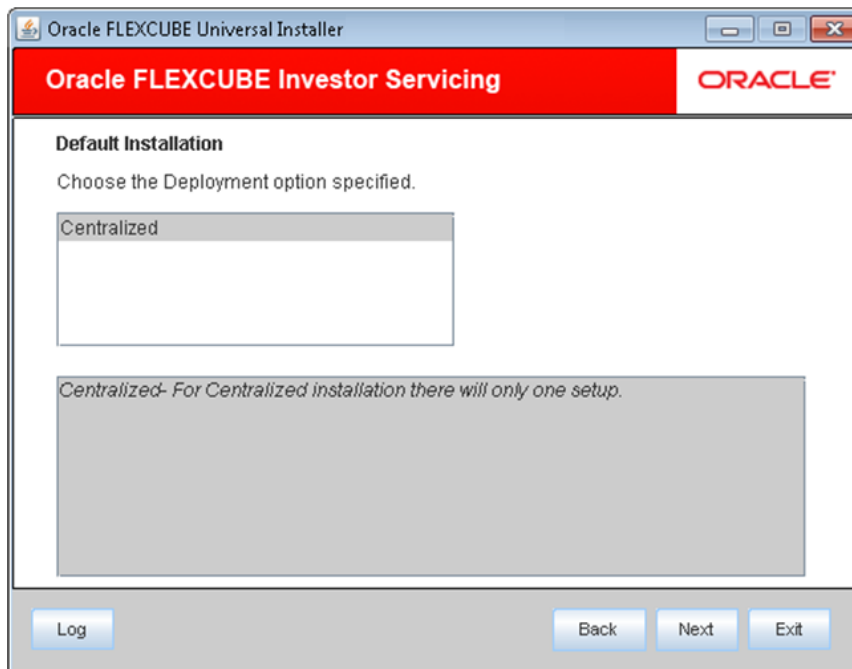
Once you have specified the details, click 'Next' to continue. The following screen is displayed.



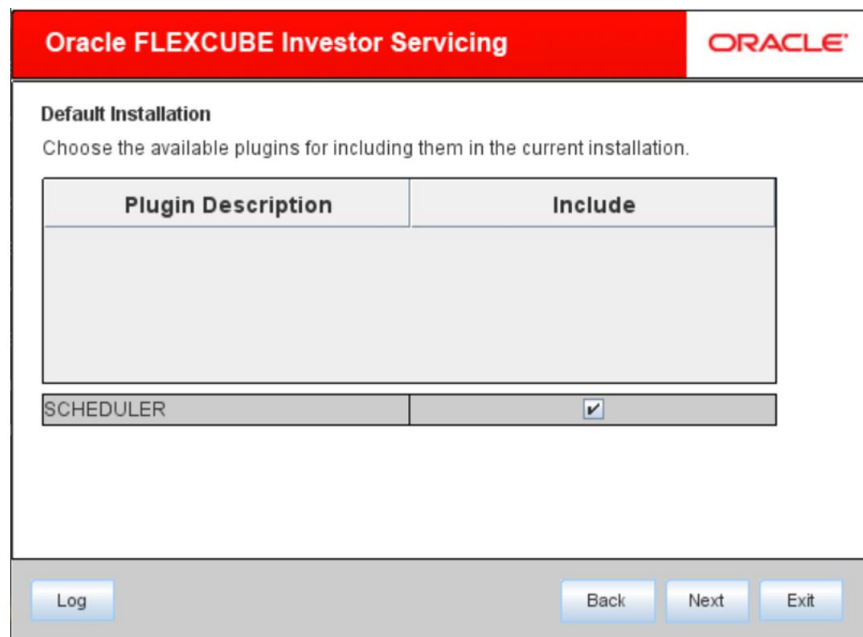
In this screen, choose either Default or Custom installation.

Default – Only the minimum list of details are asked for. Insulation plug-in is de-selected. SSO is by default No.

If you select 'Default Installation' options and click 'Next', the following window is displayed:

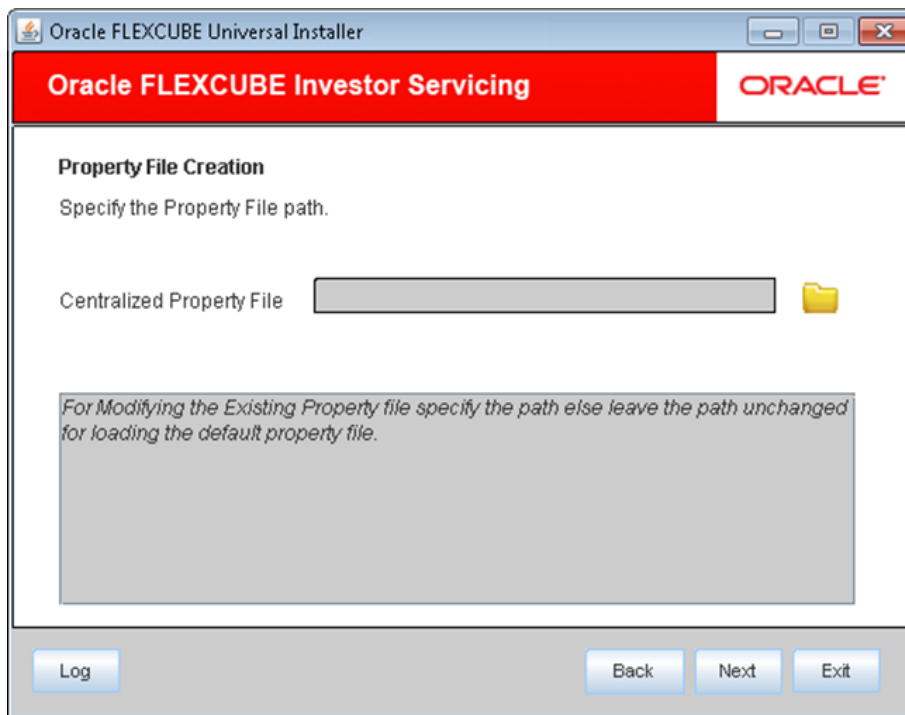


If you click 'Next', the following screen appears.



If there are any issues with the default values then, the property file created can be loaded and choosing custom Installation option it can be corrected.

If you click 'Custom Installation' option and click 'Next' button, the following screen is displayed:



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.

### 1.2.1 Setting Oracle FLEXCUBE Investor Servicing Plug-ins

Default Installation steps are as below

Plugin Description	Include
SCHEDULER	<input checked="" type="checkbox"/>

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



## Custom Installation steps are as below

This section describes the process of setting plug-ins.

1. You can select the plug-ins from the following screen.

Plugin Description	Include
Insulation	<input checked="" type="checkbox"/>
Scheduler	<input checked="" type="checkbox"/>
Chat Bot Installed	<input checked="" type="checkbox"/>

**Is Scheduler Standalone** ☐

Log Back Next Exit

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 FLEXCUBE Investor Servicing:

- Scheduler
- Insulation
- Chat Bot Installed

Note: If scheduler is required then, one can chose if scheduler is required as standalone.

For to choose standalone scheduler, one should go through scheduler option of building the EAR and deploy the EAR ahead of FCIS application

**Scheduler URL:** The value for the URL should be the scheduler URL that will be available once scheduler application is deployed.

If you check the box against 'Is Scheduler Alone' option and click 'Next', the following screen is displayed.

The screenshot shows a window titled "Oracle FLEXCUBE Universal Installer". The window has a red header bar with the text "Oracle FLEXCUBE Investor Servicing" and the "ORACLE" logo. Below the header, the main content area is titled "Scheduler Details" and contains the text "This screen requires standalone scheduler urls". There is a table with two columns: "Scheduler Name" and "Scheduler URL". The first row of the table has the text "SCHEDULER\_URL" in the "Scheduler Name" column and an empty text box in the "Scheduler URL" column. Below the table is a large empty rectangular area. At the bottom of the window, there is a grey bar containing four buttons: "Log", "Back", "Next", and "Exit".

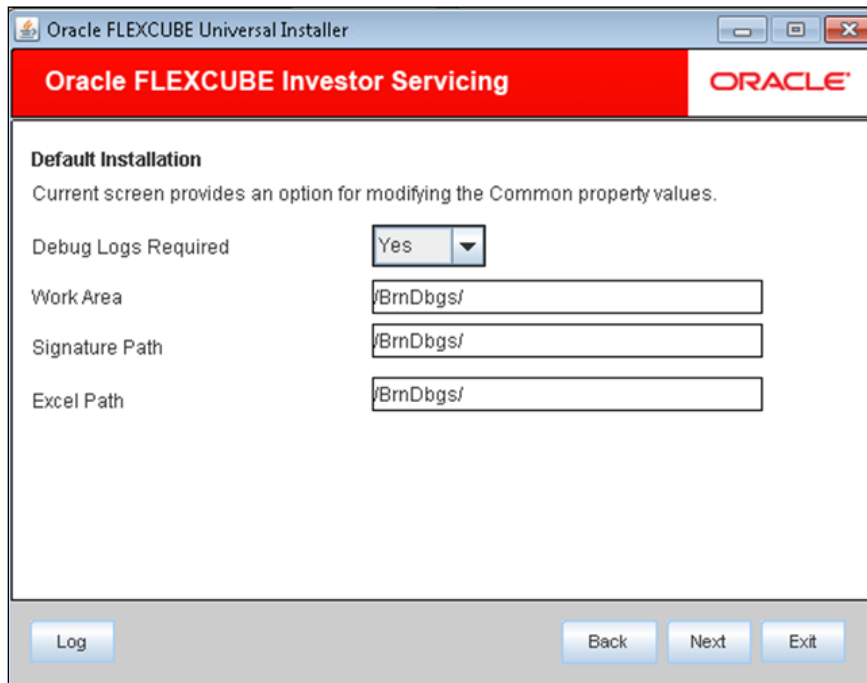
Scheduler Name	Scheduler URL
SCHEDULER_URL	

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

## 1.2.2 Setting Common Properties

This section describes the process of setting common properties of Oracle FLEXCUBE Investor Servicing.

**Default Installation steps are as below**



### **Debug**

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.

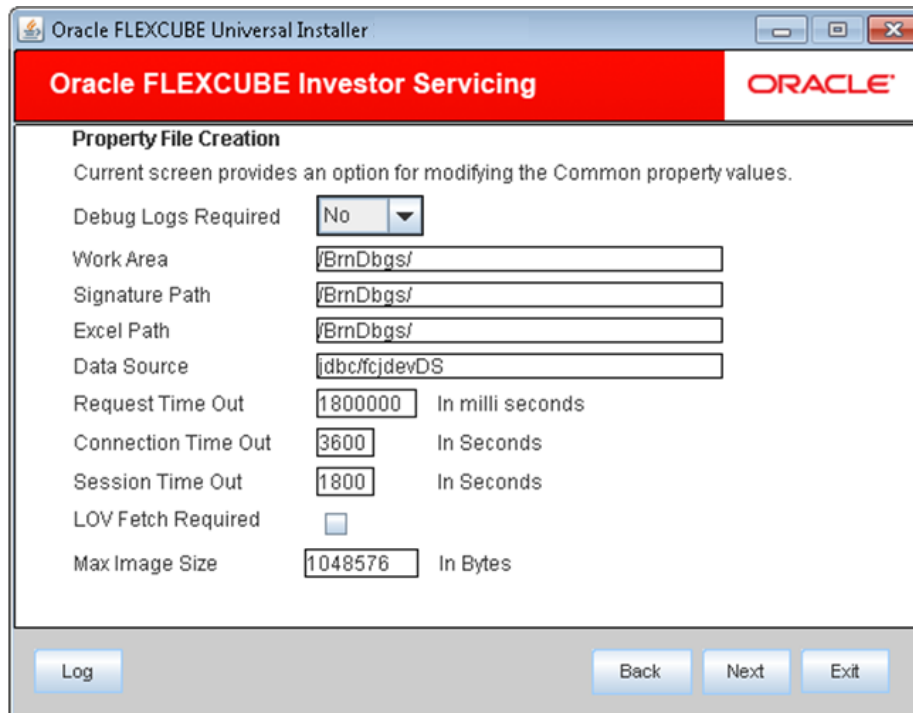
### **Excel Path**

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

On click on Next, details mentioned under section '**Setting Email Details**' needs to be followed. Please refer to that section for further flow in Default Installation option.

## Custom Installation steps are as below

1. The installer displays the 'Common Properties' screen.



2. The following are the common properties required for FCIS Application:

### Debug

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 which points to SMS schema. The standard format is 'jdbc/fcisdevDS'.

### 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

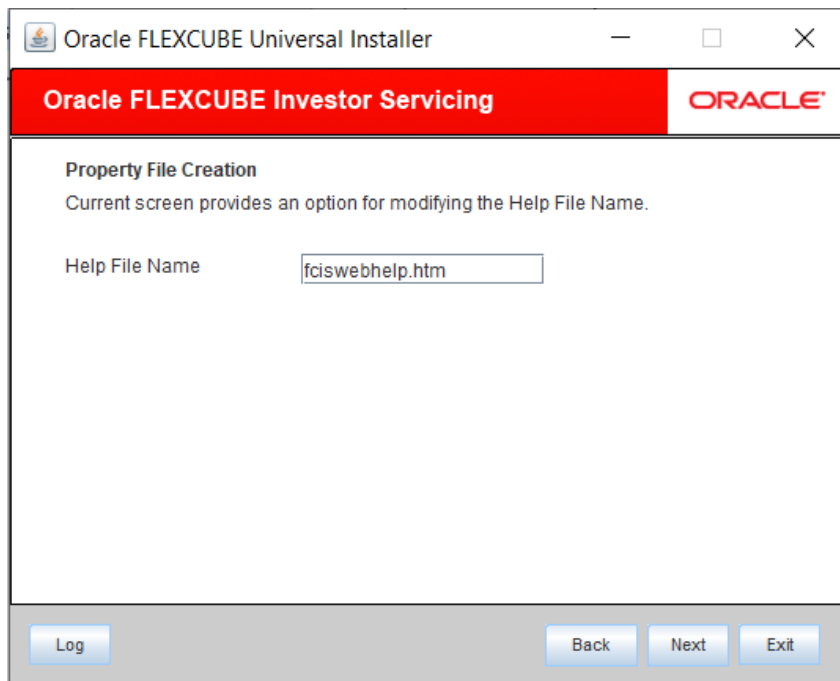
Specify the database connection timeout value in seconds. This is the maximum number of seconds the application will wait for a connection to the database to open.

### LOV Fetch Required

If you check this box, the option lists in Oracle FLEXCUBE Investor Servicing 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.



Enter following details

#### Help File Name

Enter Help File name

On click of next following screen is shown.

Oracle FLEXCUBE Investor Servicing

ORACLE®

Property File Creation

Current screen provides an option for Enabling Single Sign on

SSO Required ☐

SSO KEY

SSO Type

SSO Sign Off Required ☐

Authentication details maintained external to FLEXCUBE

External Password Required ☐ Authentication Type

External User Login Required ☐

Single sign-on (SSO) is a property of access control of multiple related, but independent software systems. With this property a user logs in once and gains access to all systems without being prompted to log in again at each of them.

▲

▼

≡

Log

Back

Next

Exit

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.

## SSO Type

Specify the SSO type. The options available are:

- DEFAULT
- TOKEN
- SAML
- IDCS\_TOKEN

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for Enabling Single Sign on

SSO Required ☒

SSO KEY

SSO Type **DEFAULT** ▼

SSO Sign Off Required ☐

Authentication details maintained external to FLEXCUBE ☐ Authentication  ▼

External Password Required ☐

External User Login Required ☐

Single sign-on (SSO) is a property of access control of multiple related, but independent software systems. With this property a user logs in once and gains access to all systems without being prompted to log in again at each of them.

Log Back Next Exit

### DEFAULT

This option is the default scenario where the External SSO system needs to send the SSO UserID mapped to the application userID in the SSO\_KEY parameter.

For Example:

If SSO\_KEY maintained is DN and SSO\_USERID is [fcbsuser@oracle.com](mailto:fcbsuser@oracle.com), then SSO system needs to send SSO USERID in request header DN parameter when request is sent to the application. The SSO UserID needs to be maintained in LDAP\_USER field of User Maintenance screen –SMDUSRDF

### TOKEN

This option needs to be selected if Custom implementation is required for SSO authentication in the application.

Selecting this option will invoke AuthenticateCustomToken.class when application login is performed. The required custom implementation method for SSO/SAML needs to be done in the custom class.

**Exec File Path:** INFRA\FCJNeoWeb\war\WEB-INF\classes\com\ofss\infra\ssso\AuthenticateCustomToken.class can be referred for the method details.

**Post Script:** Configuration details on External SSO system will not be provided/available as part of Application documentation. This needs to be checked with the respective SSO provider.

## SAML

This option needs to be selected if SSO - SAML authentication is required. In this case, the external system needs to send the SAML request xml in the SSO\_KEY parameter.

Details such as Certificate Path, Certificate Password, Certificate Alias and Certificate Valid Audience needs to be entered for the SAML case.

Application will validate the SAML signature using the Certificate Path and Password. Also the SAML Audience value provided should be the same as in SAML request sent to the application.

After the successful SAML validations, application will allow the user to login with the userID sent in the SAML request.

The SAML UserID sent in the SAML request needs to be maintained in LDAP\_USER field of user maintenance screen 'SMDUSRDF'.

No.	Name	Value
1	SAML CERTIFICATE PATH	D:\Security\SAML_Implementation\TestFiles\certl...
2	SAML CERTIFICATE PASSW...	*****
3	SAML CERTIFICATE ALIAS	barc
4	SAML VALID AUDIENCE	bPAID_BWSIT

Log Back Next Exit

## IDCS\_TOKEN

This option needs to be selected, if Oracle Identity Cloud Service(IDCS) is used as the Identify & Access management system in cloud deployments.



## SSO Sign Off Required

This screen will be available only if SSO Sign Off Required is checked.

This option needs to be selected if the application is required to call External SSO logout URL, when user is logged off from the application.

Selecting the SSO Sign Off Required checkbox will enable the below fields:

- SSO\_SIGNOFF\_URL
- SSO\_SIGNOFF\_POST\_RD\_URL
- SSO\_REQ\_PARAM\_KEYS

### SSO\_SIGNOFF\_URL

The External SSO logout URL which needs to be invoked after application has been logged off, needs to be configured here. Example: "<https://<host>/oam/server/logout>".

### SSO\_SIGNOFF\_POST\_RD\_URL

This is applicable only if IDCS is used as IAM system. The URL/Context path which needs to be navigated post SSO signoff needs to be configured here. Example: "/FCJNeoWeb".

### SSO\_REQ\_PARAM\_KEYS

This is applicable only if IDCS is used as IAM system. The keys required for the IDCS token validation needs to be specified here as comma separated.

Example: "idcs\_service\_url,idcs\_remote\_user,idcs\_user\_assertion".

Oracle FLEXCUBE Investor Servicing

ORACLE

Property File Creation - Single Sign on

SSO Sign Off Configurations

SSO SIGNOFF URL	/cloudgate/logout.html
SSO SIGNOFF POST RD URL	/FCJNeoWeb
SSO REQ PARAM KEYS	idcs_service_url,idcs_remote_user,idcs_user_assertion

Log Back Next Exit

## External Password Required

Check this box to allow the user-login using MSAD/LDAP password irrespective of the user ID. If you check this box, the user ID can be either the MSAD/LDAP user ID or the FCIS user ID. And the password can be MSAD/LDAP server password only.

By default, this check box is unchecked. However, you can change this.

Oracle FLEXCUBE Universal Installer

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for Enabling Single Sign on

SSO Required ☐

SSO KEY

Authentication details maintained external to FLEXCUBE

External Password Required ☒ Authentication Type LDAP

External User Login Required ☐

Single sign-on (SSO) is a property of access control of multiple related, but independent software systems. With this property a user logs in once and gains access to all systems without being prompted to log in again at each of them. Conversely, Single sign-off is the property whereby a single action of signing out terminates access to multiple software systems. This screen provides an option for External Authentication. If External Authentication is not required, keep the

Log Back Next Exit

If you do not check this box, the installer skips the following screen and directly navigates you to the SSL screen shown below in this manual.

If you check the box, then click 'Next' and the following screen is displayed:

### External User Login Required

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



If you check this box, the user can login using MSAD/LDAP server user ID as well as using FCIS user ID.

### Authentication Type

Select the authentication type from the adjoining drop-down list. 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)

By default, 'MSAD' is selected; however, you can change it.

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

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

The screenshot shows a window titled 'Oracle FLEXCUBE Universal Installer'. The main header is 'Oracle FLEXCUBE Investor Servicing' with the ORACLE logo. The section is 'Property File Creation' with the subtitle 'LDAP Server Details'. It contains a table with 5 rows and 3 columns: No., Name, and Value.

No.	Name	Value
1	LDAP SERVER URL	LDAP://10.10.10.10:111
2	LDAP SSL ENABLED	<input type="checkbox"/>
3	SECURITY AUTHENTICAT...	Simple
4	DOMAIN NAME	I-FLEX.COM
5	LDAP SERVER TIMEOUT	0

At the bottom, there are buttons for 'Log', 'Back', 'Next', and 'Exit'.

6. 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)
- 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.

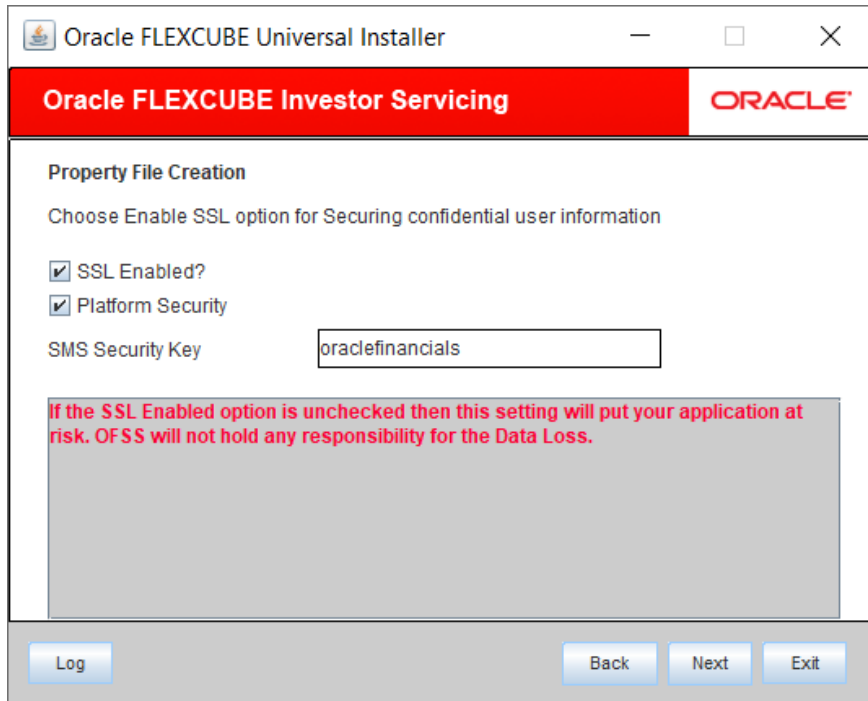


**Note:** Note the following:

- 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.

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

7. The following screen is displayed:



8. 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.

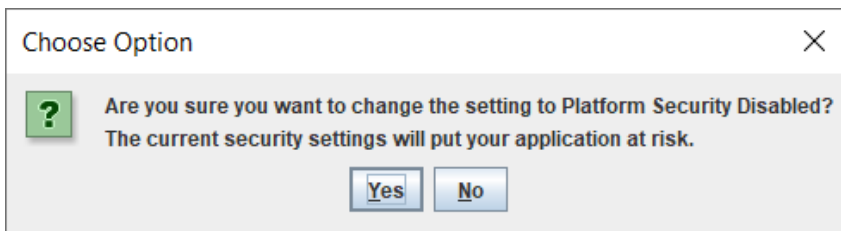


However, it is recommended that you enable SSL.

### Platform Security

Platform Security is available only for weblogic.

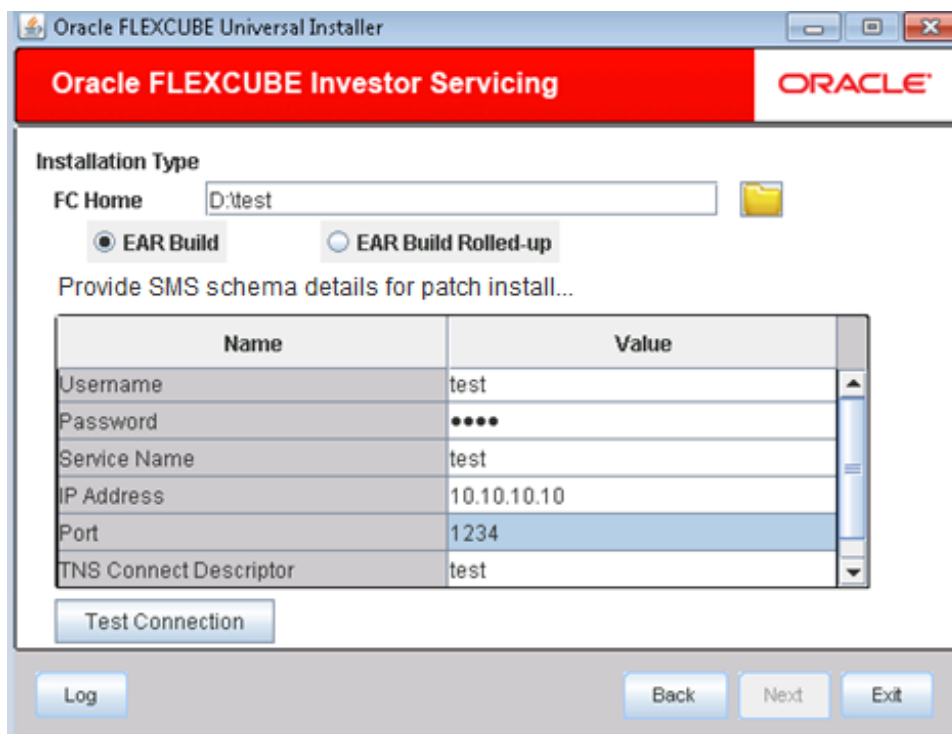
If Platform Security is not enabled, the Installer will pop-up a window.



9. If Platform Security is checked for weblogic the symmetric key is not stored in the property file for security reasons. If Platform Security is unchecked the symmetric key is available in the property file and a warning message is displayed to the user.

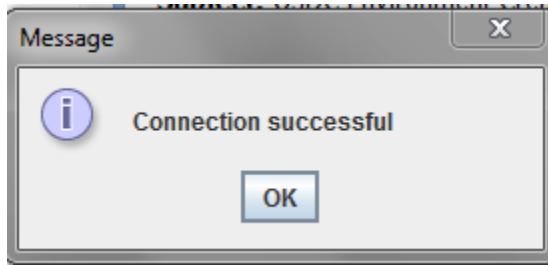
### SMS Security Key

10. Specify the security key for the Encryption, here in this case it is 'oraclefinancials'.
11. Click 'Next'. You will be navigated to the next screen.



12. Enter the source path in FC Home and provide the SMS schema details for path installation.
13. If Platform Security is enabled during property file creation, then DB details should be the actual database in which the application to be deployed.

On Click on Test Connection the following message will be displayed.

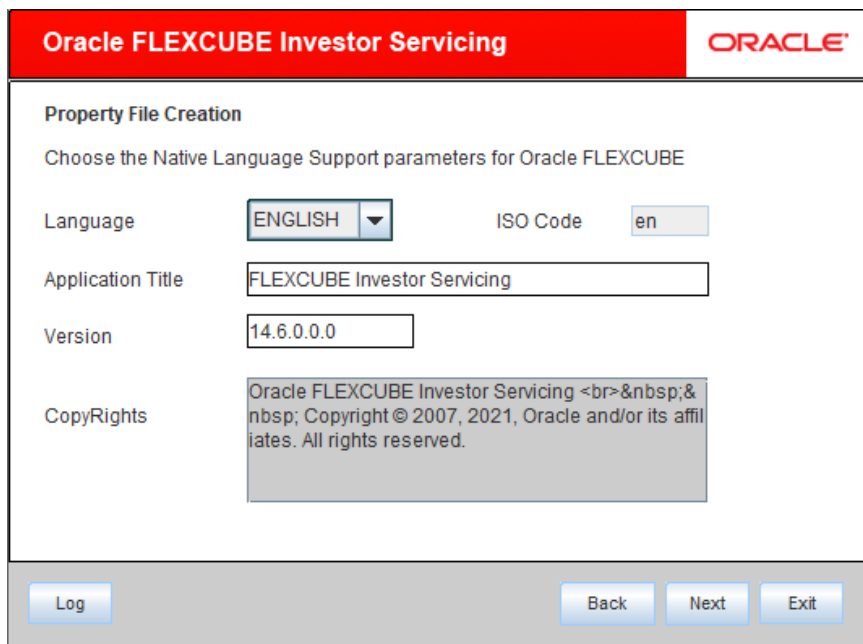


If connection is successful, click 'Next' to navigate to next screen.

### 1.2.3 Setting Language Properties

This section describes the process of setting language packs of Oracle FLEXCUBE Investor Servicing.

1. The system displays the following screen.



2. Specify the following details.

#### **Language**

Specify the language in which you wish to see Oracle FLEXCUBE Investor Servicing. 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 IS

### Version

Specify the application version.

E.g.: 12.0.0

### Copy Rights

Specify the copyright details.

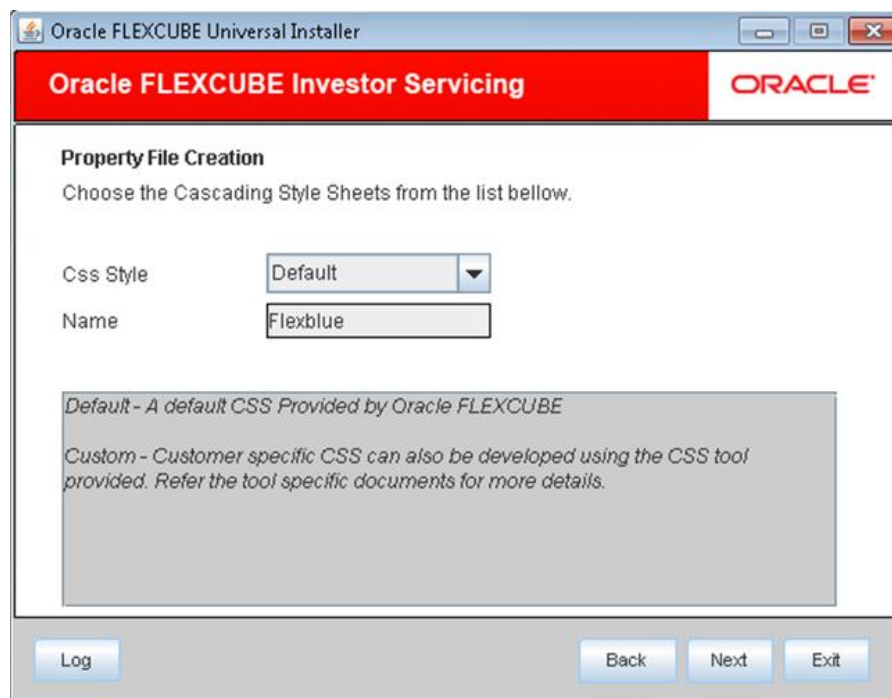
E.g.: Copyright@2007-2012 Oracle Financial Software Services Limited. All rights reserved.

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

## 1.2.4 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 Investor Servicing
- Custom – choose this to apply a custom style



## Name

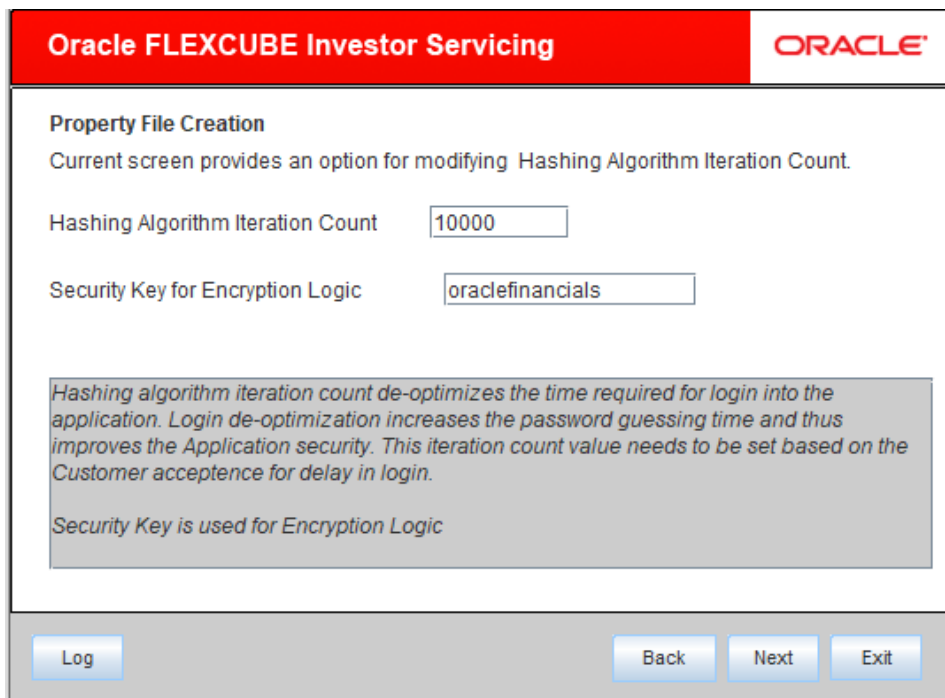
Specify the name of the CSS style.

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

### 1.2.5 Setting Hashing Algorithm Iteration Count

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

1. The following screen is displayed.



The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' application window. The title bar is red with the Oracle logo. The main content area is titled 'Property File Creation' and contains the text: 'Current screen provides an option for modifying Hashing Algorithm Iteration Count.' Below this, there are two input fields: 'Hashing Algorithm Iteration Count' with the value '10000' and 'Security Key for Encryption Logic' with the value 'oraclefinancials'. A grey box contains the following text: 'Hashing algorithm iteration count de-optimizes the time required for login into the application. Login de-optimization increases the password guessing time and thus improves the Application security. This iteration count value needs to be set based on the Customer acceptance for delay in login. Security Key is used for Encryption Logic'. At the bottom, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

2. Specify the following details:

#### Hashing Algorithm Iteration Count

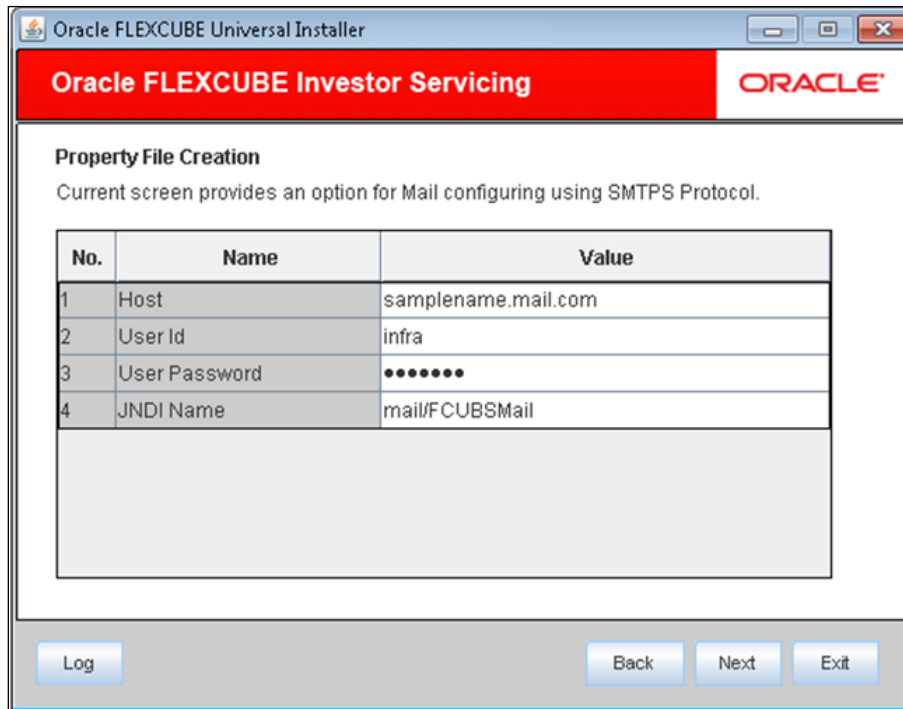
Specify the hashing algorithm iteration count. This count implies the time required for logging into the application. An increase in this count increases the login time.

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

## 1.2.6 Setting Email Details

This section describes the method to configure email details.

1. The following screen is displayed.



The screenshot shows the 'Oracle FLEXCUBE Universal Installer' window. The title bar is blue with the text 'Oracle FLEXCUBE Universal Installer'. Below the title bar is a red banner with 'Oracle FLEXCUBE Investor Servicing' on the left and the 'ORACLE' logo on the right. The main content area is titled 'Property File Creation' and contains the text 'Current screen provides an option for Mail configuring using SMTPS Protocol.' Below this is a table with four rows and three columns: 'No.', 'Name', and 'Value'. The rows are numbered 1 to 4. Row 1: Host, samplename.mail.com. Row 2: User Id, infra. Row 3: User Password, represented by seven dots. Row 4: JNDI Name, mail/FCUBSMail. Below the table is a large empty rectangular box. At the bottom of the window are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

No.	Name	Value
1	Host	samplename.mail.com
2	User Id	infra
3	User Password	•••••••
4	JNDI Name	mail/FCUBSMail

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'.

## 1.2.7 Setting FCIS UBS Adapter Properties

### Only for Custom Installation

This section describes the FCIS UBS Adapter properties setup.

The screenshot shows the 'Oracle FLEXCUBE Universal Installer' window. The title bar is blue with the Oracle logo. Below the title bar is a red banner with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main content area is titled 'Property File Creation' and contains the text: 'Current screen provides an option for specifying Call Out Adapter Properties.' Below this text is a table with three columns: 'S.No', 'Name', and 'Value'. The table has one row with the following data:

S.No	Name	Value
1	FCUBSAccService Url	http://10.10.10.10:1111

Below the table is a large empty rectangular box. At the bottom of the window are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

1. Specify the 'FCUBSAccService Url' and click 'Next'.

The screenshot shows the 'Oracle FLEXCUBE Universal Installer' window. The title bar is blue with the Oracle logo. Below the title bar is a red banner with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main content area is titled 'Property File Creation' and contains the text: 'Current screen provides an option for specifying MDB Adapter Queue Properties.' Below this text is a table with three columns: 'S.No', 'Name', and 'Value'. The table has three rows with the following data:

S.No	Name	Value
1	MDB ADAPTER Datasource	jdbc/fcjddev123
2	Inbound Queue Name	MDB_QUEUE
3	ADAPTER Queue Connection ...	MDBQCF

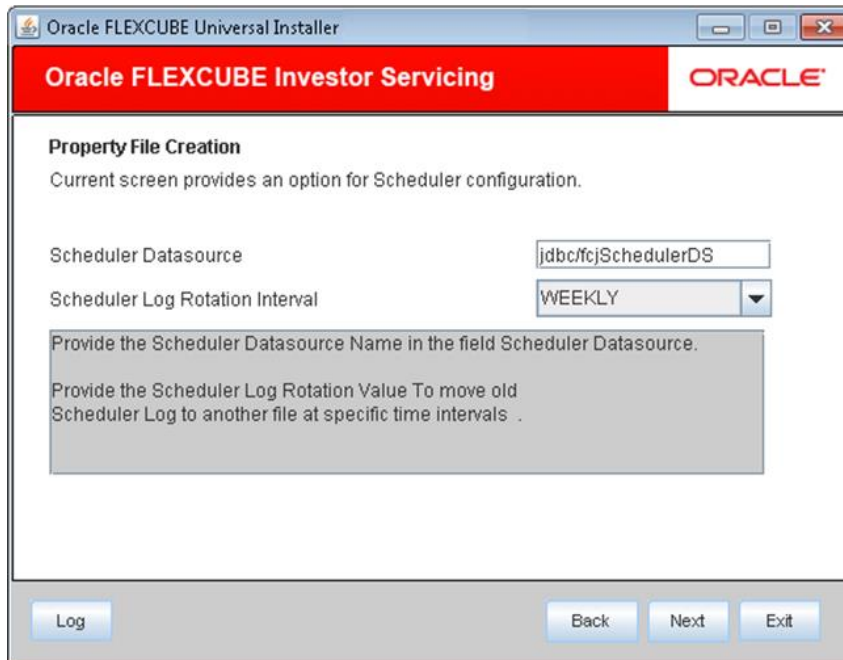
Below the table is a large empty rectangular box. At the bottom of the window are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

Specify MDB Data source, Queue name and Queue Connection Factory.

## 1.2.8 Configuring Scheduler

### Only for Custom Installation

This section describes the method to configure scheduler data source. The following screen is displayed.



The screenshot shows the 'Oracle FLEXCUBE Universal Installer' window. The title bar reads 'Oracle FLEXCUBE Universal Installer'. The window has a red header bar with 'Oracle FLEXCUBE Investor Servicing' on the left and the 'ORACLE' logo on the right. The main content area is titled 'Property File Creation' and contains the text: 'Current screen provides an option for Scheduler configuration.' Below this, there are two input fields: 'Scheduler Datasource' with the value 'jdbc/fcjSchedulerDS' and 'Scheduler Log Rotation Interval' with a dropdown menu set to 'WEEKLY'. A grey box contains instructions: 'Provide the Scheduler Datasource Name in the field Scheduler Datasource.' and 'Provide the Scheduler Log Rotation Value To move old Scheduler Log to another file at specific time intervals .'. At the bottom, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

1. Specify the Scheduler Datasource which Oracle FLEXCUBE Investor Servicing will access.

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

Oracle FLEXCUBE Universal Installer

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for configuring Scheduler Destination Queue.

Notify Destination: QUEUE

Queue Name: NOTIFY\_DEST\_QUEUE

Queue Connection Factory: NotifyDestQCF ☐ Secure

Notify Queue Location: Internal

Log Back Next Exit

3. Specify the following details:

#### **Notify Destination**

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

- QUEUE
- TOPIC

#### **Queue Name**

Set 'NOTIFY\_DEST\_QUEUE' as the destination queue name.

#### **Queue Connection Factory**

Set 'NotifyDestTCF' as the queue connection factory.

#### **Notify Queue Location**

Select notify queue location from drop-down list. The list displays the following values:

- Internal
- External

## Secure

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

Oracle FLEXCUBE Universal Installer

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for configuring Scheduler Destination Queue.

Notify Destination: QUEUE

Queue Name: NOTIFY\_DEST\_QUEUE

Queue Connection Factory: NotifyDestQCF ☒ Secure

Caller ID:

Caller Password:

Notify Queue Location: Internal

Log Back Next Exit

### Caller ID

Specify the caller ID for the secured queue connection factory.

### Caller Password

Specify the password for the caller ID to access the secured queue connection factory.

**Note:** If the queue connection factory is not secured, i.e., if you have not checked the box 'Secure', the installer will not display the fields 'Caller ID' and 'Caller Password'. You need not provide these details in that case.

### 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 'Internal' as the 'Notify Queue Location', the screen provided in the following step will not be displayed. You will be navigated to next step where you can specify the notify deferred queue name and connection factory.

4. If you choose 'External', you will be navigated to the following screen.

No.	Name	Value
1	Provide Url	iiop://localhost:1010
2	Security Principal	.....
3	Security Credential	.....

5. 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.

6. Click 'Next' to proceed with scheduler configuration.

**Note:** If you choose 'Internal' as the 'Notify Queue Location', you will be directly navigated to the following screen. In that case, the installer will not show the screen explained in the previous step.

Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing ORACLE

**Property File Creation**

Current screen provides an option for Scheduler configuration.

Notify Deferred Queue Name DEFERRED\_DEST\_QUEUE

Deferred Queue Connection Factory DeferredDestQCF ☐ Secure

Log Back Next Exit

7. Specify the following details:

**Notify Deferred Queue Name**

Set 'DEFERRED\_DEST\_QUEUE' as the notify deferred queue name.

**Deferred Queue Connection Factory**

Set 'DeferredDestQcf' as the deferred queue connection factory.



## Secure

Check this box to indicate that it is a secured deferred 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.

Oracle FLEXCUBE Universal Installer

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for Scheduler configuration.

Notify Deferred Queue Name: DEFERRED\_DEST\_QUEUE

Deferred Queue Connection Factory: DeferredDestQCF ☒ Secure

Caller ID:

Caller Password:

Log Back Next Exit

8. Specify the caller ID and caller password for the secured deferred queue connection factory.
9. Click 'Next'. The following screen is displayed.

Oracle FLEXCUBE Universal Installer

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**

Current screen provides an option for Scheduler Notify Internal Queue configuration.

Notify Queue Name: NOTIFY\_QUEUE

Dead Letter Queue Name: NOTIFY\_QUEUE\_DLQ

Notify Queue Connection Factory: NOTIFY\_MDB\_QCF ☐ Secure

Log Back Next Exit

10. Specify the following details:

**ORACLE**

### Notify Queue Name

Set 'NOTIFY\_QUEUE' as the notify queue name.

### Dead Letter Queue Name

Set 'NOTIFY\_QUEUE\_DLQ' as the dead letter queue name.

### Notify Queue Connection Factory

Set 'NOTIFY\_MDB\_QCF' as the notify queue connection factory.

### Secure

Check this box to indicate that it is a secured 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.

The screenshot shows a window titled "Oracle FLEXCUBE Universal Installer". The main content area has a red header bar with "Oracle FLEXCUBE Investor Servicing" and the "ORACLE" logo. Below the header, the title "Property File Creation" is displayed. A message states: "Current screen provides an option for Scheduler Notify Internal Queue configuration." The form contains the following fields and controls:

- Notify Queue Name:
- Dead Letter Queue Name:
- Notify Queue Connection Factory:  ☒ Secure
- Caller ID:
- Caller Password:

At the bottom of the window, there are four buttons: "Log", "Back", "Next", and "Exit".

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

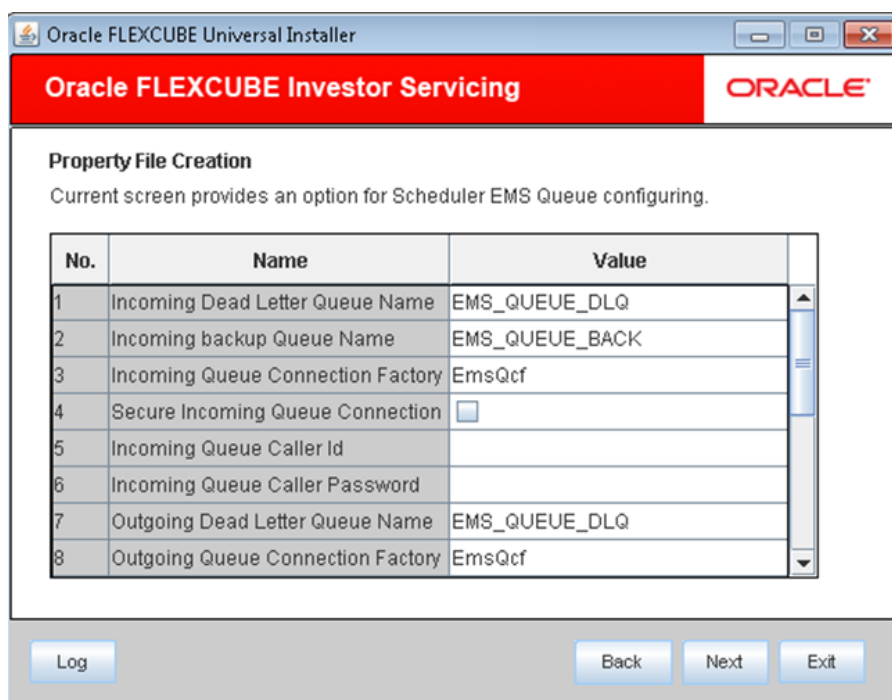
12.

## 1.2.9 Setting EMS Properties

### Only for Custom Installation except EMS FTP/FTPS

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:



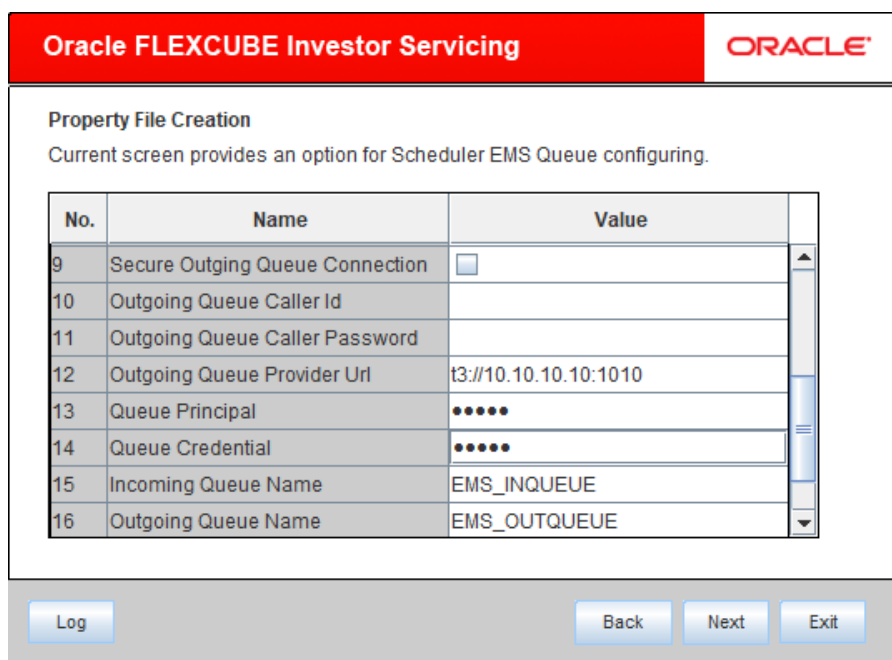
**Oracle FLEXCUBE Universal Installer**

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**  
Current screen provides an option for Scheduler EMS Queue configuring.

No.	Name	Value
1	Incoming Dead Letter Queue Name	EMS_QUEUE_DLQ
2	Incoming backup Queue Name	EMS_QUEUE_BACK
3	Incoming Queue Connection Factory	EmsQcf
4	Secure Incoming Queue Connection	<input type="checkbox"/>
5	Incoming Queue Caller Id	
6	Incoming Queue Caller Password	
7	Outgoing Dead Letter Queue Name	EMS_QUEUE_DLQ
8	Outgoing Queue Connection Factory	EmsQcf

Log Back Next Exit



**Oracle FLEXCUBE Universal Installer**

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**  
Current screen provides an option for Scheduler EMS Queue configuring.

No.	Name	Value
9	Secure Outgoing Queue Connection	<input type="checkbox"/>
10	Outgoing Queue Caller Id	
11	Outgoing Queue Caller Password	
12	Outgoing Queue Provider Url	t3://10.10.10.10:1010
13	Queue Principal	*****
14	Queue Credential	*****
15	Incoming Queue Name	EMS_INQUEUE
16	Outgoing Queue Name	EMS_OUTQUEUE

Log Back Next Exit

ORACLE

Oracle FLEXCUBE Investor Servicing		ORACLE®
<b>Property File Creation</b>		
Current screen provides an option for Scheduler EMS Queue configuring.		
No.	Name	Value
11	Outgoing Queue Caller Password	
12	Outgoing Queue Provider Url	t3://10.10.10.10:1010
13	Queue Principal	*****
14	Queue Credential	*****
15	Incoming Queue Name	EMS_INQUEUE
16	Outgoing Queue Name	EMS_OUTQUEUE
17	SFMS Incoming Queue	SFMS_INQUEUE
18	RTGS Incoming Queue	RTGS_INQUEUE

Log Back Next Exit

#### Incoming Dead Letter Queue Name

Set 'EMS\_QUEUE\_DLQ' as the incoming dead letter queue name.

#### Incoming Backup Queue Name

Set 'EMS\_QUEUE\_BACK' as the incoming backup queue name.

#### 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.

#### Secure Incoming Queue Connection

Check this box to indicate that it is a secured queue connection.

#### Incoming Queue Caller ID

Specify the caller ID for the secured queue connection.

#### Incoming Queue Caller Password

Specify the caller password for the secured queue connection.

#### Outgoing Dead Letter Queue Name

Set 'EMS\_QUEUE\_DLQ' as outgoing dead letter queue name.

#### 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.

### **Secure Outgoing Queue Connection**

Check this box to indicate that it is a secured outgoing queue connection.

### **Outgoing Queue Caller ID**

Specify the caller ID for the secured queue connection.

### **Outgoing Queue Caller Password**

Specify the caller Password for the secured queue connection.

### **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:

<b>Application Server</b>	<b>EMS Out Initial Context Factory</b>
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).

### **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.

### **Incoming Queue Name**

Specify the name of the incoming queue for which EMS is configured. By default, this is set as 'NOTIFY\_QUEUE\_DLQ'.

### **Outgoing Queue Name**

Specify the name of the outgoing queue for which EMS is configured. By default, this is set as 'NOTIFY\_QUEUE\_DLQ'.

### SFMS Incoming Queue

Specify the SFMS Incoming Queue.

### RTGS Incoming Queue

Specify the RTGS incoming Queue.

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

Oracle FLEXCUBE Universal Installer

**Oracle FLEXCUBE Investor Servicing** ORACLE

**Property File Creation**  
Current screen provides an option for Scheduler EMS FTP/FTPS configuring.

No.	Name	Value
1	File TranferMode FTPS	FTPS
2	Server	10.10.10.10
3	User id	OFSS
4	Password	*****
5	File Type	.txt
6	Swift Format	1
7	Swift Message Delimiter	<input checked="" type="checkbox"/>
8	Swift Message Terminator	<input checked="" type="checkbox"/>

Log Back Next Exit

For Default Installation following screen is shown.

**Default Installation**  
Current screen provides an option for Scheduler EMS FTP/FTPS configuring.

No.	Name	Value
1	Server	10.10.10.10
2	User id	OFSS
3	Password	.....

Log Back Next Exit

4. Specify the following details:

#### **File Transfer Mode FTPS**

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

- FTPS(defaulted in default installation)
- 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.

No.	Name	Value
1	Signature Block	<input checked="" type="checkbox"/>
2	Keystore File Name	/keystore
3	Keystore Alias name	.....
4	Keystore Password	.....

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.

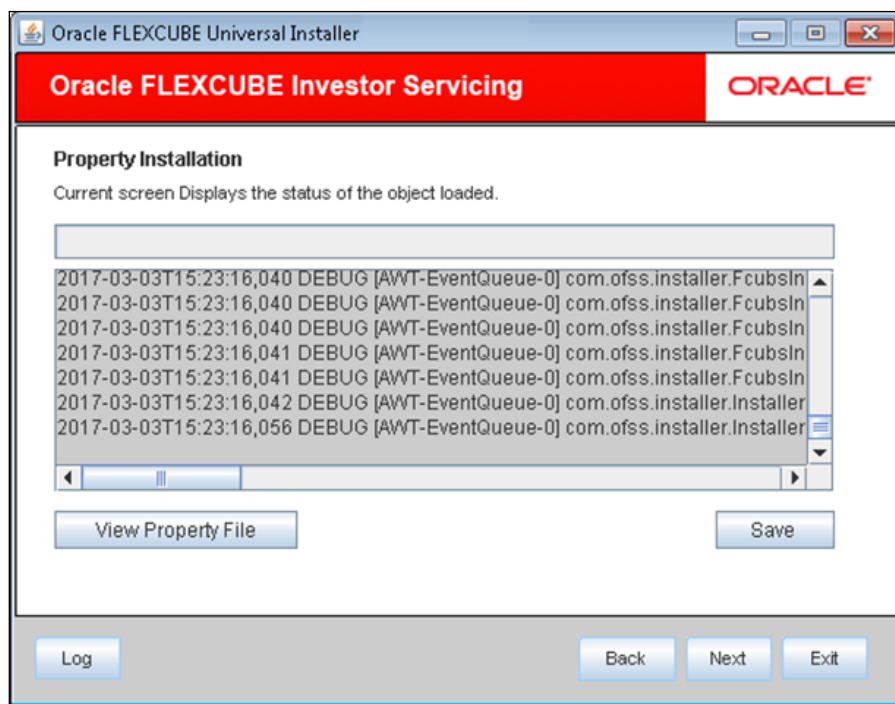
7. Once you have specified the above details, click 'Next'.



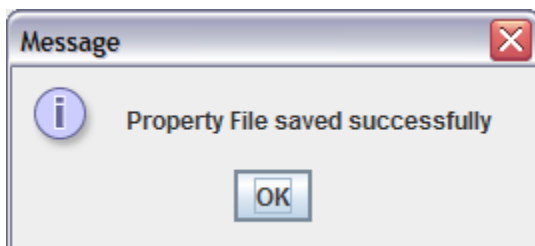
### 1.2.10 Saving Property File

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

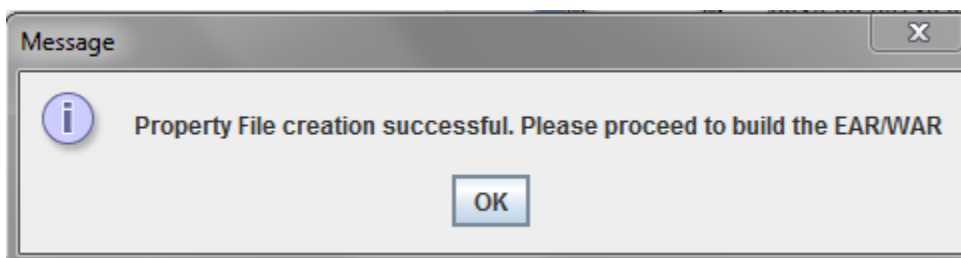
1. Save the property file.



2. You can view the status of property file creation in the above screen. Once the file is saved, the installer displays the following message.



On click of OK installer displays the following message



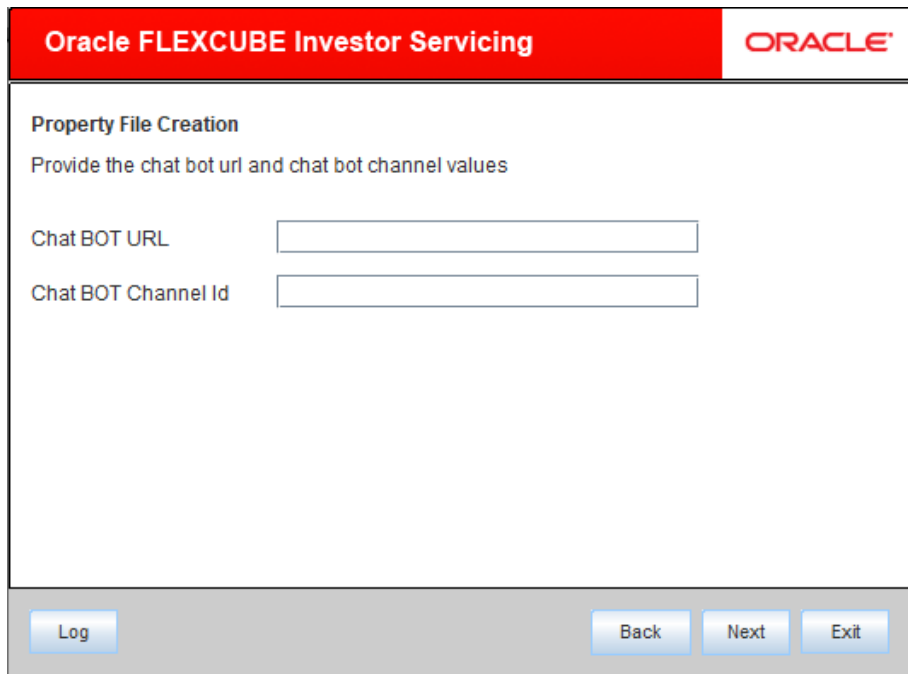
3. This completes the properties file creation.

#### **Note:**

Post creation of property file, re-launch the installer

## 1.2.11 Chatbot Properties

This section describes the method to configure Chatbot properties.



The screenshot shows a web application window titled "Oracle FLEXCUBE Investor Servicing" with the Oracle logo in the top right corner. The main content area is titled "Property File Creation" and contains the instruction "Provide the chat bot url and chat bot channel values". Below this, there are two input fields: "Chat BOT URL" and "Chat BOT Channel Id". At the bottom of the window, there is a navigation bar with four buttons: "Log", "Back", "Next", and "Exit".

FCIS makes use of web-sdk provided by Oracle to connect to the chatbot server. The web-sdk JavaScript files need to be downloaded separately.

The parameter chatbot to denote enable/disable is added in fcubs.properties file.

Detailed information on integrating Chatbot is provided in FCIS\_ODA integration user guide.

### **CHAT\_BOT\_INSTALLED**

If you do require Chatbot option, specify as 'Y', If you do not require Chatbot option, specify as 'N'.

### **CHAT\_BOT\_URL**

FCIS connects to the chat server via URI.

Specify the URI, which is the Chat Server URL.

### **CHAT\_BOT\_CHANNEL**

FCIS connects to the chat server through a Chatbot channel id.

Specify the channel id, which is the web channel id through which communication happens.

## 1.3 **Silent config file maintenance**

For the config file maintenance, the below file properties are mandatory,

- Env.properties  
Individual Fix or Installer needs this property.
- SilentEAR FCIS App ear/GW – WS, Rest, GWEJB RESTEJB, GW MDB GWHTTP  
It is used to Build Application or Gateway EAR
- SilentDBCompilation  
It is used For DB Compilation
- FCIS,Gateway Application Properties (can be generated using Installer)

### 1.3.1 **Env.properties**

- SINGLE\_FIX\_SCHEMA\_NAMES
- BUILD\_PROPERTY\_PATH
- SYMMETRIC\_KEY
- USERNAME
- PASSWORD
- PORT
- SERVICENAME
- IP
- JAVA\_HOME
- APPSERVER\_HOME
- ORACLE\_HOME

Individual Fix installer will validate whether the above eleven properties are available or not. The first eight properties are not required for the existing installer to run.

Env.properties is located in the path, <INSTALLER\_PATH>\\SOURCE\\logs\\env.properties

#### **SINGLE\_FIX\_SCHEMA\_NAMES**

It specifies the schema names with Tilde(~) separator.

#### **BUILD\_PROPERTY\_PATH**

It specifies the property file used for DB compilation or EAR build.

#### **SYMMETRIC\_KEY**

One needs to specify the symmetric key, which can be used to decrypt the encrypted property.

#### **USERNAME**

It is the schema name with encrypted format.

#### **PASSWORD**

It is the schema password with encrypted format

**PORT**

It specifies the port number, that schema needs to connect.

**SERVICENAME**

It is the schema service name with encrypted format.

**IP**

It is the IP or Host name with encrypted format.

**JAVA\_HOME**

It is the Java Home path.

**APPSERVER\_HOME**

It denotes the Application server home path.

**ORACLE\_HOME**

It specifies the Oracle DB home path.

Individual fix installer uses property number 4,5,6,7,8 and connects the schema to update the Applied fix status. Same schema details will be passed to existing installer to update the bug status in case of SINGLE\_FIX\_SOURCE=Y.

**PROPERTIES OF INDIVIDUAL FIX INSTALLER**

The below properties are automatically added by Individual Fix installer while applying the fix.

**SINGLE\_FIX\_SOURCE**

This value can be Y or N. For individual Fix, the value should be Y.

**SINGLE\_FIX\_BUG\_TYPE**

The value of this property will be A or D. The value D is for DB bug and value A is for any Java /JS bug.

**BUG\_TABLE\_NAME**

The value is CSTB\_APPLIED\_POINT\_FIXES. It is the name of point fix tracker table.

**BUG\_NUMBER**

The number that denotes which bug is being applied.

**SOURCE\_PATH**

It is the path where the source is located and it is taken for DB compilation.

Same env.properties file and its schema details should be maintained for all the bug.

**1.3.2 Silent EAR**

- Individual Fix installer internally calls the Silent EAR building for FCIS Application EAR preparation.



- Sample file is available in <INSTALLER\_PATH>SOURCE\config\Silent\silentConfigBuild.properties.

#### **For Application EAR building,**

- The property **APPLICATION\_TYPE** should be **FCIS**.
- Schema details should be encrypted.
- In PROPERTY\_FILE\_PATH, the property should specify the fcubs.properties file path.
- The individual fix Installer will validate whether the below properties are maintained in fcubs.properties,  
     APPLICATION\_NAME, APPLICATION\_SERVER,  
     APPLICATION\_WORK\_AREA, DEBUG, SSL\_ENABLED,  
     BRANCH\_CENTRALIZED, REQUEST\_TIME\_OUT, CONNECTION\_TIME\_OUT,  
     INIT\_DATASOURCE, SIGNATURE\_PATH, EXCEL\_PATH
- Whenever JAVA fixes is applied using the Individual fix installer, the consolidated fixes will be copied into Latest Rolled up sources then the EAR building will use the rolled up path.

#### **For GATEWAY Application EAR building,**

- The APPLICATION\_TYPE must be Gateway.

##### **A. Gateway EJB**

- In PROPERTY\_FILE\_PATH, the property should contain GW\_EJB\_Prop.properties location.
- The GATEWAY\_APPLICATION\_TYPE must be Gateway EJB
- The below listed properties are mandatory in GW\_EJB\_Prop.properties,  
     XSD\_PATH,FCUBS\_ENVELOPE\_XSD,MAX\_CLOB\_LEN,DB\_TIMEOUT,L  
     OGGER\_PATH,FCIS\_MSG\_SCHEMA\_CON\_POOLNAME,FCIS\_MSG\_SC  
     HEMA\_CON\_POSS\_REQD,DISTRIBUTED\_INSTALLATION,GW.LOGGE  
     R.FPATH,RTT\_PLUGIN,MSG\_IN\_LOG\_REQ,MSG\_OUT\_LOG\_REQ,SYM  
     METRIC\_KEY

##### **B. Gateway Webservices (SOAP)**

- In PROPERTY\_FILE\_PATH, the property should contain GW\_WS\_Prop.properties location.
- The GATEWAY\_APPLICATION\_TYPE must be Gateway WebServices.

##### **INDIVIDUAL**

- In this, the WEBSERVICE\_TYPE must be Individual.
- The INDIVIDUAL\_WEBSERVICE\_SELECTED should contains the service name with Tilde (~) separator. If the value is empty, then MODULES\_REQD EAR will be generated.
- The below listed properties are mandatory in GW\_WS\_Prop.properties

INDIVIDUAL\_WEBSERVICE\_SELECTED,EJB\_JNDI\_NAME,EJB\_CALL\_TYPE,  
 EJB\_CTX\_FACTORY,EJB\_SERVER\_URL,EJB\_SECURITY\_PRINCIPAL,EJB\_S  
 ECURITY\_CREDENTIALS,LOGGER\_PATH,GW.LOGGER.FPATH,XSD\_PATH,  
 RTT\_PLUGIN,MSG\_IN\_LOG\_REQ,MSG\_OUT\_LOG\_REQ,DISTRIBUTED\_INS  
 TALLATION,SYMMETRIC\_KEY,FCIS\_MSG\_SCHEMA\_CON\_POOLNAME,FCI  
 S\_MSG\_SCHEMA\_CON\_POSS\_REQD,MAX\_CLOB\_LEN,DB\_TIMEOUT

## INTEGRATED

- In this, the WEBSERVICE\_TYPE must be Integrated.
- MODULES\_REQD should contain ALL or specific Module(UT/SM etc).
- The below listed properties are mandatory in GW\_WS\_Prop.properties,

"EJB\_JNDI\_NAME","EJB\_CALL\_TYPE","EJB\_CTX\_FACTORY","EJB\_SERVER\_URL","EJB\_SECURITY\_PRINCIPAL","EJB\_SECURITY\_CREDENTIALS","LOGGER\_PATH","GW.LOGGER.FPATH","XSD\_PATH","RTT\_PLUGIN","MSG\_IN\_LOG\_REQ","MSG\_OUT\_LOG\_REQ","DISTRIBUTED\_INSTALLATION","SYMMETRIC\_KEY","FCIS\_MSG\_SCHEMA\_CON\_POOLNAME","FCIS\_MSG\_SCHEMA\_CON\_POSS\_REQD","MAX\_CLOB\_LEN","DB\_TIMEOUT"

## C. REST EJB

- In PROPERTY\_FILE\_PATH, the property should contain GW\_RESTEJB\_Prop.properties location.
- The GATEWAY\_APPLICATION\_TYPE must be RESTEJB.
- The below listed properties are mandatory in GW\_RESTEJB\_Prop.properties,

FCUBS\_SMS\_POOL\_NAME,LOGGER\_PATH,GW.LOGGER.FPATH,APPLICATION\_SERVER,SYMMETRIC\_KEY,REST\_MSG\_SCHEMA\_CON\_POOLNAME,MSG\_IN\_LOG\_REQ,MSG\_OUT\_LOG\_REQ,DEPLOYMENT\_TYPE,OPSS\_ENABLED

## D. REST Web Services

- In PROPERTY\_FILE\_PATH, the property should contain GW\_REST\_Prop.properties location.
- The GATEWAY\_APPLICATION\_TYPE must be RESTWS.

## INDIVIDUAL

- In this, the WEBSERVICE\_TYPE must be Individual.
- INDIVIDUAL\_WEBSERVICE\_SELECTED should contains the service name with Tilde (~) separator. if the value is empty, then MODULES\_REQD EAR will be generated.
- The below listed properties are mandatory in GW\_REST\_Prop.properties,

INDIVIDUAL\_WEBSERVICE\_SELECTED,FCUBS\_SMS\_POOL\_NAME,LOGGER\_PATH,GW.LOGGER.FPATH,APPLICATION\_SERVER,SYMMETRIC\_KEY,REST\_MSG\_SCHEMA\_CON\_POOLNAME,DEPLOYMENT\_TYPE,OPSS\_ENABLED,REST\_EJB\_CTX\_FACTORY,REST\_EJB\_PROV\_URL,REST\_EJB\_SECURITY\_PRINCIPAL,REST\_EJB\_SECURITY\_CREDENTIALS,REST\_EJB\_JNDI\_NAME,DEPLOYMENT\_TYPE,DISTRIBUTED\_INSTALLATION

## INTEGRATED

- In this, the WEBSERVICE\_TYPE must be Integrated.
- MODULES\_REQD should contains ALL or specific Module(UT/SM etc)
- The below listed properties are mandatory in GW\_REST\_Prop.properties,

FCUBS\_SMS\_POOL\_NAME,LOGGER\_PATH,GW.LOGGER.FPATH,APPLICATION\_SERVER,SYMMETRIC\_KEY,REST\_MSG\_SCHEMA\_CON\_POOLNAME,DEPLOYMENT\_TYPE,OPSS\_ENABLED,REST\_EJB\_CTX\_FACTORY,REST\_EJB\_PROV\_URL,REST\_EJB\_SECURITY\_PRINCIPAL,REST\_EJB\_SECURITY\_CREDENTIALS,REST\_EJB\_JNDI\_NAME,DEPLOYMENT\_TYPE,DISTRIBUTED\_INSTALLATION

### 1.3.3 **Silent DB Compilation**

- Individual Fix installer internally calls the Silent DB compilation for any DB related fixes.
- Sample file is available in the path, <INSTALLER\_PATH>SOURCE\config\Silent\silentConfigDatabase.properties.
- Using the Installer UI, we can compile only one schema at a time. But using the Individual Fix/ silent installer DB compilation, one can compile the DB units in multiple schemas.
- Schema details need to be pre-configured in configuration file and based on the configuration order, it will execute the action.
- The NUMBER\_OF\_SCHEMA\_EXECUTION property should contain the counts of schema need to be configured for DB compilation. For example, if the NUMBER\_OF\_SCHEMA\_EXECUTION is 2, it indicates that the total of two schema details need to be maintained in configuration.

#### **For Schema 1 Configuration,**

- SCHEMA1\_PASSWORD\_INPUT=N
- SCHEMA1\_USERNAME=MyTDumkOf3yX7Ujqg/ParA==
- SCHEMA1\_PASSWORD=MyTDumkOf3yX7Ujqg/ParA==
- SCHEMA1\_SERVICENAME=zlzzfnT7NMbIUf+PLBAzCw==
- SCHEMA1\_CONNECTSTRING=zlzzfnT7NMbIUf+PLBAzCw==
- SCHEMA1\_IP=/LGVQXLN5/luSe/nt1+jubXHhIrCOFHP2J/v73SmAeM=
- SCHEMA1\_PORT=1521
- SCHEMA1\_PARALLEL\_THREAD\_COUNT=
- SCHEMA1\_LOAD\_STATIC\_DATA\_REQUIRED=Y
- SCHEMA1\_DDL\_OBJECT\_COMPILATION\_REQUIRED=Y
- SCHEMA1\_FCIS\_SCHEMA=SMS
- SCHEMA1\_DESTINATION\_DIRECTORY=D:/FCIS/Output/SMS

#### **For Schema 2 Configuration,**

- SCHEMA2\_PASSWORD\_INPUT=N
- SCHEMA2\_USERNAME=XtE/PhiEOiCjH5xsk1LO+A==
- SCHEMA2\_PASSWORD=XtE/PhiEOiCjH5xsk1LO+A==
- SCHEMA2\_SERVICENAME=zlzzfnT7NMbIUf+PLBAzCw==
- SCHEMA2\_CONNECTSTRING=zlzzfnT7NMbIUf+PLBAzCw==
- SCHEMA2\_IP=/LGVQXLN5/luSe/nt1+jubXHhIrCOFHP2J/v73SmAeM=
- SCHEMA2\_PORT=1521
- SCHEMA2\_PARALLEL\_THREAD\_COUNT=
- SCHEMA2\_LOAD\_STATIC\_DATA\_REQUIRED=Y
- SCHEMA2\_DDL\_OBJECT\_COMPILATION\_REQUIRED=Y

- SCHEMA2\_FCIS\_SCHEMA=LOB
- SCHEMA2\_DESTINATION\_DIRECTORY=D:/FCIS/Output/DISTB

The above example specified only two schema, but the user can specify 'N' number of schemas.





Setting up Property File  
[October] [2024]  
Version 14.7.6.0.0

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