Oracle® FLEXCUBE Investor Servicing

FCIS Property File Setup

Release 14.7.7.0.0
G33204-01
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Oracle FLEXCUBE Investor Servicing FCIS Property File Setup, Release 14.7.7.0.0

G33204-01

Contents

Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

Purpose

This manual is designed to help acquaint you with the installation of **Oracle FLEXCUBE Investor Servicing** application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Users and Roles

Users	Roles
Implementation team	Implementation of Oracle FLEXCUBE Investor Servicing
Presales team	Install Oracle FLEXCUBE Investor Servicing for demo purpose
Bank personnel	Who installs Oracle FLEXCUBE Investor Servicing

Documentation Accessibility

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used are as follows:

Table 2 Acronyms and Abbreviations

Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing
OEM	Oracle Enterprise Manager

Table 2 (Cont.) Acronyms and Abbreviations

Abbreviation	Description
EMS	Electronic Messaging Service
EJB	Enterprise Java Bean
MDB	Message Driven Beans

1

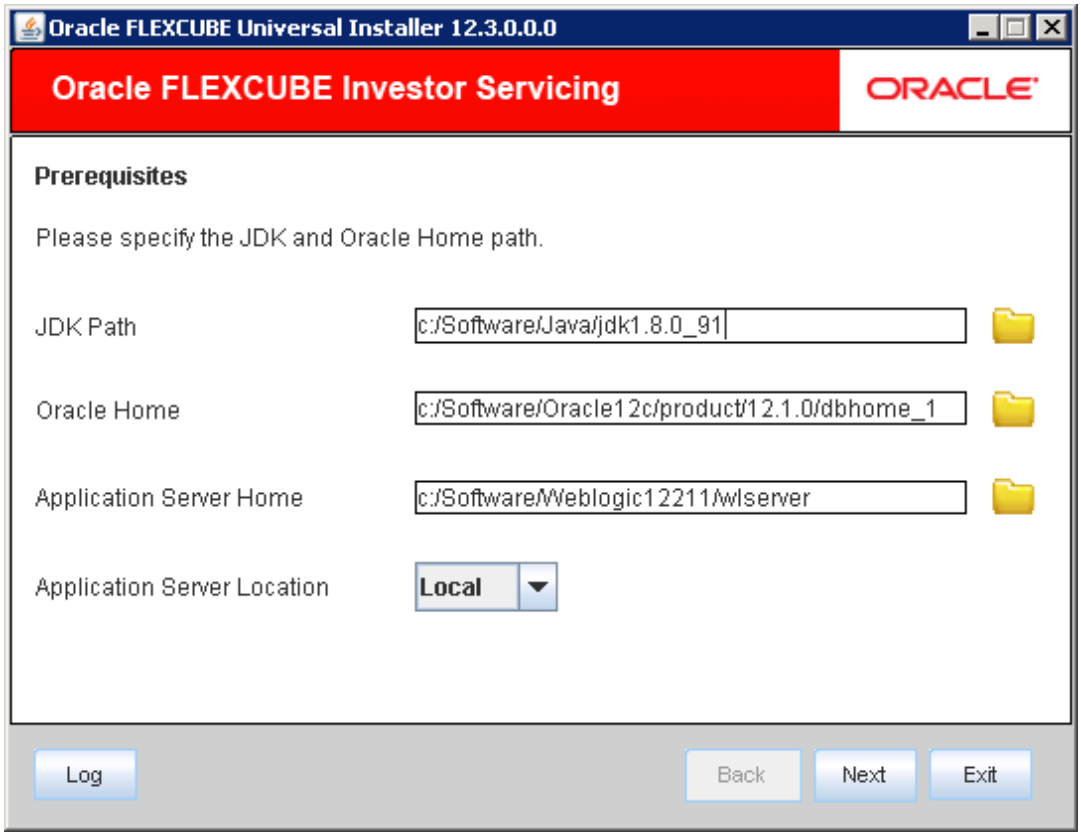
Create Property File

This topic describes the steps to create property files for **Oracle FLEXCUBE Investor Servicing** Application.

1. Start **Oracle FLEXCUBE Universal Installer**.

   The **Oracle FLEXCUBE Universal Installer** is displayed.

Figure 1-1 Oracle FLEXCUBE Universal Installer



2. On **Oracle FLEXCUBE Universal Installer** screen, enter the following details.

   Refer to the table for JDK and Oracle Home path.

Table 1-1 JDK and Oracle Home path

Field	Description
JDK Path	Provide Home folder path of JDK1.8.
Oracle Home	Provide home folder path of Oracle Client or Database.
Application Server Home	Provide home folder path of Application Server.

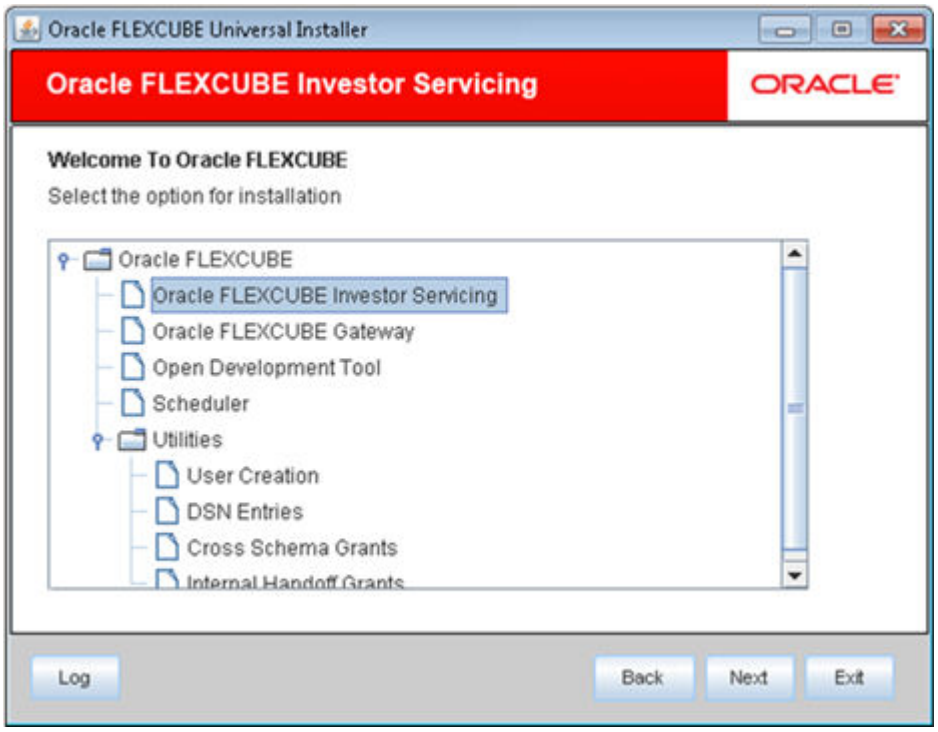
Table 1-1 (Cont.) JDK and Oracle Home path

Field	Description
Application Server Location	Select location of the application server either local or remote.

3. Click **Next** to select the option for installation.
4. Select **Oracle FLEXCUBE Investor Servicing** from the lists of **Oracle FLEXCUBE** options.

   The available options for installation are displayed.

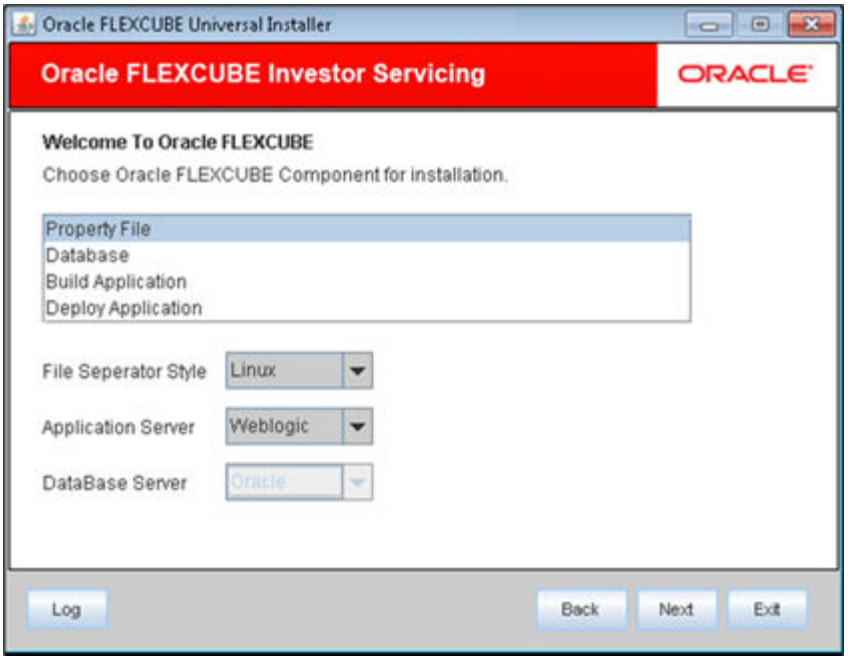
Figure 1-2 Option for Installation



5. Click **Next** to choose **Oracle FLEXCUBE** component for installation.
6. Select **Property File**.

   The available options **Property File**, **Database**, **Build Application**, and **Deploy Application** are displayed.

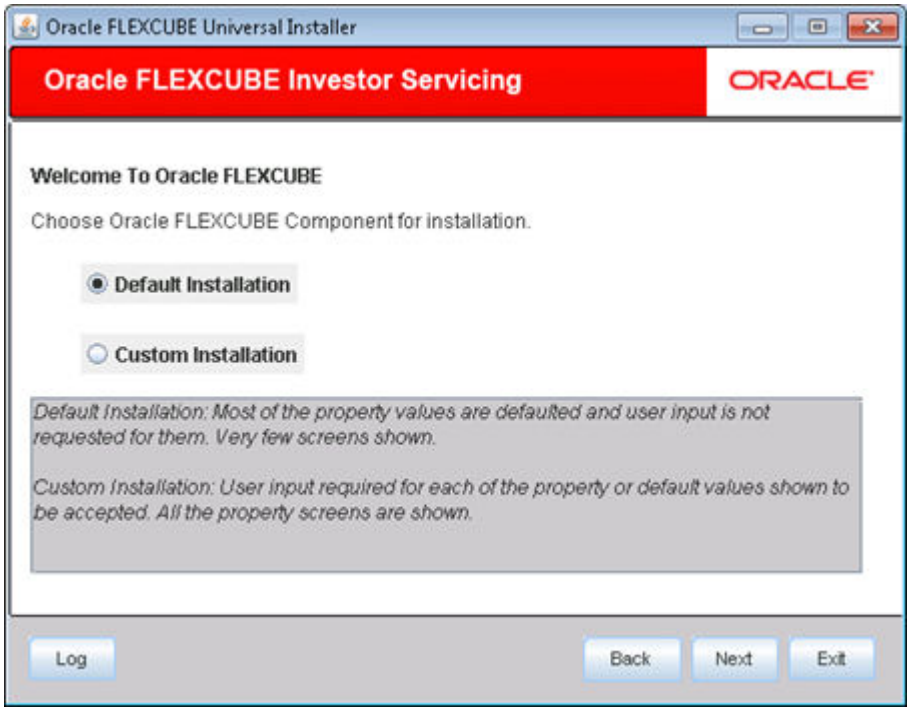
Figure 1-3 Choose property file for installation



7. Specify the operating system in which you are creating the property file. Choose the appropriate one from the drop-down list.
8. Specify the application server in which you are creating the property file. Choose the appropriate one from the drop-down list.
9. The system displays the database server in which you are creating the property file.
10. Click **Next** after the **Oracle FLEXCUBE** component details are specified.

    The following screen is displayed.

Figure 1-4 Choose Default Installation



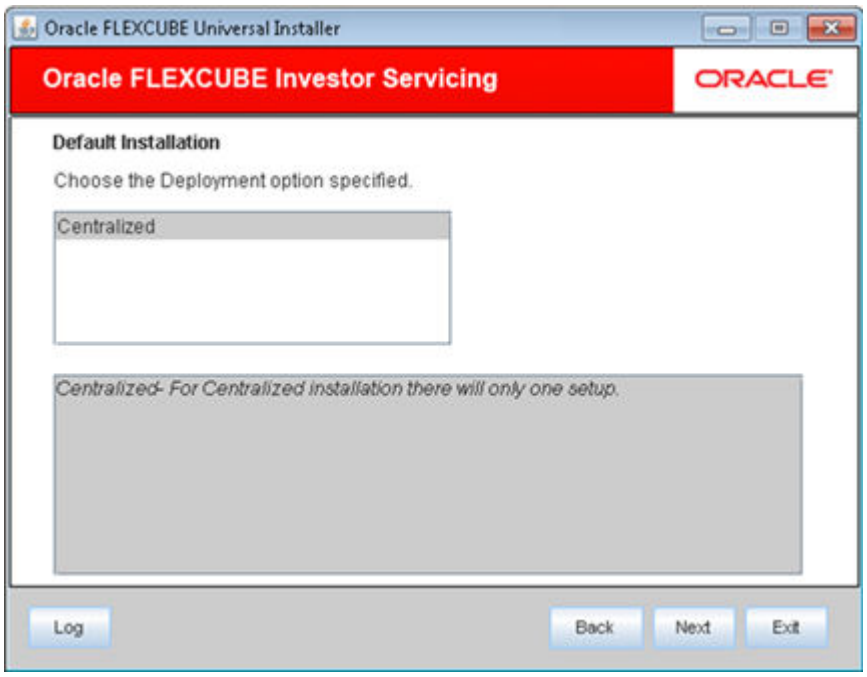
11. Choose either **Default Installation** or **Custom Installation**.

    Default Installation will need only the minimum list of details. Insulation plugin is deselected and SSO is by default **No** for this.

12. Click **Next** if you select **Default Installation** option.

    The following screen is displayed.

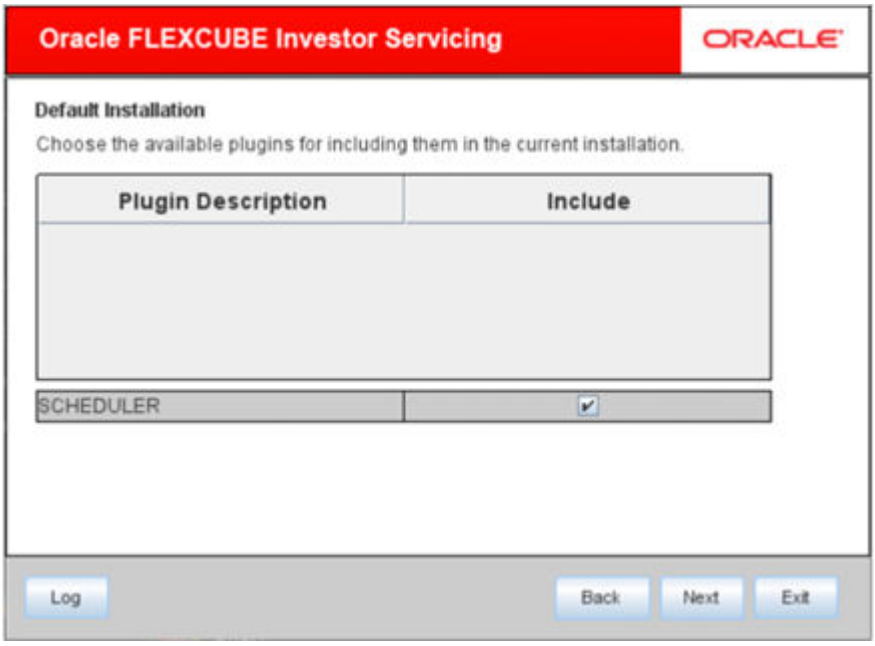
Figure 1-5 Choose Deployment Option



13. Choose the **Deployment** option specified in the **Default Installation** screen and click **Next**.
14. Choose the available plugins for including them in the current installation.

    The following screen is displayed.

Figure 1-6 Plugin Details

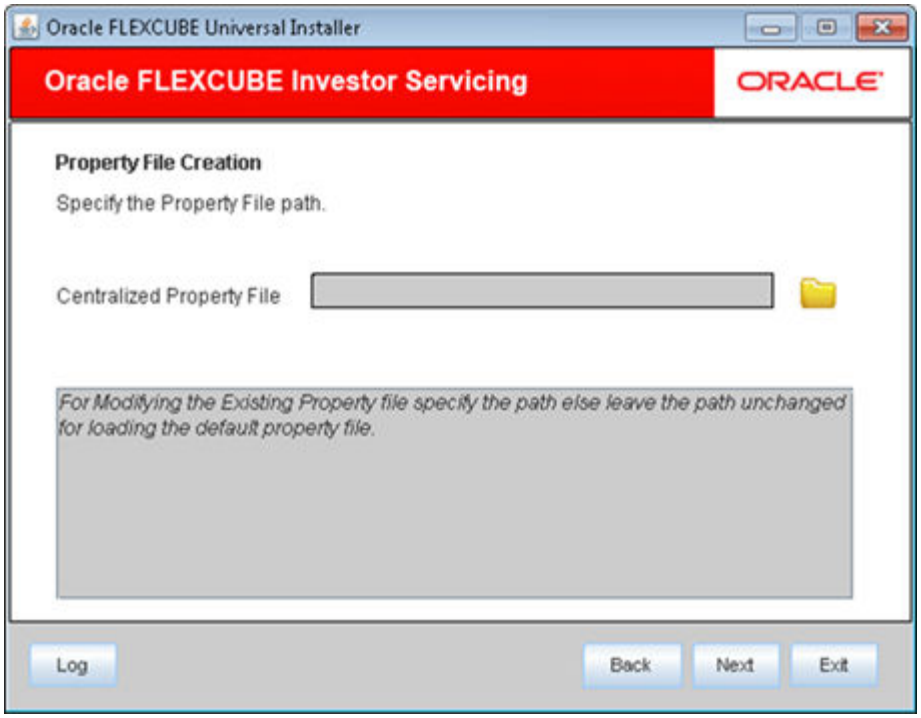


15. Select the **Custom Installation** option if there are any issues with the default values chosen and click **Next**.

    Load the property file created and correct it. The property file needs to be built before the EAR file.

    The Property File Creation screen is displayed.

Figure 1-7 Centralized Property File



16. On Property File Creation screen, specify the property file path in the **Centralized Property File**.

    If you create a new property file, leave the field blank. If you modify an existing property file, specify the location of the property file manually.

- Set up Oracle FLEXCUBE Investor Servicing Plugins
  This topic describes steps to create property files for **Oracle FLEXCUBE Investor Servicing** Application.
- Set Up Common Properties
  This topic describes the process of setting common properties of **Oracle FLEXCUBE Investor Servicing**.
- Set Up Language Properties
  This topic describes the process of setting language properties of **Oracle FLEXCUBE Investor Servicing**.
- Set Up CSS Style
  This topic describes the process of setting CSS Style.
- Set Up Hashing Algorithm Iteration Count
  This topic describes the method of setting hashing algorithm iteration count.
- Set Up Email Details
  This topic describes the method to configure email details.
- Set Up FCIS UBS Adapter Properties
  This topic describes the FCIS UBS Adapter properties setup.
- Configure Scheduler
  This topic describes the method to configure Scheduler.
- Set Up EMS Properties
  This topic describes the process of setting EMS Properties.

- Save Property File
  This topic describes the steps to save Property File.
- Configure Chatbot Properties
  This topic describes the method to configure Chatbot properties.

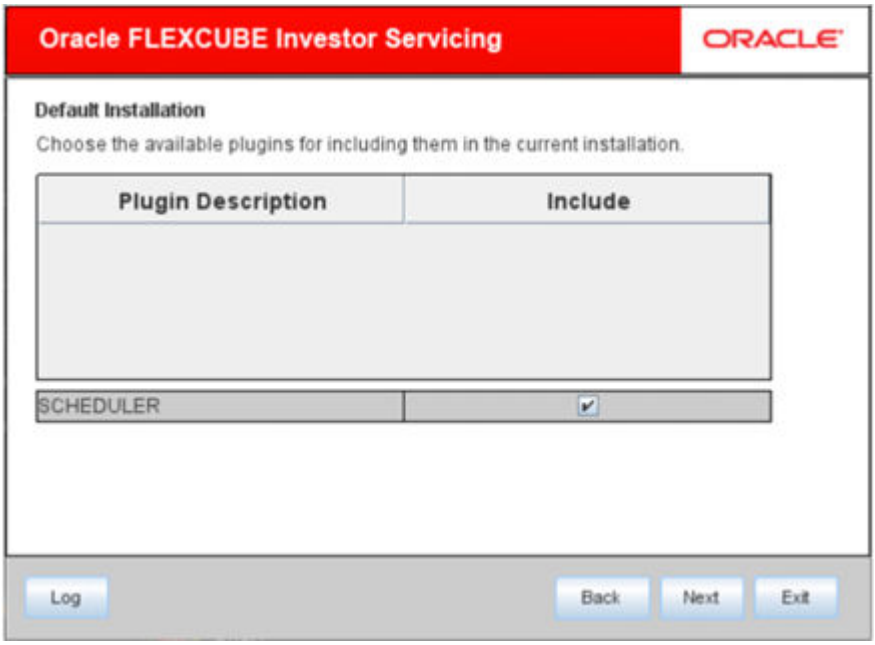
1.1 Set up Oracle FLEXCUBE Investor Servicing Plugins

This topic describes steps to create property files for **Oracle FLEXCUBE Investor Servicing** Application.

1. Choose the available plugins for including them in the current installation. Once you have selected the plugins, click **Next** and will be navigated to the **Common Properties** screen.

   The following screen is displayed.

Figure 1-8 Plugin Details

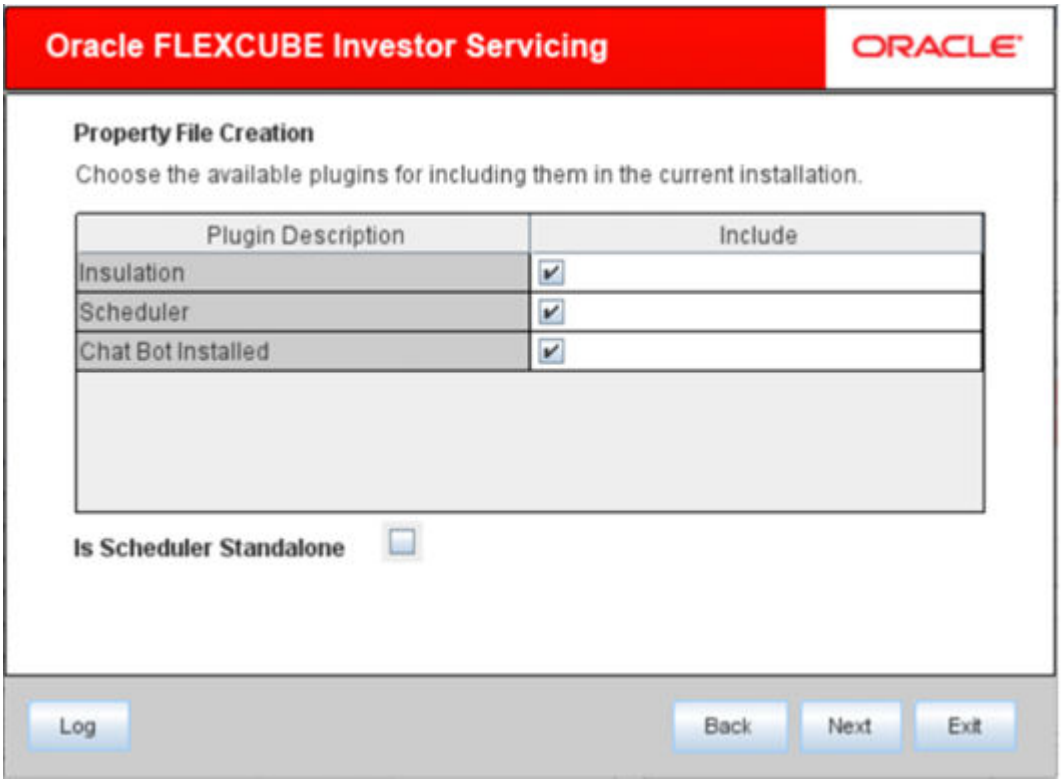


2. Select the plugins to include in the installation.

   The following plugins are available for **Oracle FLEXCUBE Investor Servicing**:

   - **Insulation**
   - **Scheduler**
   - **Chat Bot Installed**

Figure 1-9 Choose Plugins



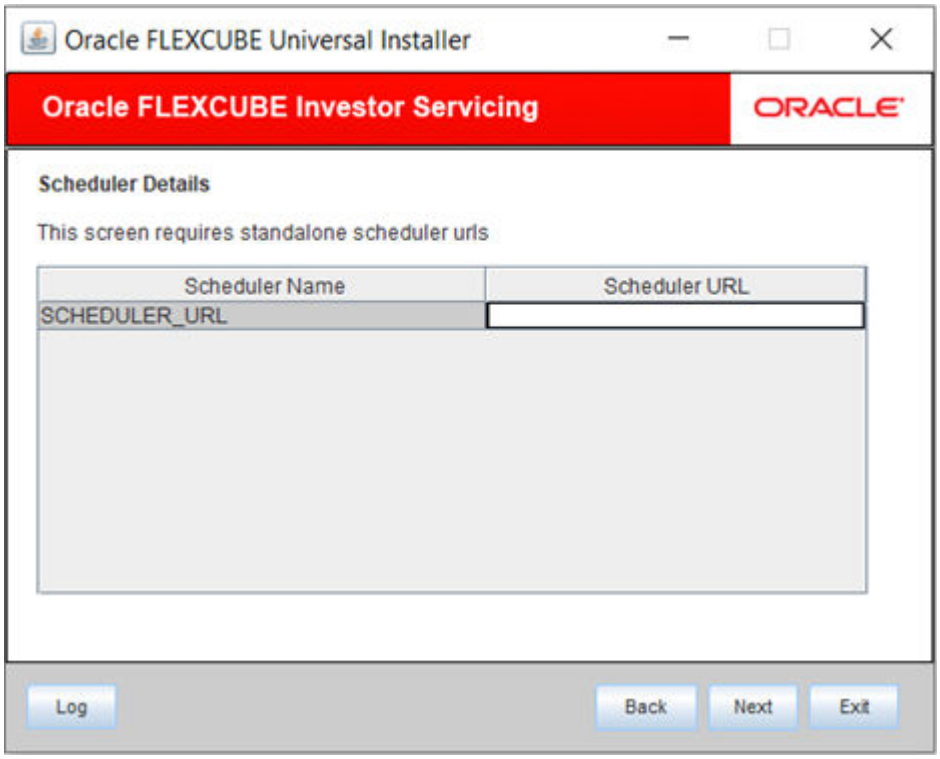
3. Select the option **Is Scheduler Standalone** if scheduler is required and click **Next**.

   For to choose **IS Standalone Scheduler**, one should go through scheduler option of building the EAR and deploy the EAR ahead of FCIS application.

4. On Scheduler Details screen, specify the **Scheduler URL**.

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

Figure 1-10 Scheduler Details



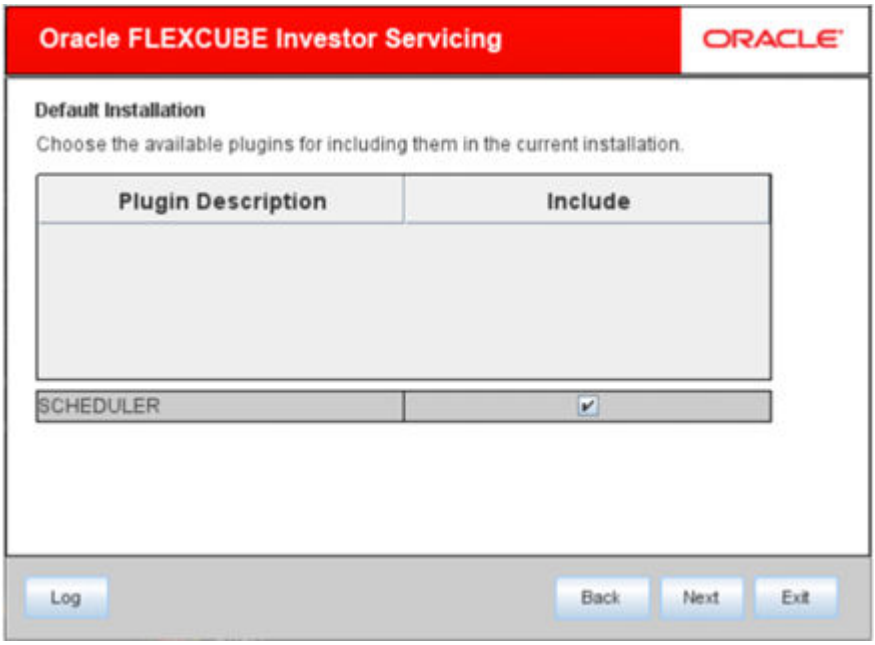
1.2 Set Up Common Properties

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

1. You can choose an option for modifying the common property values.

   The following screen is displayed.

Figure 1-11 Plugin Details



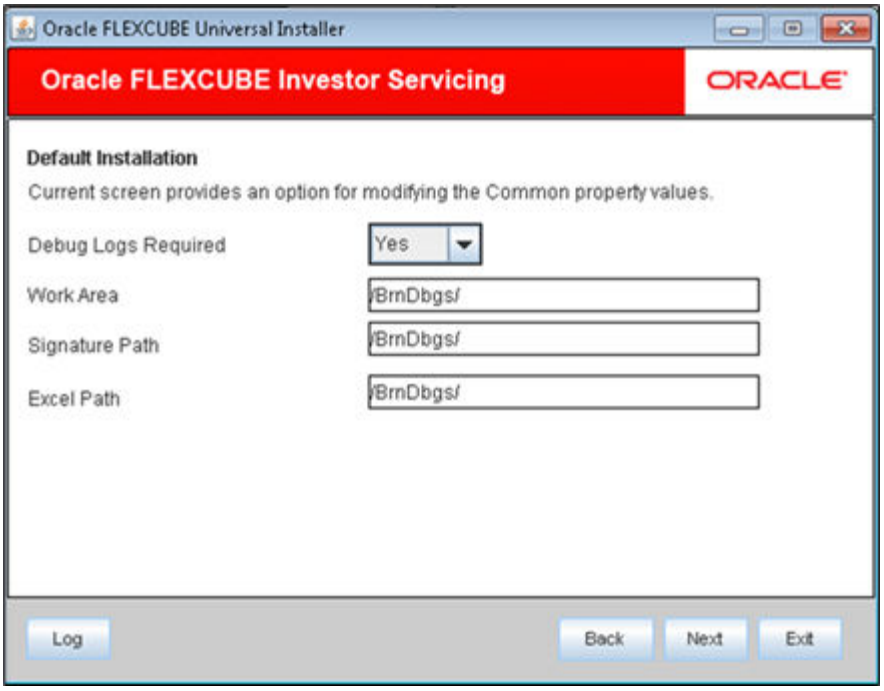
2. On **Common Properties** screen of **Default Installation**, enter the following details.

   Refer to the table for Common Properties.

Table 1-2 Common Properties screen in Default Installation

Field	Description
Debug Logs Required	Select **Yes** from the drop-down list if you require debug option. 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.

Figure 1-12 Common Property Values in Default Installation



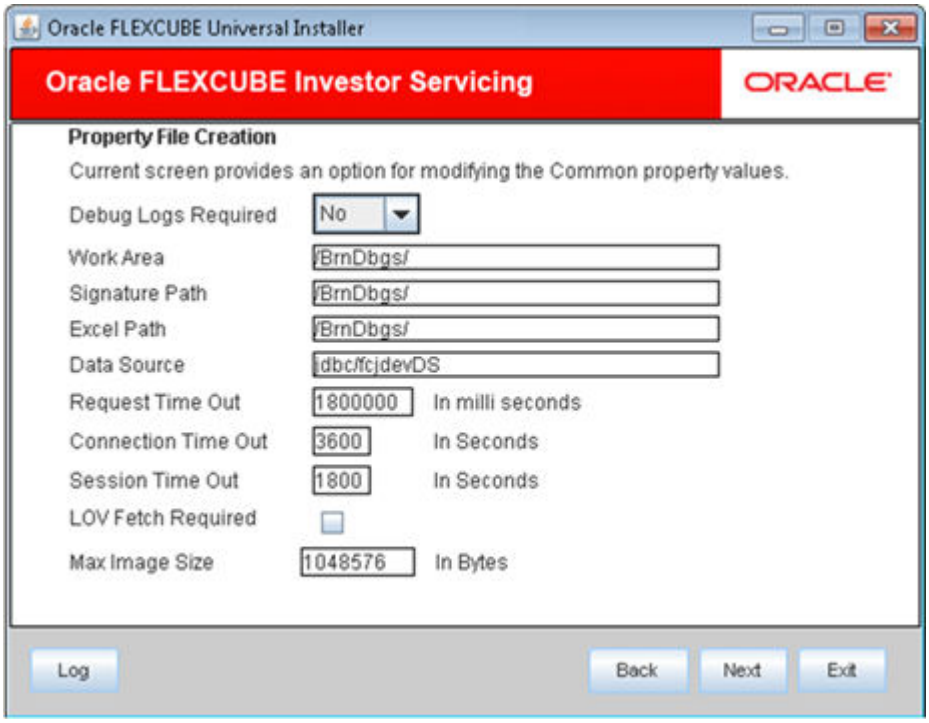
3. On **Common Properties** screen of **Custom Installation**, enter the following details.

   Refer to the table for Common Properties.

Table 1-3 Common Properties screen in Custom Installation

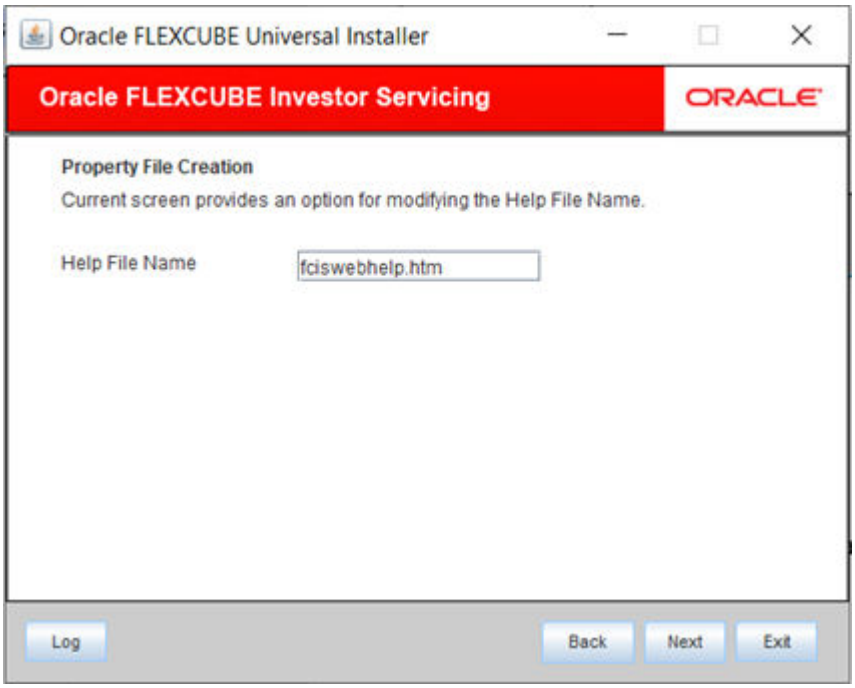
Field	Description
Debug Logs Required	Select **Yes** from the drop-down list if you require debug option. If you do not require debug option, select **No**.
Signature Path	Specify the location at which the signature images will be placed.
Excel Path	Specify the location at which the excel files will 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, the system will display the complete list of values that are matching the first three characters. If you do not check this box, the option lists will not display the matching values based on the first few characters. You need to specify the complete value against the field.

Figure 1-13 Common Property Values in Custom Installation



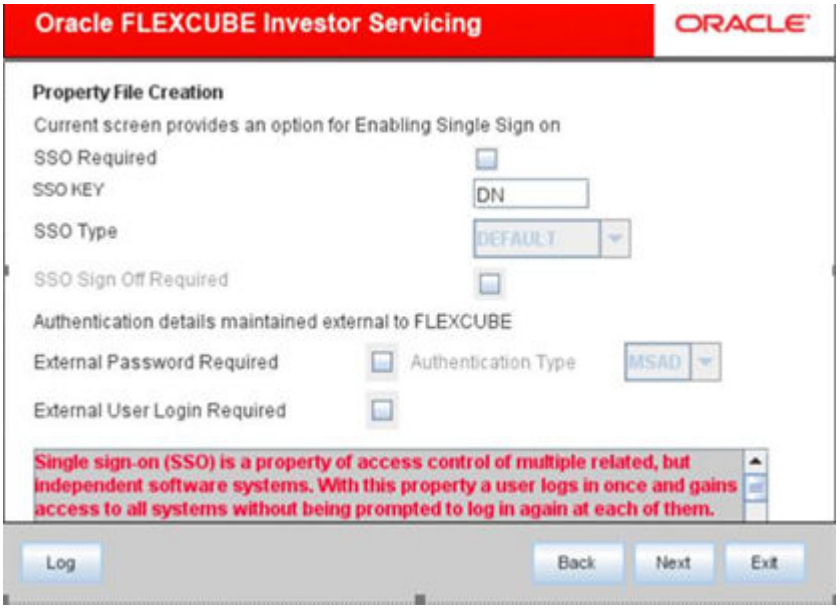
4. Click **Next** after the common properties details are specified.

Figure 1-14 Help File Name



5. You can modify the **Help File Name** using the **Help File Name** option.
6. Enter **Help File Name** and click **Next**.
7. In this screen, you are provided with an option to enable **Single Sign On**.

Figure 1-15 Enable Single Sign On



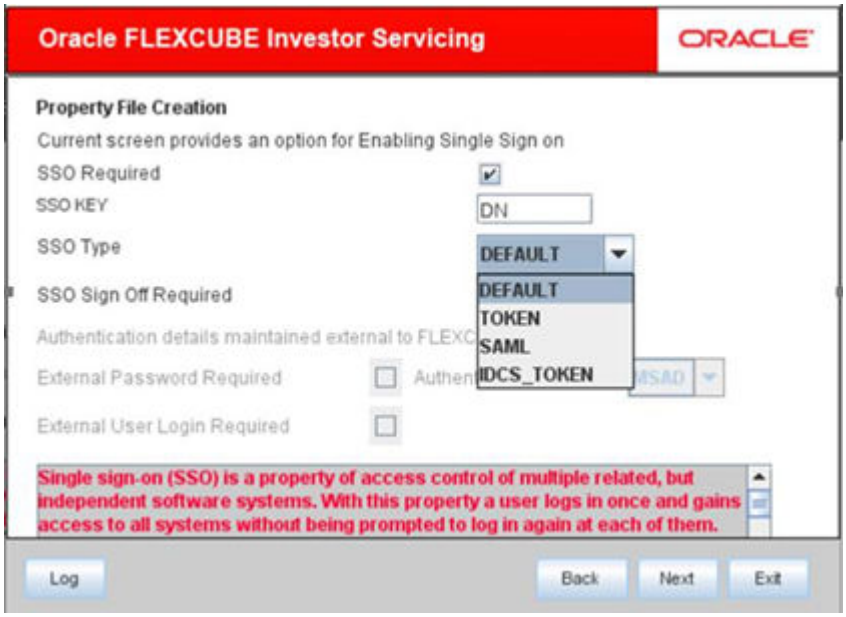
8. On **Single Sign On** screen, enter the following details.

   Refer to the table for Single Sign On details.

Table 1-4 Single Sign On details

Field	Description
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 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 the user is logged off from the application. Select the **SSO Sign Off Required** checkbox to enable the below fields: • **SSO_SIGNOFF_URL** • **SSO_SIGNOFF_POST_RD_URL** • **SSO_REQ_PARAM_KEYS**
SSO Type	Specify the SSO type. The options available are: • **DEFAULT** • **TOKEN** • **SAML** • **IDCS_TOKEN**

Figure 1-16 SSO Type List



9. Select the **DEFAULT** option in the **SSO Type**, when the External SSO system needs to send the SSO User ID mapped to the application User ID in the **SSO KEY** parameter.

   For Example: If **SSO KEY** maintained is DN and SSO_USERID is `fcubsuser@oracle.com`, then SSO system needs to send SSO USERID in request header DN parameter when request is send to the application.

   The SSO UserID needs to be maintained in **LDAP_USER** field of **User Maintenance (SMDUSRDF)** screen.

10. Select the **TOKEN** option in the **SSO Type**, if custom implementation is required for SSO authentication in the application. Select this option to process `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\sso\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.

11. Select the **SAML** option in the **SSO Type**, when the external system needs to send the SAML request xml in the **SSO KEY** parameter.

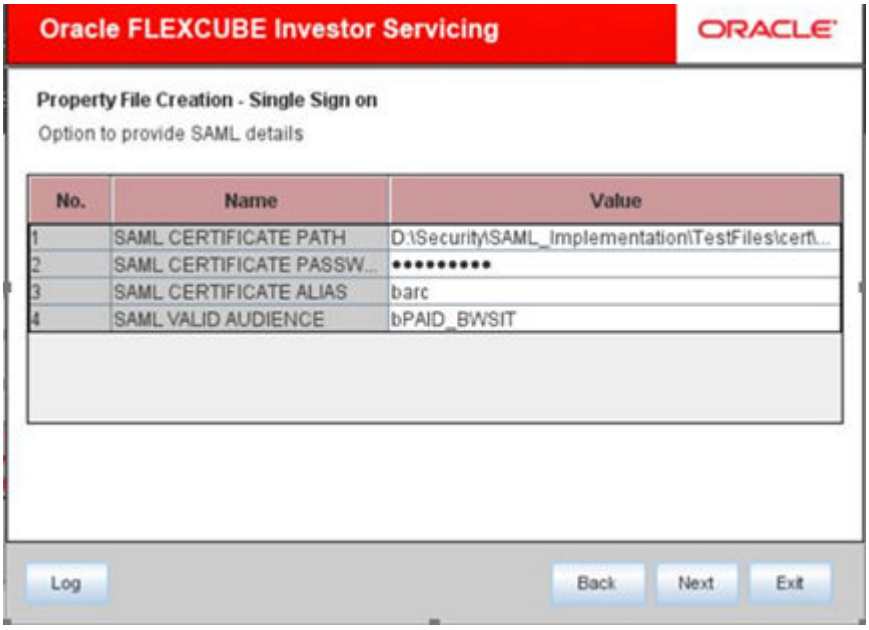
12. Enter the details such as **Certificate Path**, **Certificate Password**, **Certificate Alias**, and **Certificate Valid Audience** for the SAML case.

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

13. Application will allow the user to login with the userID sent in the SAML request after the successful SAML validations.

    The SAML UserID sent in the SAML request needs to be maintained in **LDAP_USER** field of **User Maintenance (SMDUSRDF)** screen.

Figure 1-17 SAML Details



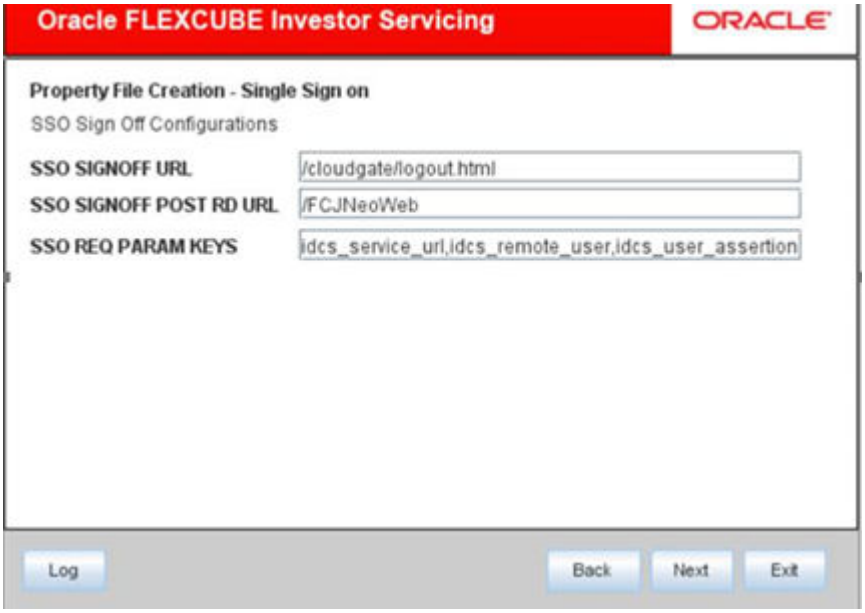
14. Select the **IDCS_TOKEN** option in the **SSO Type**, if **Oracle Identity Cloud Service (IDCS)** is used as the **Identify and Access Management** system in cloud deployments.
15. On **Single Sign Off Configurations** screen, enter the following details.

    Refer to the table for Single Sign Off configurations details.

Table 1-5 Single Sign Off configuration details

Field	Description
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`.

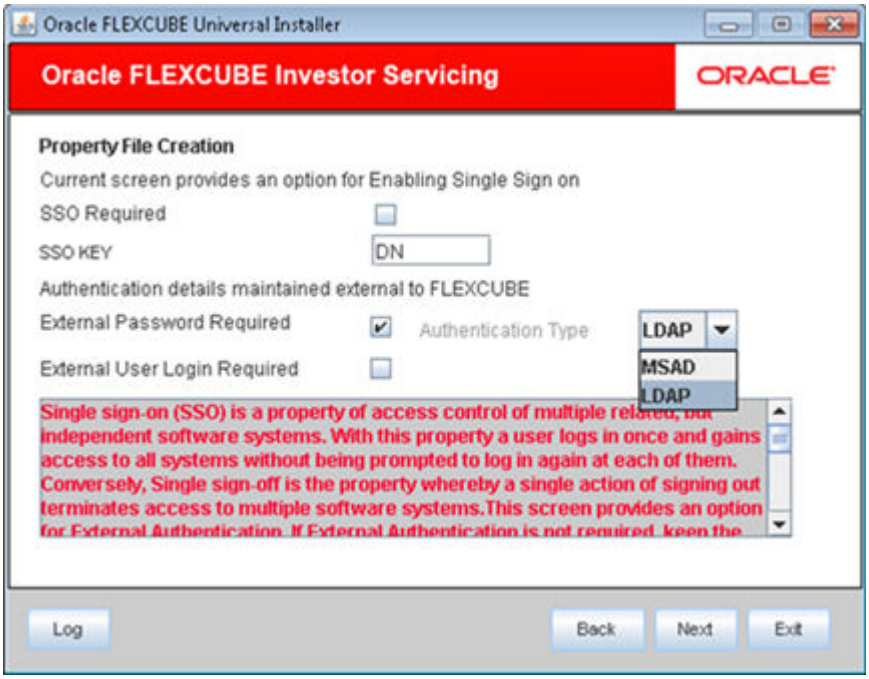
Figure 1-18 Single Sign Off Configurations



16. Select the **External Password Required** to allow the user login using MSAD/LDAP password irrespective of the user ID. This option is unchecked by default.

    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.

Figure 1-19 Authentication Details maintained external to FLEXCUBE



17. Select the **External User Login Required** to enable user login using MSAD/LDAP user ID.

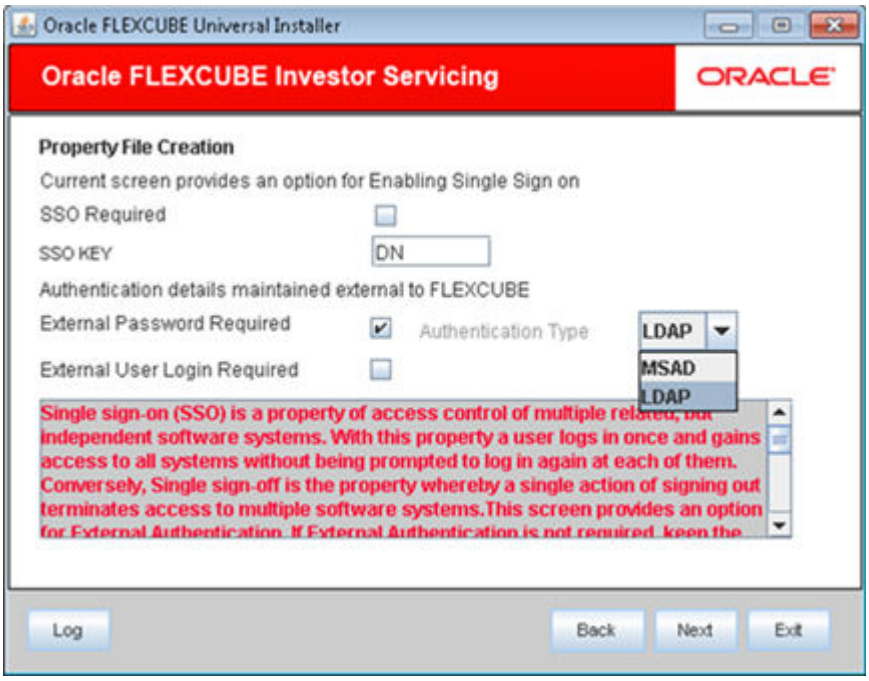
    If you check this box, the user can log in using MSAD/LDAP server user ID as well as FCIS user ID.

18. Select the **Authentication Type** from the adjoining drop-down list. This is the type of external server that is used.

    The following options are available:

    - **Microsoft Active Directory (MSAD)** The default option is **MSAD**. However, you can change it.
    - **Lightweight Directory Access Protocol (LDAP)**

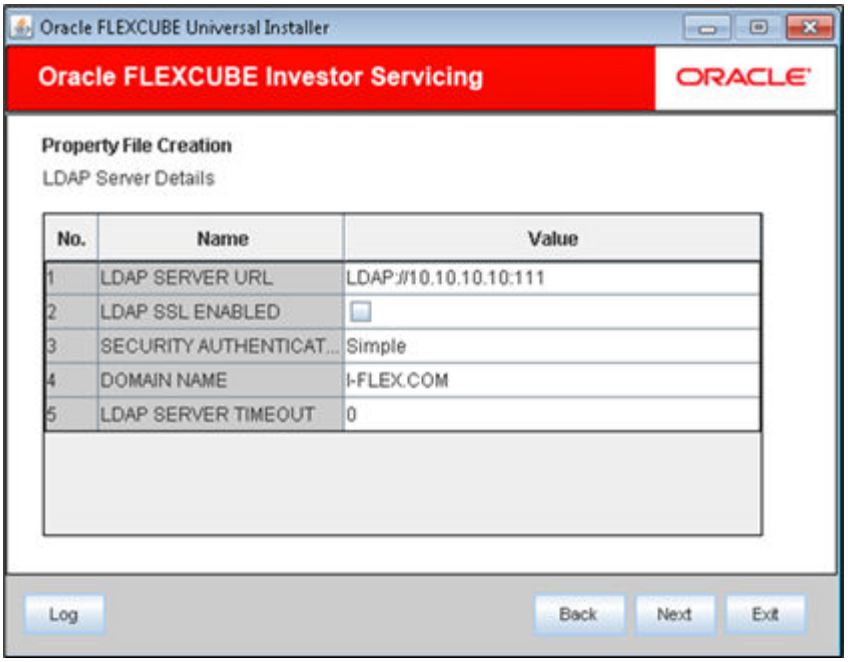
Figure 1-20 Authentication Type



19. Choose the **Authentication Type** as **LDAP** and click **Next**.

    The **LDAP** server details screen is displayed.

Figure 1-21 LDAP Server Details



20. On **LDAP Server Details** screen, enter the following details.

    Refer to the table for LDAP Server details.

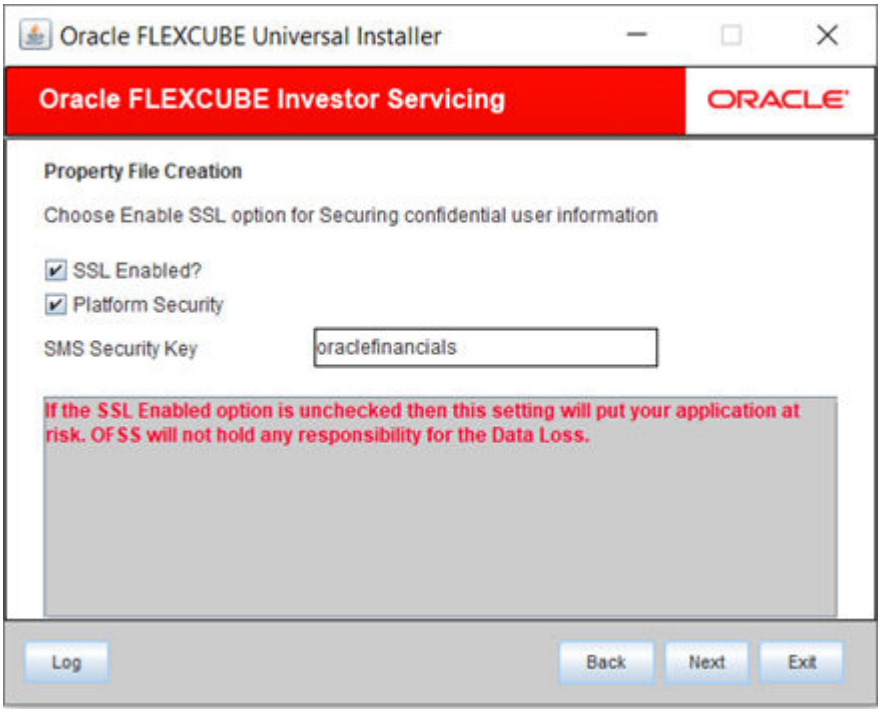
Table 1-6 LDAP Server details

Field	Description
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** • **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**: • 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.

21. Click **Next** after the LDAP server details are specified.

The following screen is displayed.

Figure 1-22 Enable SSL for Securing Confidential User Information

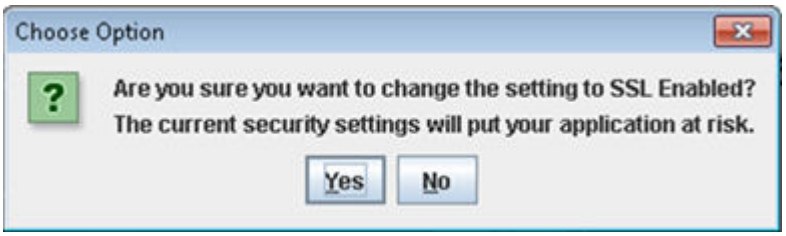


22. Select the **SSL Enabled** option for securing confidential user information.

    If SSL is not enabled, the **Installer** will display a warning message. However, it is recommended to enable SSL.

    The following message window is displayed.

Figure 1-23 SSL Enabled Information Message

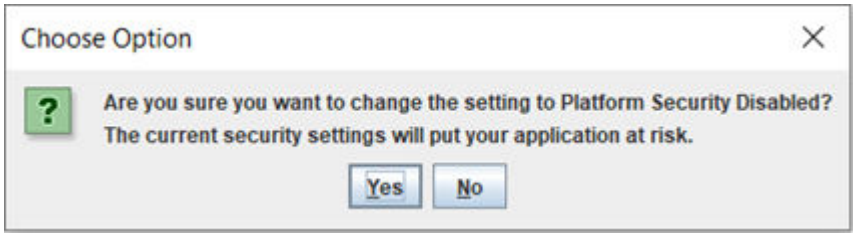


23. Select the **Platform Security** option and is available only for weblogic.

    If **Platform Security** is checked for weblogic, the symmetric key is not stored in the property file for security reasons. If **Platform Security** is enabled during property file creation, then DB details should be the actual database in which the application to be deployed.

    If **Platform Security** is not checked, the symmetric key is available in the property file and a warning message is displayed to the user.

Figure 1-24 Platform Security Disabled Information Message



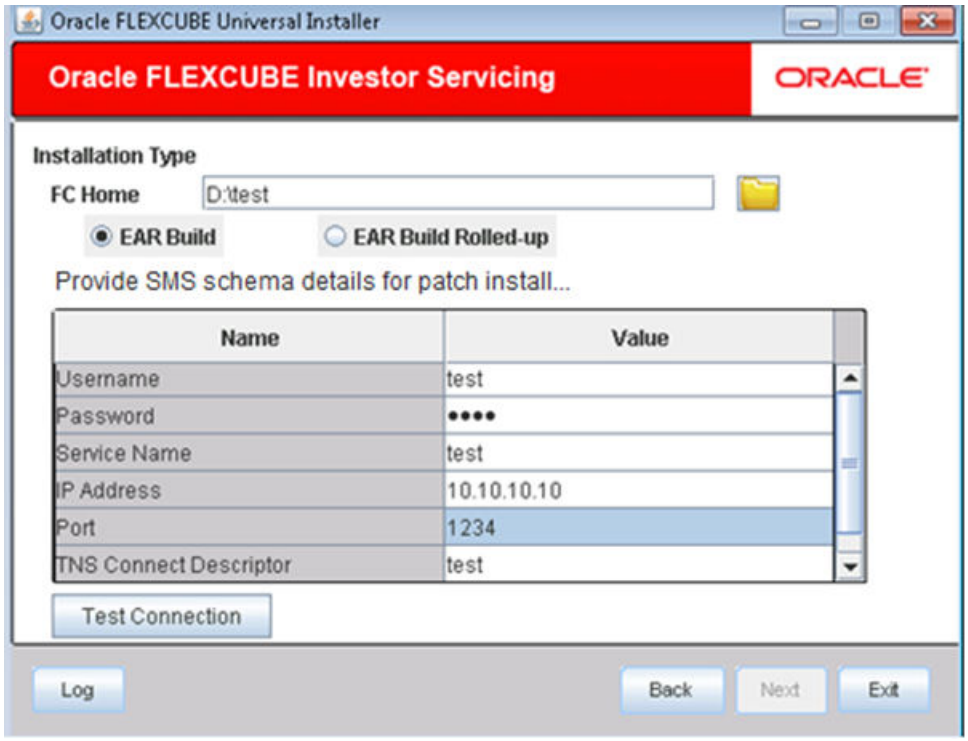
24. Specify the **SMS Security Key** for the Encryption.

    In this case, it is `oraclefinancials`.

25. Click **Next** after specifying the SSL details.

    The following screen is displayed.

Figure 1-25 SMS Schema Details

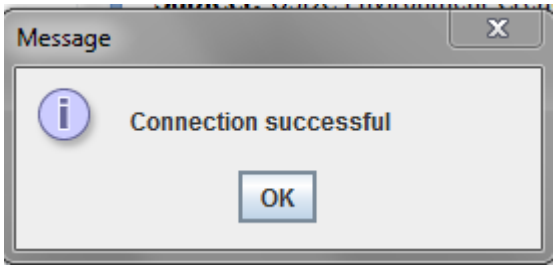


26. Enter the source path in **FC Home** and provide the SMS schema details for patch installation.

27. Click **Test Connection** to test the connection with the Application server.

    On successful connection, the following message is displayed.

Figure 1-26 Information Message on Successful Connection



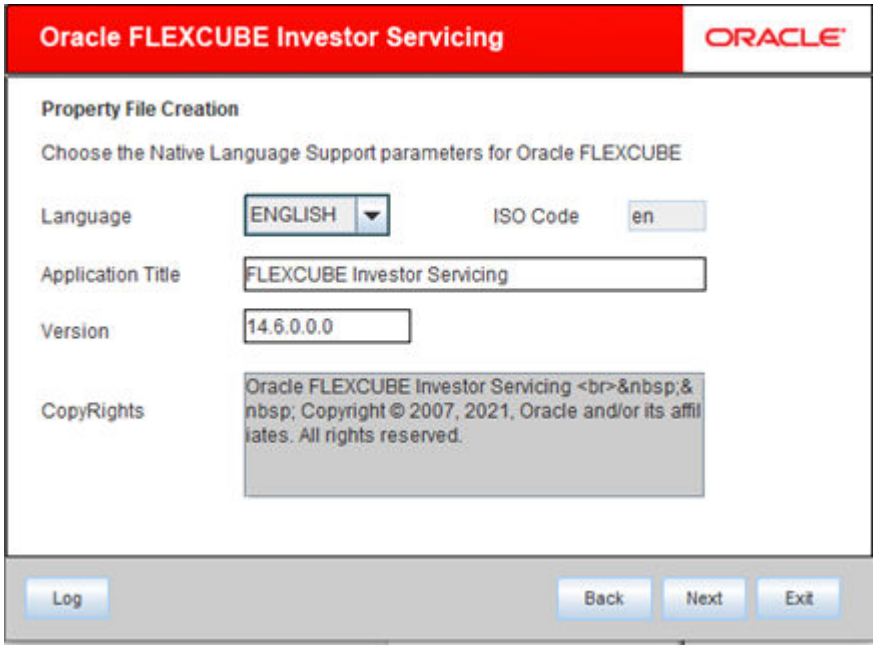
1.3 Set Up Language Properties

This topic describes the process of setting language properties of **Oracle FLEXCUBE Investor Servicing**.

1. Choose the native language support parameters for **Oracle FLEXCUBE**.

   The following screen is displayed.

Figure 1-27 Language Properties



2. On **Language Properties** screen, enter the following details.

   Refer to the table for Language Properties.

Table 1-7 Language Properties

Field	Description
Language	Specify the language to use in **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. **Example**: **Oracle FLEXCUBE Investor Servicing**
Version	Specify the Application version. **Example**: 14.6.0.0.0
Copy Rights	Specify the copyright details. **Example**: Copyright@2007-2021, **Oracle Financial Services Software Limited**, All rights reserved.

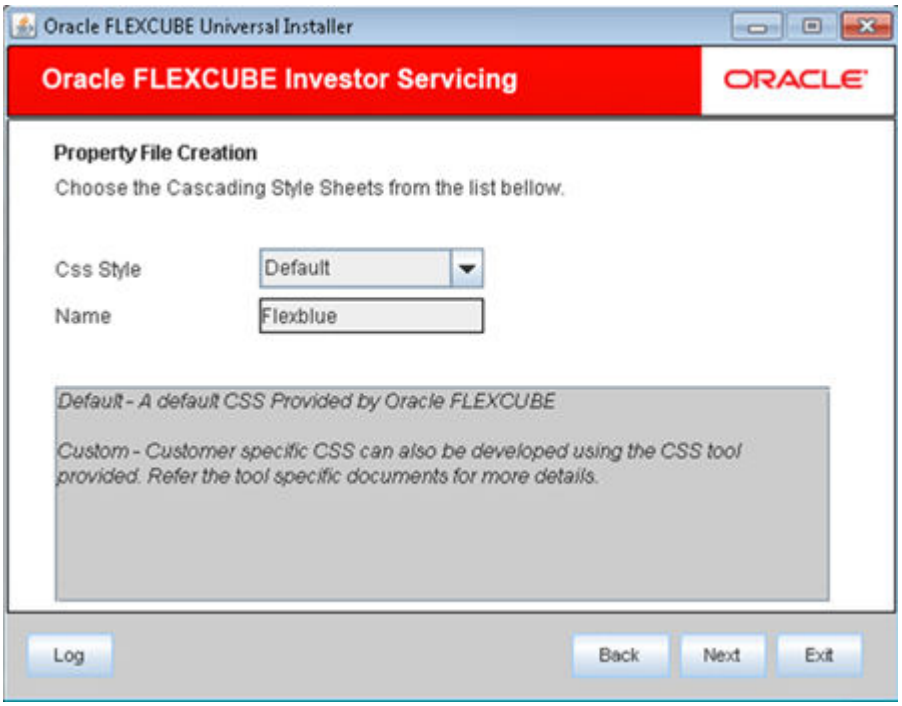
1.4 Set Up CSS Style

This topic describes the process of setting CSS Style.

1. Choose the Cascading Style Sheets.

   The following screen is displayed.

Figure 1-28 Cascading Style Sheet



2. On **Cascading Style Sheet** screen, enter the following details.

   Refer to the table for CSS details.

Table 1-8 CSS Details

Field	Description
CSS Style	Specify the CSS style to be used. You can choose one of the following CSS styles: • **Default** • **Custom** Choose **Default** option to apply the default style provided along with **Oracle FLEXCUBE Investor Servicing**. Choose **Custom** option to apply a custom style.
Name	Specify the name of the CSS style.

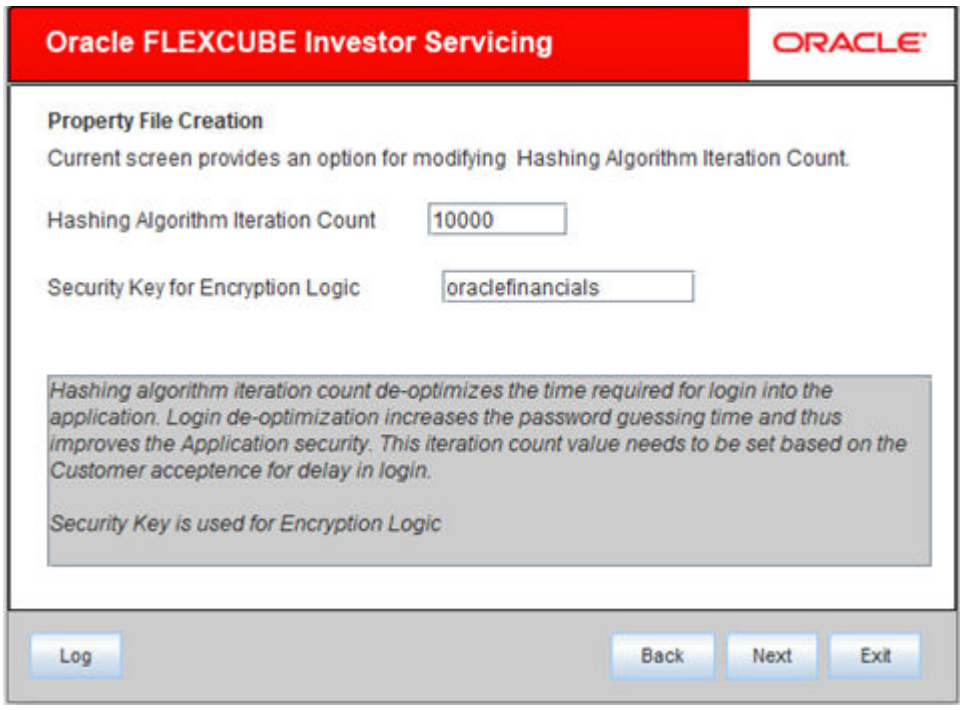
1.5 Set Up Hashing Algorithm Iteration Count

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

1. You are provided with an option to modify Hashing Algorithm Iteration Count.

   The following screen is displayed.

Figure 1-29 Hashing Algorithm Iteration Count



2. On **Hashing Algorithm Iteration Count** screen, enter the following details.

   Refer to the table for Hashing Algorithm Iteration Count details.

Table 1-9 Hashing Algorithm Iteration Count Details

Field	Description
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.

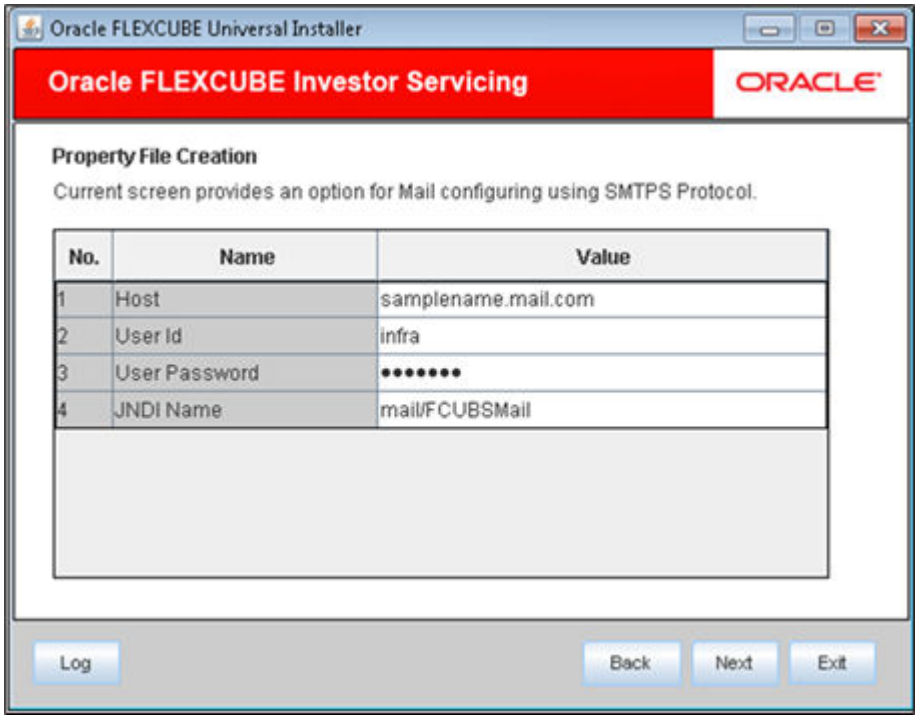
1.6 Set Up Email Details

This topic describes the method to configure email details.

1. You are provided with an option to configure Email using SMTPS Protocol.

   The following screen is displayed.

Figure 1-30 Email Configuration



2. On **Email Configuration** screen, enter the following details.

   Refer to the table for Email Configuration details.

Table 1-10 Email Configuration details

Field	Description
Host	Specify the SMTP host name.
User ID	Specify the user ID.
User Password	Specify the user password.
JNDI Name	Specify the JNDI name.

1.7 Set Up FCIS UBS Adapter Properties

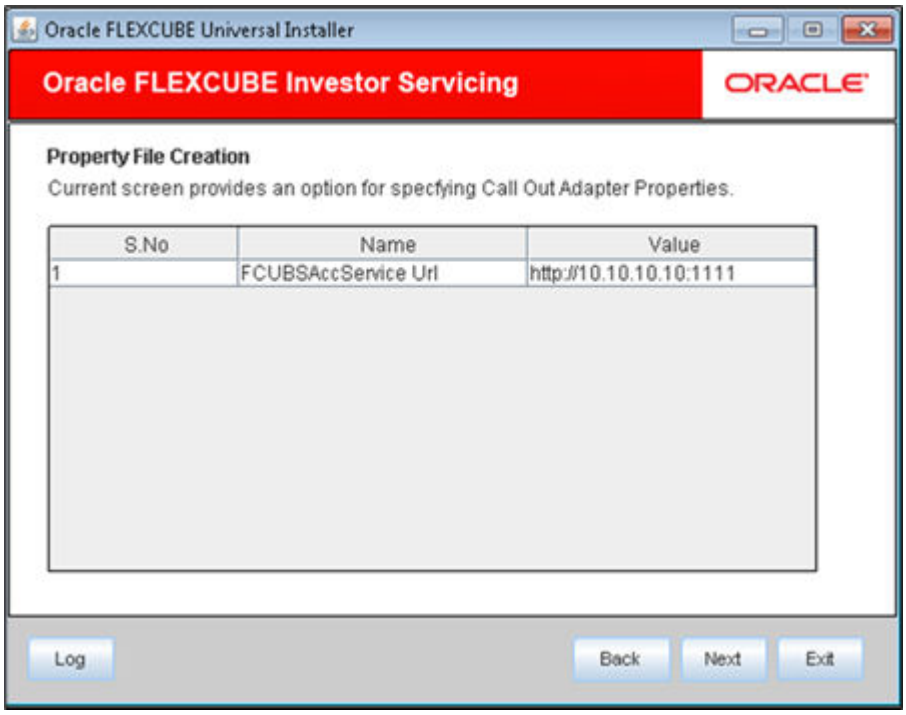
This topic describes the FCIS UBS Adapter properties setup.

1. Specify the Call Out Adapter Properties.

   This is applicable only for **Custom Installation**.

   The following screen is displayed.

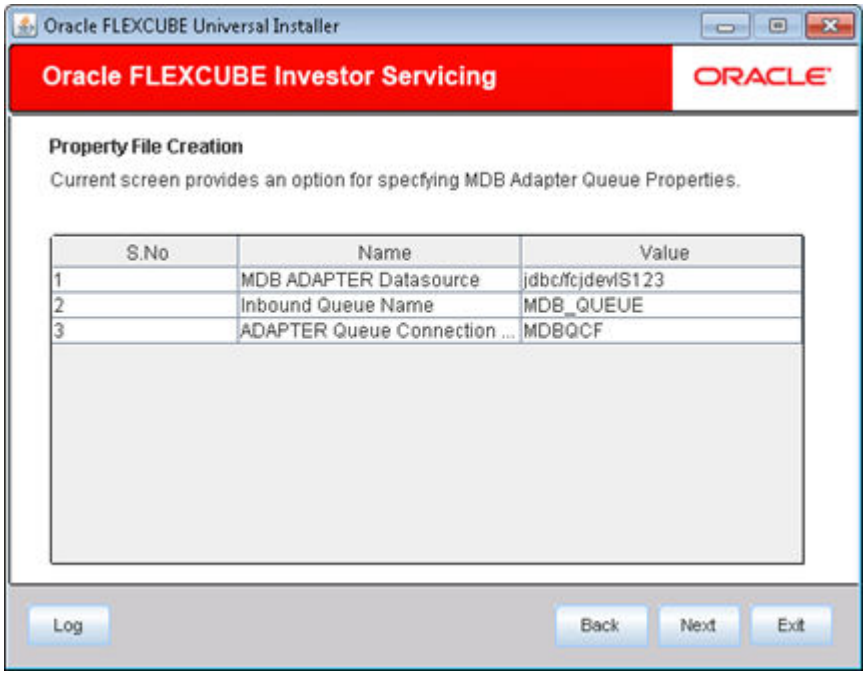
Figure 1-31 Call Out Adapter Properties



2. Specify the **MDB Adapter Queue** properties and click **Next**.

   The following screen is displayed.

Figure 1-32 MDB Adapter Queue Properties



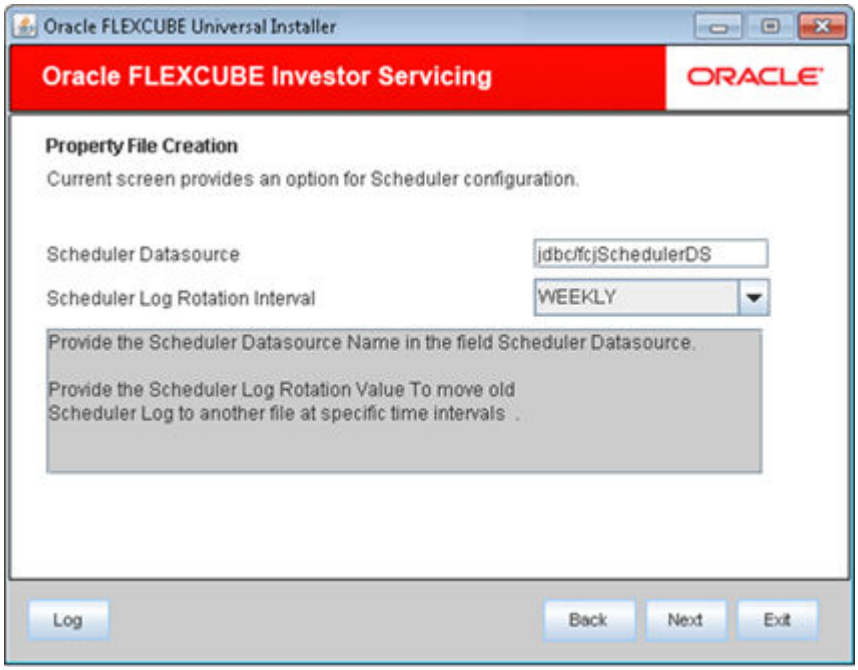
1.8 Configure Scheduler

This topic describes the method to configure Scheduler.

1. You are provided with an option to configure Scheduler. This is applicable only for **Custom Installation**.

   The following screen is displayed.

Figure 1-33 Scheduler Datasource



2. Specify the **Scheduler Datasource** which **Oracle FLEXCUBE Investor Servicing** will access.
3. Specify the **Scheduler Log Rotation Interval** to move old Scheduler log to another file at specific time intervals and click **Next**.

Figure 1-34 Scheduler Destination Queue Configuration

4. On **Scheduler Destination Queue Configuration**, enter the following details.

   Refer to the table for Common Properties.

Table 1-11 Scheduler Destination Queue Configuration

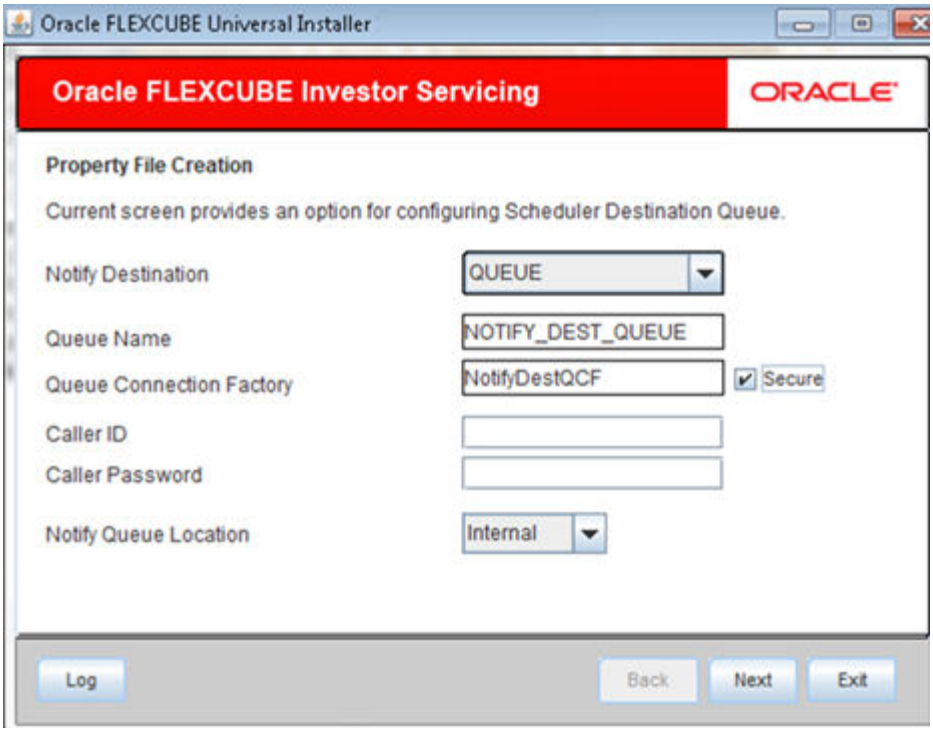
Field	Description
Notify Destination	Specify the notify destination. Choose one of the following options: • **QUEUE** • **TOPIC**
Queue Name	Set **NOTIFY_DEST_QUEUE** as the destination queue name.
Queue Connection Factory	Set **NotifyDestTCF** as the queue connection factory.
Notify Queue Location	Select notify queue location from drop-down list. The list displays the following values: • **Internal** • **External** **Note**: For Oracle WebLogic Application server, the **Notify Queue Location** should be selected as **Internal**.

5. Select the **Secure** checkbox 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**.

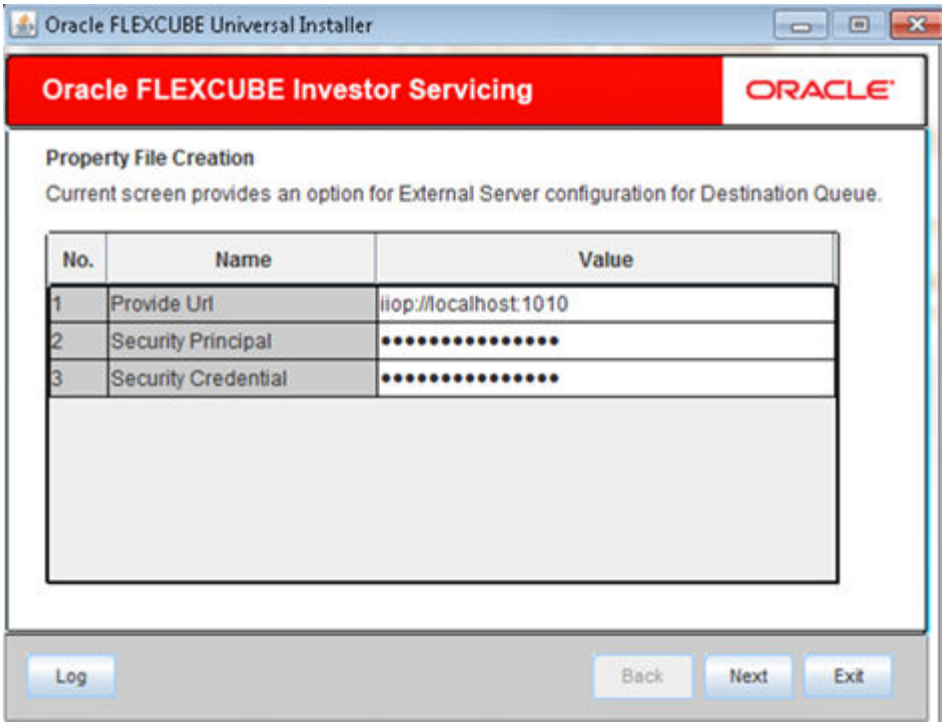
   If the queue connection factory is not secured, i.e., if you have not selected the box **Secure**, the installer will not display the fields **Caller ID** and **Caller Password**. You need not to provide these details in this case.

Figure 1-35 Secure Enabled_Scheduler Destination Queue Configuration



6. Specify the **Caller ID** for the secured queue connection factory.
7. Specify the password for the caller ID in the **Caller Password** to access the secured queue connection factory.
8. If you choose **External** in the **Notify Queue Location**, you will be provided with an option to configure external server for destination queue.

Figure 1-36 External Server configuration for Destination Queue



9. On **External Server configuration for Destination Queue** screen, enter the following details.

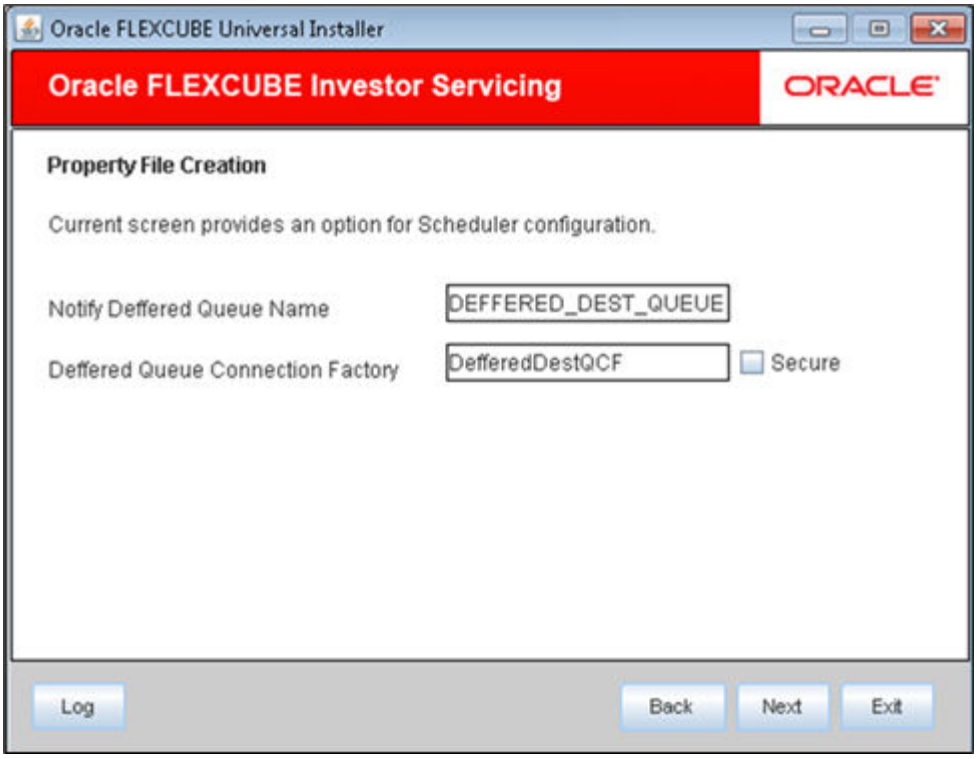
   Refer to the table for external queue details.

Table 1-12 External Server configuration for Destination Queue

Field	Description
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.

10. Click **Next** and you will be provided with an option to configure Scheduler. If you choose **Internal** as the **Notify Queue Location**, you will be directly navigated to this screen.

Figure 1-37 Scheduler Configuration



11. On **Scheduler Configuration** screen, enter the following details.

    Refer to the table for Scheduler Configuration.

Table 1-13 Scheduler Configuration

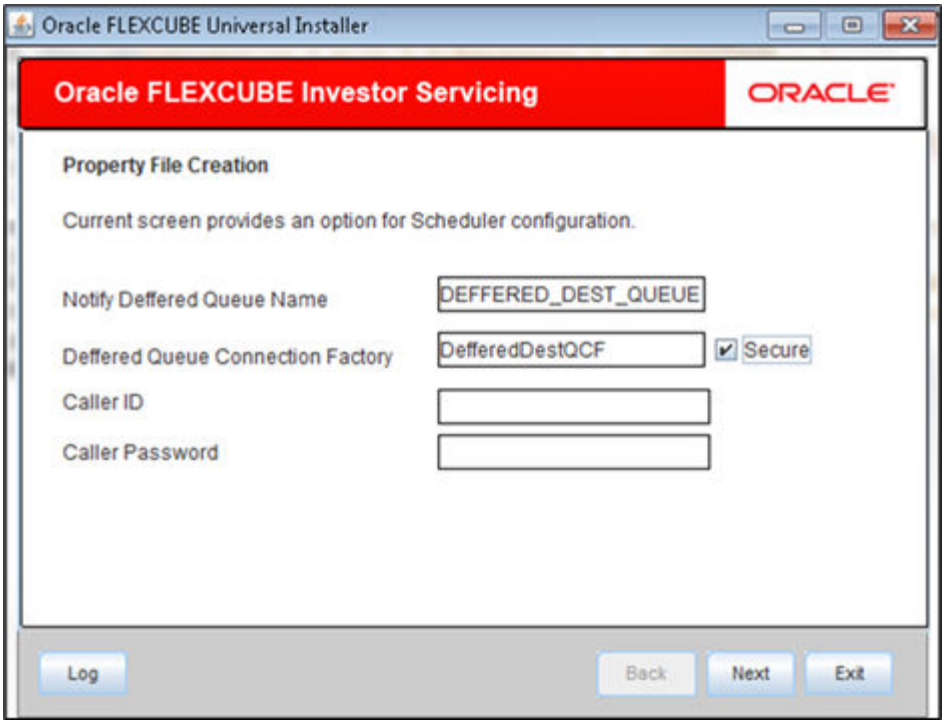
Field	Description
Notify Deffered Queue Name	Set **DEFFERED_DEST_QUEUE** as the notify deffered queue name.
Deffered Queue Connection Factory	Set **DefferedDestQcf** as the deffered queue connection factory.

12. Select the **Secure** checkbox to indicate that it is a secured deffered queue connection factory.

    If you check this box, you will be prompted to specify the **Caller ID** and **Caller Password**.

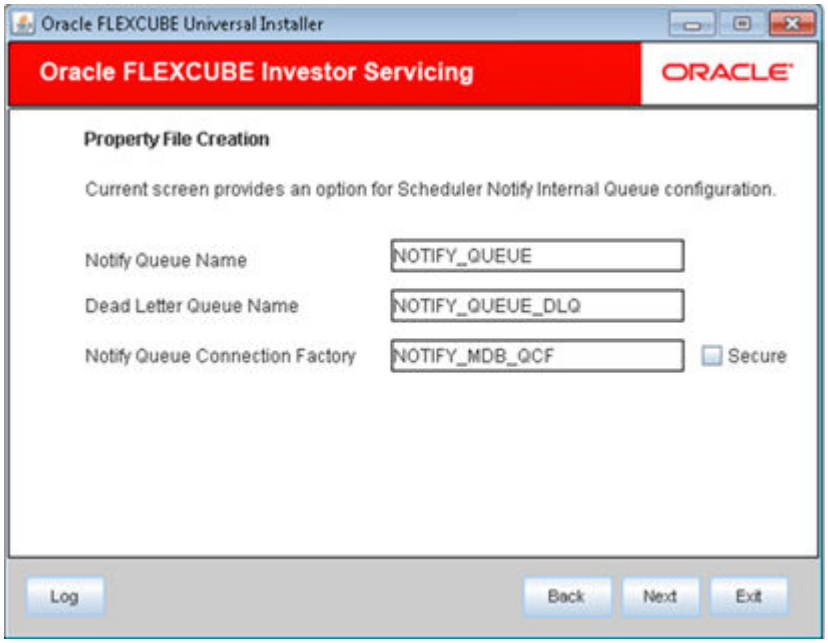
    If you have not selected the box **Secure**, the installer will not display the fields **Caller ID** and **Caller Password**. You need not to provide these details in this case.

Figure 1-38 Secure Enabled Scheduler Configuration



13. Specify the **Caller ID** for the secured deffered queue connection factory.
14. Specify the password for the caller ID in the **Caller Password** to access the secured deffered queue connection factory.
15. If you choose **Internal** in the **Notify Queue Location**, you will be provided with an option for Scheduler Notify Internal Queue Configuration.

Figure 1-39 Scheduler Notify Internal Queue Configuration



16. On **Scheduler Notify Internal Queue Configuration** screen, enter the following details.

    Refer to the table for internal queue details.

Table 1-14 Scheduler Notify Internal Queue Configuration.

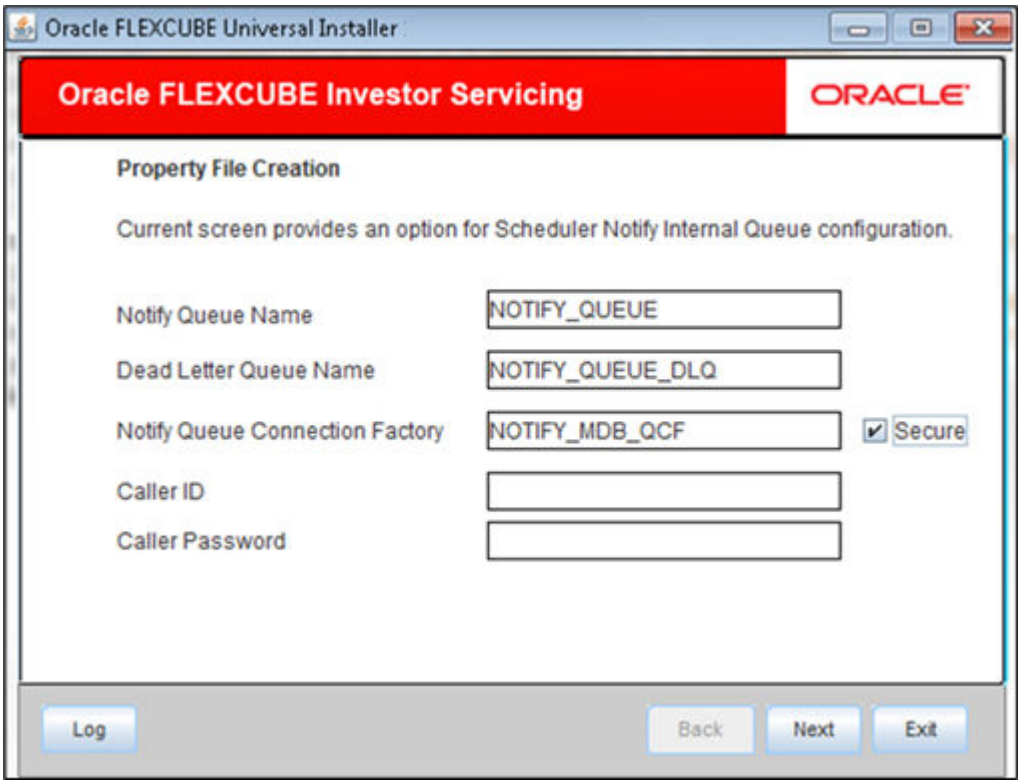
Field	Description
Notify Queue Name	Set **NOTIFY_QUEUE** as the notify queue name.
Dead Letter Queue Name	Set **NOTIFY_QUEUE DLQ** as the dead letter queue name.
Notify Queue Connection Factory	Set **NOTIFY_MDB_QCF** as the notify queue connection factory.

17. Select the **Secure** checkbox to indicate that it is a secured notify queue connection factory.

    If you check this box, you will be prompted to specify the **Caller ID** and **Caller Password**.

    If you have not selected the box **Secure**, the installer will not display the fields **Caller ID** and **Caller Password**. You need not to provide these details in this case.

Figure 1-40 Secure Enabled_Scheduler Notify Internal Queue Configuration



18. Specify the **Caller ID** for the secured notify queue connection factory.
19. Specify the password for the caller ID in the **Caller Password** to access the secured notify queue connection factory.

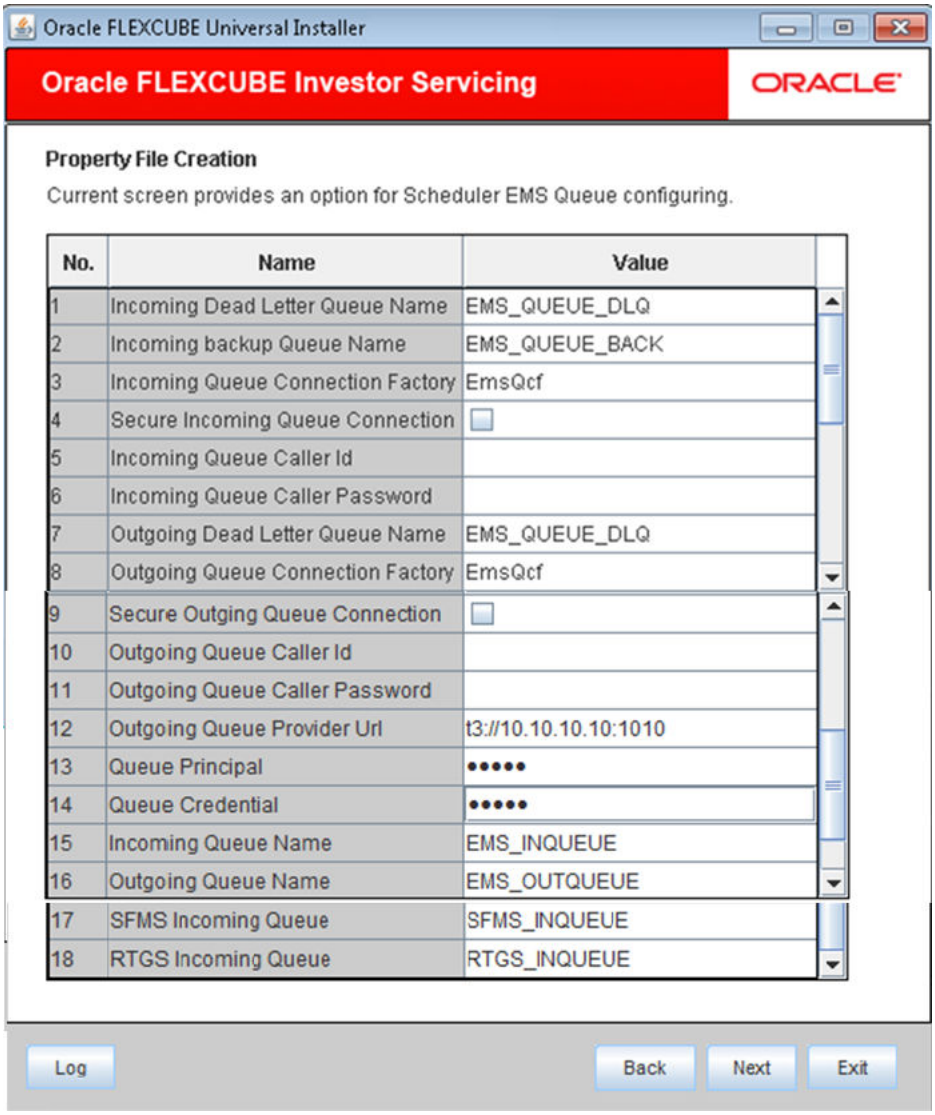
1.9 Set Up EMS Properties

This topic describes the process of setting EMS Properties.

1. Set the EMS properties in the **Scheduler EMS Properties** screen.

   The following screen is displayed.

Figure 1-41 EMS Properties



2. On **Scheduler EMS Properties** screen, enter the following details.

   Refer to the table for Scheduler EMS Properties.

Table 1-15 Scheduler EMS Properties

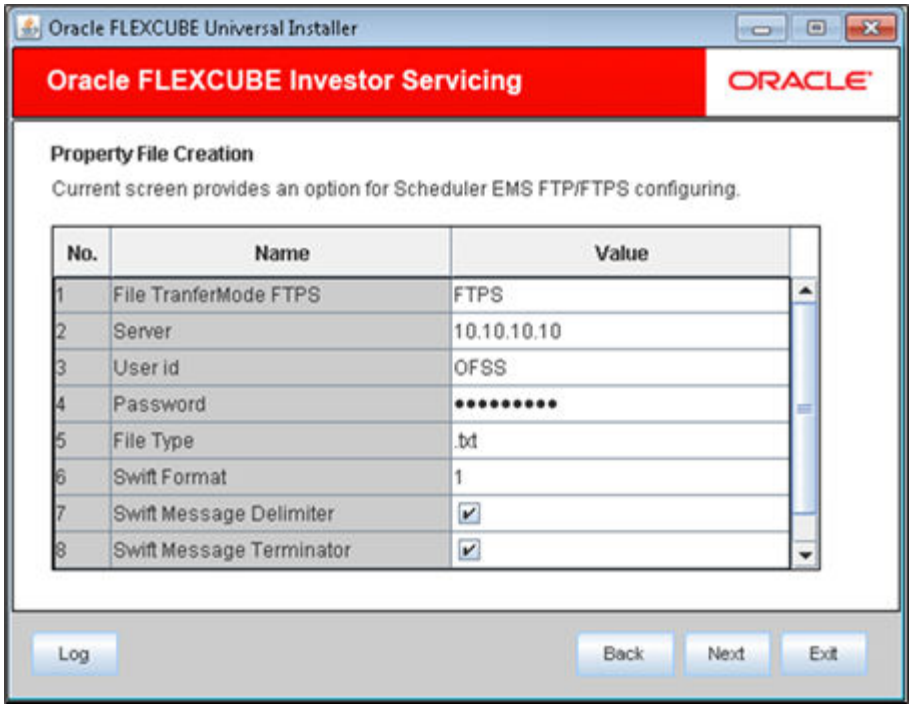
Field	Description
Incoming Dead Letter Queue Name	Set **EMS_QUEUE_DLQ** as the incoming dead letter queue name.
Incoming Backup Queue Name	Set **EMS_QUEUE_BACK** as the incoming backup queue name.

Table 1-15 (Cont.) Scheduler EMS Properties

Field	Description
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: • **Application Server**: Oracle WebLogic • **EMS Out Initial Context Factory**: 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	You need to specify the EMS out queue principal if **EMS OUT MDB** has to be configured to queue. 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. You are provided with an option for **Scheduler EMS FTP/FTPS** configuration.

Figure 1-42 Scheduler EMS FTP or FTPS Configuration



4. On **Scheduler EMS FTP/FTPS Configuration**, enter the following details.

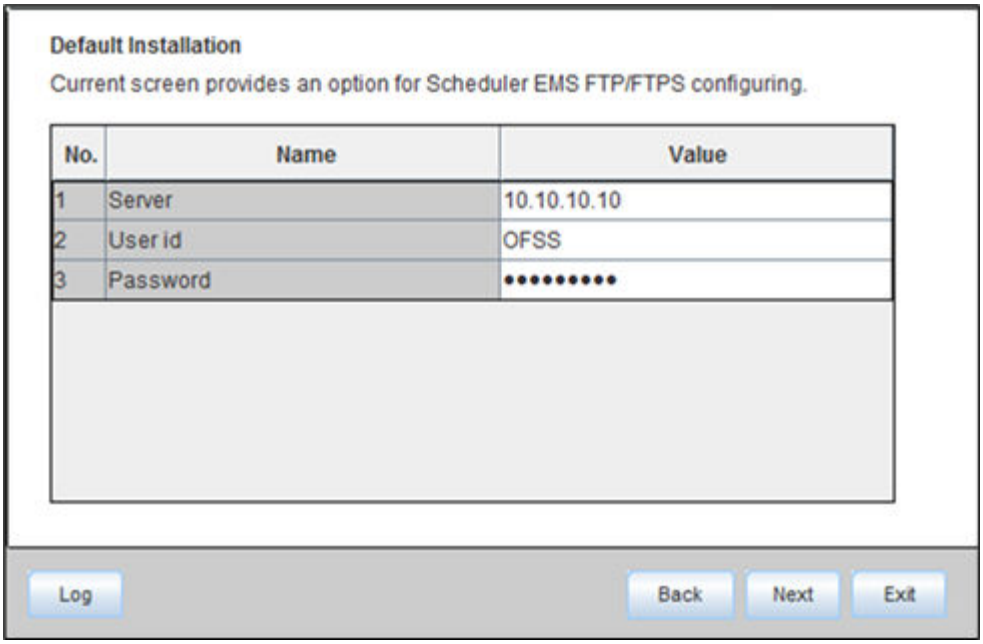
   Refer to the table for Scheduler EMS FTP/FTPS Configuration.

Table 1-16 Scheduler EMS FTP/FTPS Configuration

Field	Description
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.

For **Default Installation**, the following screen is displayed.

Figure 1-43 Scheduler EMS FTP or FTPS Configuration for Default Installation



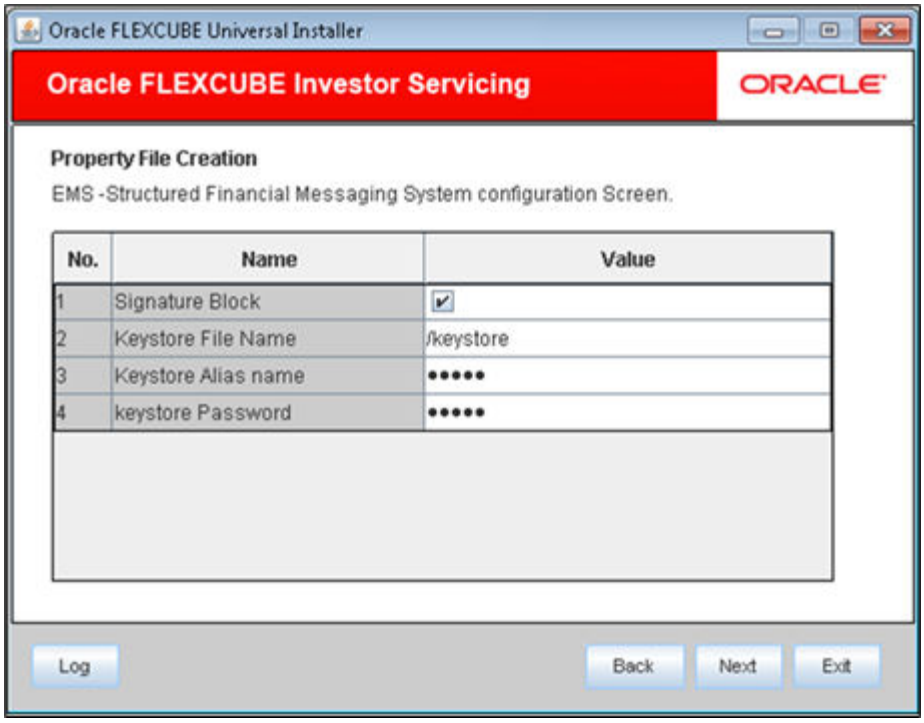
5. On **EMS Structured Financial Message System Configuration** screen, enter the following details.

   Refer to the table for Scheduler EMS Structured Financial Message System Configuration.

Table 1-17 EMS Structured Financial Message System Configuration

Field	Description
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.

Figure 1-44 EMS Structured Financial Messaging System



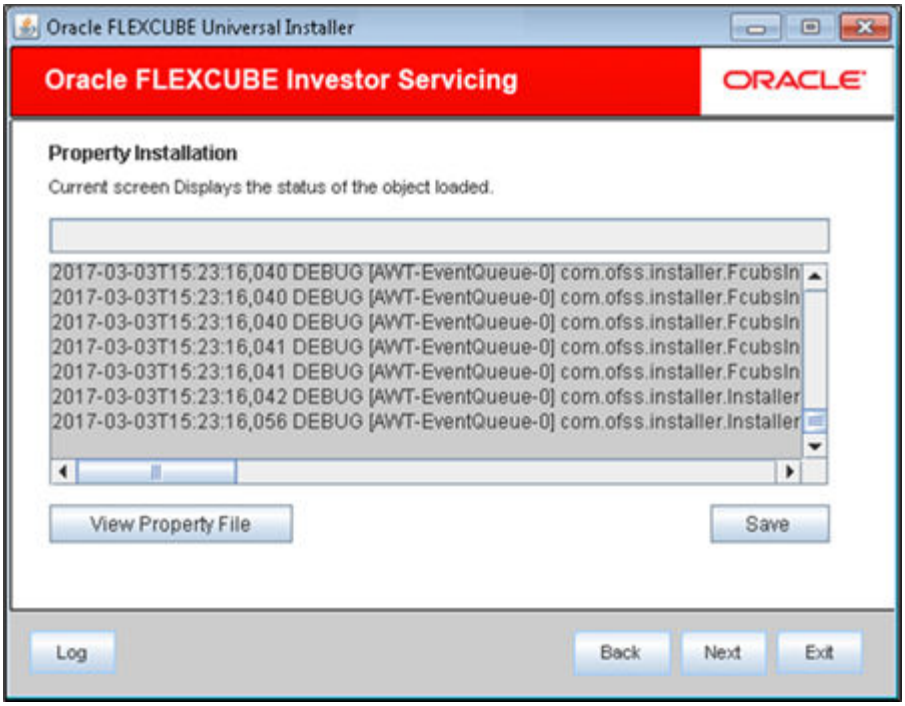
1.10 Save Property File

This topic describes the steps to save Property File.

1. Save the Property File.

   The following screen is displayed.

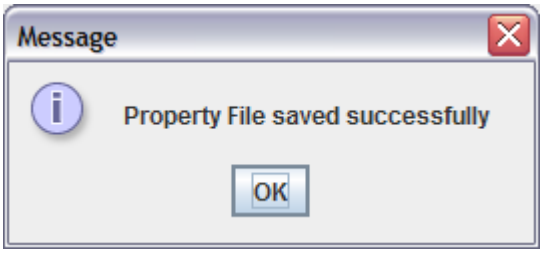
Figure 1-45 Status of Property File



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.

Figure 1-46 Save Property File

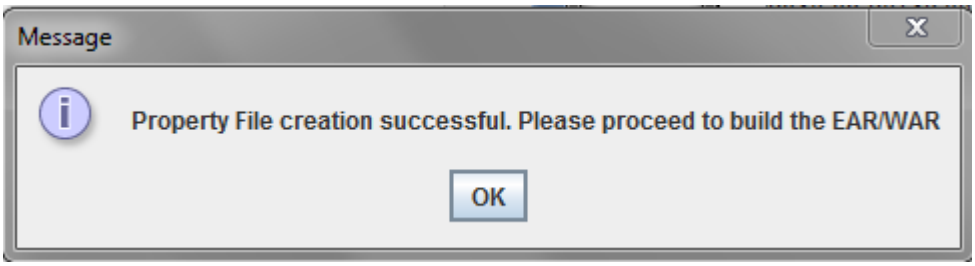


3. Click **OK**. This completes the properties file creation.

   Post creation of property file, relaunch the installer.

   The following screen is displayed.

Figure 1-47 Property File Creation Message



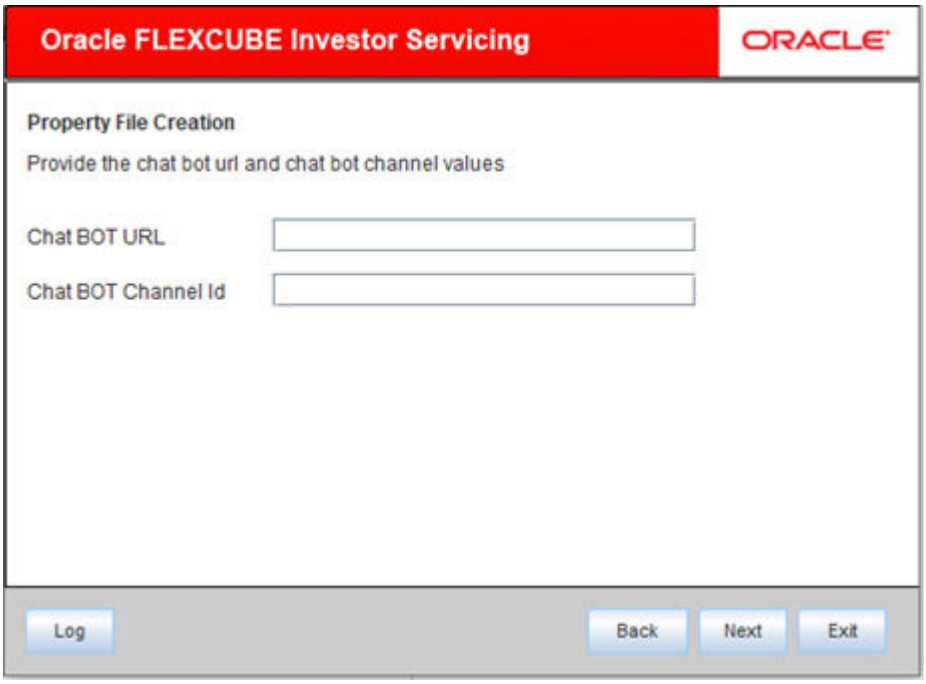
1.11 Configure Chatbot Properties

This topic describes the method to configure Chatbot properties.

1. Specify the **Chat BOT URL** and **Chat BOT Channel Id**.

   The following screen is displayed.

Figure 1-48 Chatbot Properties



2. **FCIS** makes use of web-sdk provided by Oracle to connect to the chatbot server.

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

   The web-sdk JavaScript files need to be downloaded separately.

3. On **Chatbot Properties** screen, enter the following details.

   Refer to the table for Language Properties.

Table 1-18 Chatbot Properties

Field	Description
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.

2
Maintain Silent config file

This topic describes the process to maintain Silent config file.

Maintain Silent config file
For the config file maintenance, the below file properties are mandatory.

Table 2-1 Config file Maintenance

Field	Description
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 and Gateway Application Properties	FCIS and Gateway Application properties can be generated using Installer.

1. Individual Fix installer will validate whether the following 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
   - BUILD_PROPERTY_PATH
   - SYMMETRIC_KEY
   - USERNAME
   - PASSWORD
   - PORT
   - SERVICENAME
   - IP
   - JAVA_HOME
   - APPSERVER_HOME
   - ORACLE_HOME

2. On **Env.properties** screen, enter the following details.

   Refer to the table for Env.properties.

Table 2-2 Env.properties

Field	Description
SINGLE_FIX_SCHEMA_NAMES	It specifies the schema names with **Tilde (~)** separator.

Table 2-2 (Cont.) Env.properties

Field	Description
BUILD_PROPERTY_PATH	It specifies the property file used for DB compilation or EAR build.
SYMMETRIC_KEY	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 **Value A** or **Value 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.

3. On **Silent DB Compilation**, enter the following details.

   Refer to the table for Silent DB Compilation.

Table 2-3 Silent DB Compilation

Field	Description
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`.

Table 2-3 (Cont.) Silent DB Compilation

Field	Description
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**.
For GATEWAY Application EAR building	This section displays the **Gateway** Application Type EAR building. • **Gateway EJB** • **Gateway Webservices (SOAP)** • **REST EJB** • **REST Web Services**
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,LOGGER_PATH,FCIS_MSG_SCHEMA_CON_POOLNAME,FCIS_MSG_SCHEMA_CON_POSS_REQD,DISTRIBUTED_INSTALLATION,GW.LOGGER.FPATH,RTT_PLUGIN,MSG_IN_LOG_REQ,MSG_OUT_LOG_REQ,SYMMETRIC_KEY`
Gateway Webservices (SOAP)	In **PROPERTY_FILE_PATH**, the property should contain `GW_WS_Prop.properties` location. The **GATEWAY_APPLICATION_TYPE** must be **Gateway WebServices**.
WEBSERVICE_TYPE	This section displays the WEBSERVICE_TYPE of Gateway Webservices. • **INDIVIDUAL** • **INTEGRATED**

Table 2-3 (Cont.) Silent DB Compilation

Field	Description
INDIVIDUAL	In this, the **WEBSERVICE_TYPE** must be Individual. The **INDIVIDUAL_WEBSERVICE_SELECTED** should contain 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: `NDIVIDUAL_WEBSERVICE_SELECTED,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`
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"`
REST EJB	In **PROPERTY_FILE_PATH**, the property should contain `GW_RESTEJB_Prop.propertieslocation`. 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`
REST Web Services	In **PROPERTY_FILE_PATH**, the property should contain `GW_REST_Prop.propertieslocation`. The **GATEWAY_APPLICATION_TYPE** must be **RESTWS**.
WEBSERVICE_TYPE	This section displays the WEBSERVICE_TYPE of REST Web Services. • **INDIVIDUAL** • **INTEGRATED**

Table 2-3 (Cont.) Silent DB Compilation

Field	Description
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`
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.

Table 2-3 (Cont.) Silent DB Compilation

Field	Description
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/IuSe/nt1+jubXHhlrCOFHP2J/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/IuSe/nt1+jubXHhlrCOFHP2J/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.