

Gateway Application Setup
Oracle FLEXCUBE Investor Servicing

Release 14.5.2.0.0
[November] [2021]



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1. Setting up Gateway for Oracle FLEXCUBE

1.1 Introduction

This chapter explains the steps for setting up the Gateway Application for Oracle FLEXCUBE.

1.2 Setting up Gateway EJB Application

This section explains the methods of setting up Gateway EJB Application.

1.2.1 Prerequisites

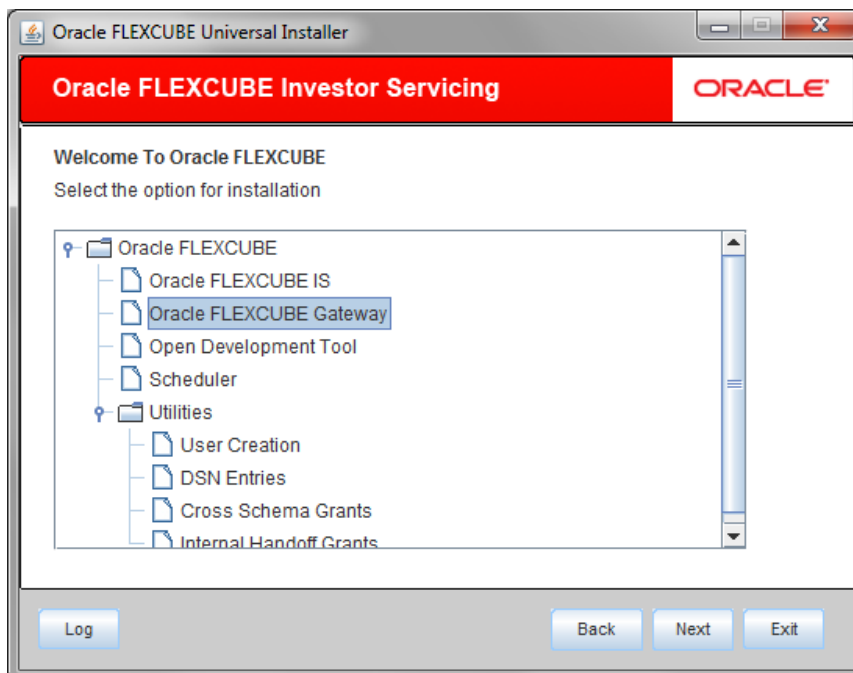
You need to create the following gateway EJB property files before building the application:

- gw_ejb_logger.properties
- GW_EJB_Prop.properties

1.2.2 Building EAR File

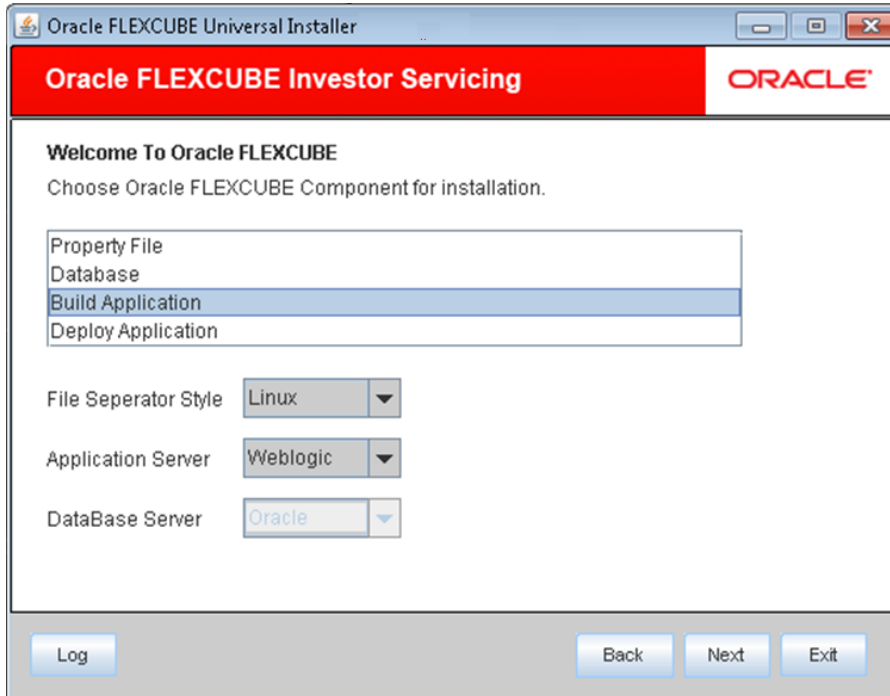
In order to build EAR file for Gateway EJB Application, you need to follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.
2. Click 'Next' the following screen will be displayed.



3. Choose the Application 'Gateway'. Click 'Next'.

The following screen is displayed:



4. Specify the following details:

File Separator Style

Specify the style of file separator (e.g Linux or Windows). 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.

5. Choose 'Build Application'. Click 'Next'. The following screen is displayed:
6. This is the FC HOME folder that needs to be set. Also, it should point to SMS schema. Those versions less than or equal to the current environment are allowed.

Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing **ORACLE**

Installation Type ☐

FC Home 

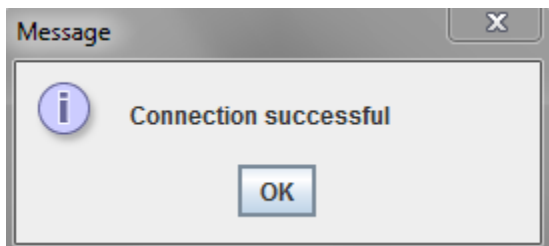
☒ EAR Build ☐ EAR Build Rolled-up

Provide SMS schema details for patch install...

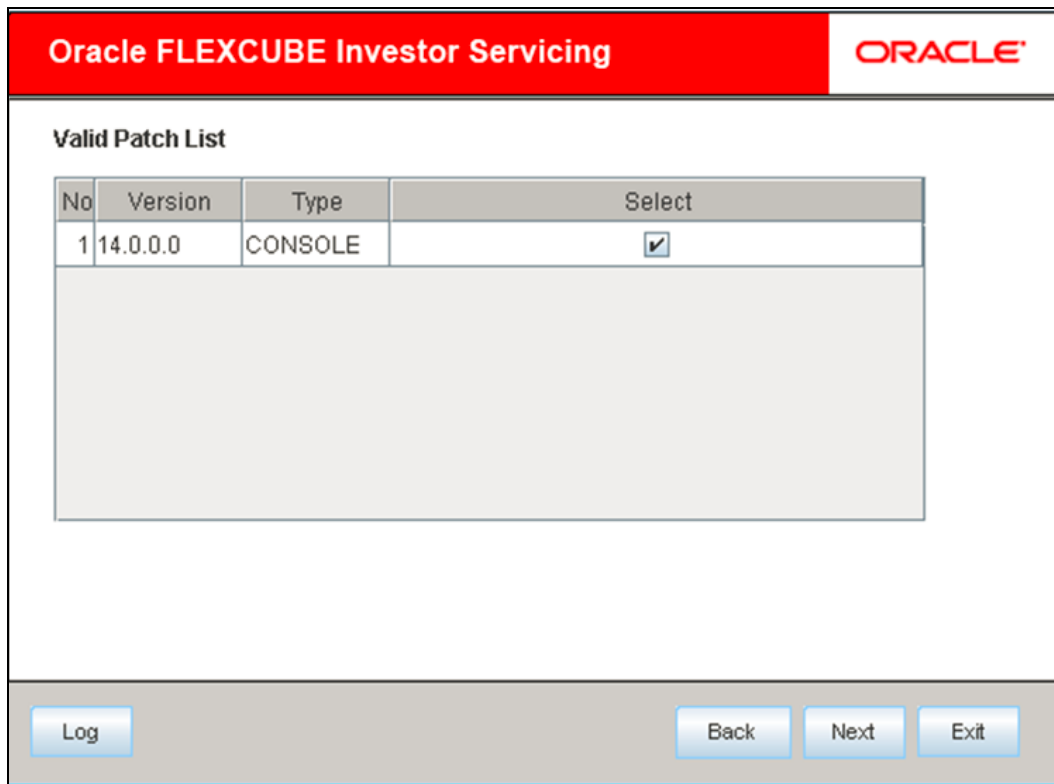
| Name | Value |
|------------------------|-------------|
| Username | test |
| Password | •••• |
| Service Name | test |
| IP Address | 10.10.10.10 |
| Port | 1234 |
| TNS Connect Descriptor | test |

Click 'Test Connection'.

On Successfull connection the below message will be displayed.



Click OK. Click 'Next' to navigate to next page



Oracle FLEXCUBE Investor Servicing

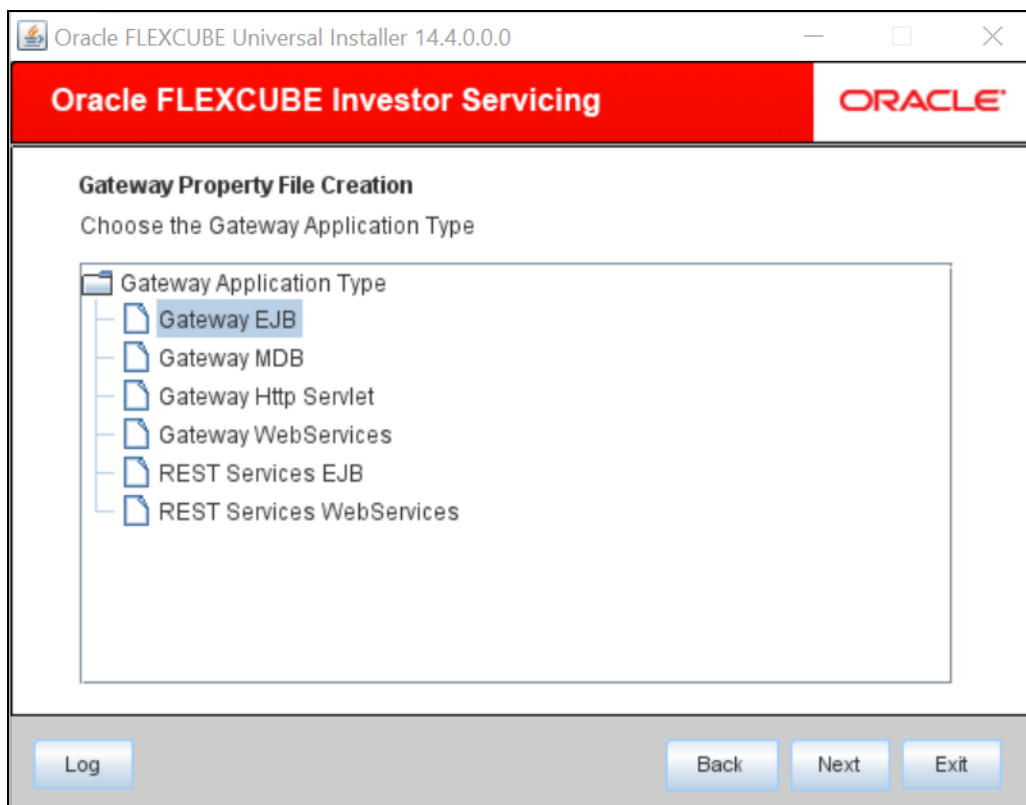
ORACLE

Valid Patch List

| No | Version | Type | Select |
|----|----------|---------|-------------------------------------|
| 1 | 14.0.0.0 | CONSOLE | <input checked="" type="checkbox"/> |

Log Back Next Exit

Click Next.



Oracle FLEXCUBE Universal Installer 14.4.0.0.0

Oracle FLEXCUBE Investor Servicing

ORACLE

Gateway Property File Creation

Choose the Gateway Application Type

- Gateway Application Type
 - Gateway EJB
 - Gateway MDB
 - Gateway Http Servlet
 - Gateway WebServices
 - REST Services EJB
 - REST Services WebServices

Log Back Next Exit

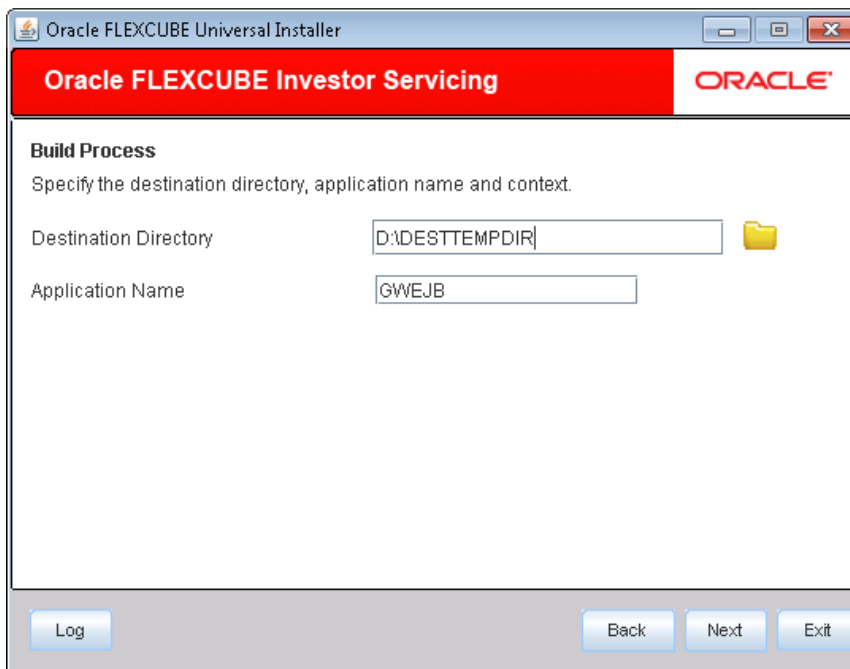
7. Choose 'Gateway EJB'. Click 'Next'.
8. Once you have specified the details, click 'Next' to continue.

The EJB reference name will be '{APPLICATIONNAME}_GW_EJB_Bean' and the JNDI name will be '{APPLICATIONNAME}/ejb/GW_EJB_Bean'.

For example, consider that the application name is GWEJB. In that case EJB and JNDI names will be as follows:

- EJB reference name: GWEJB_GW_EJB_Bean
- JNDI name: GWEJB/ejb/GW_EJB_Bean

9. Click 'Next'. 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. Below the header, the section is titled 'Build Process' with the instruction 'Specify the destination directory, application name and context.' There are two input fields: 'Destination Directory' with the text 'D:\DESTTEMPDIR' and a folder icon to its right, and 'Application Name' with the text 'GWEJB'. At the bottom of the window, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

Provide the destination directory path

Provide the required application name. Click Next and the below screen is displayed if the application server is weblogic.

The screenshot shows the 'Build Process' window of the Oracle FLEXCUBE Universal Installer. The title bar reads 'Oracle FLEXCUBE Universal Installer 14.4.0.0.0'. The window has a red header with 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. The main content area is titled 'Build Process' and contains the instruction 'Specify the Property File path.' Below this, there are two input fields: 'Load Property File' with the value 'PropertyFile\Gateway\EJB\GW_EJB_Prop.properties' and a folder icon to its right, and 'Symmetric key' with the value 'oraclefinancialsolutions'. At the bottom of the main area is a large text box with the placeholder text 'Provide the property file path to be included.' and a vertical scrollbar. The bottom of the window features a grey bar with four buttons: 'Log', 'Back', 'Next', and 'Exit'.

If the application server selected is websphere, the below screen is displayed.

This screenshot is identical to the one above, showing the 'Build Process' window of the Oracle FLEXCUBE Universal Installer. The title bar, header, and main content area are the same. However, the 'Load Property File' input field is currently empty, and the 'Symmetric key' input field is also empty. The 'Next' button at the bottom is highlighted, indicating it is the active step in the process.

10. Specify the following details:

Centralized Property File

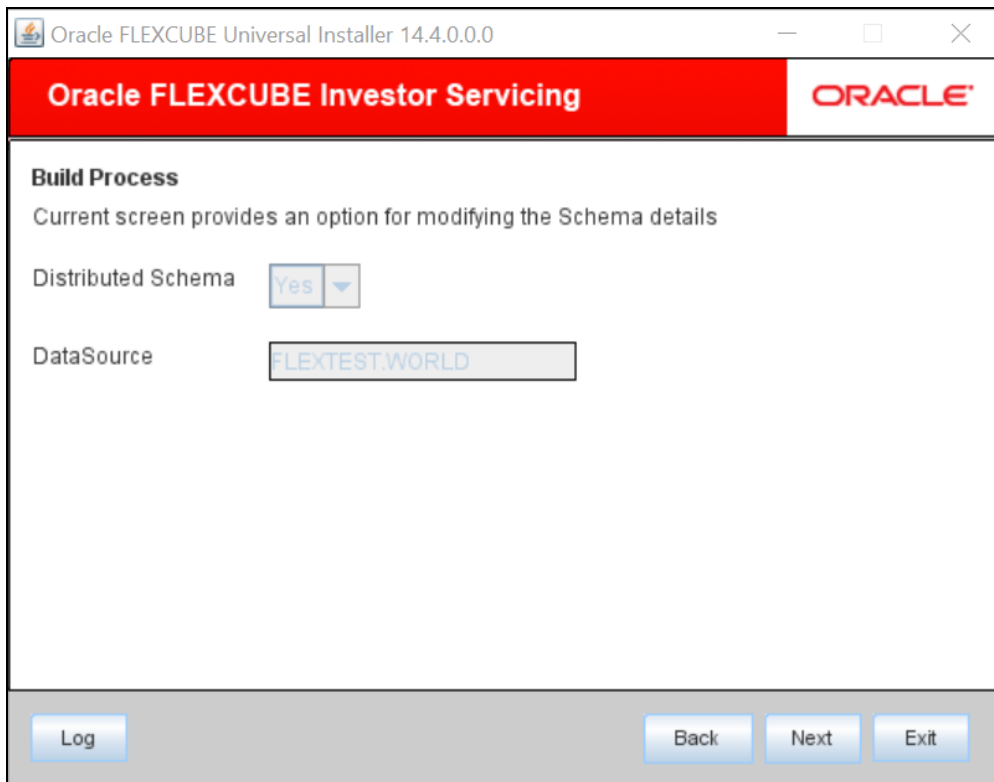
To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

Symmetric Key

Specify the symmetric key details.

Note: Do not load the Logger.properties file. The installer will load that file automatically based on the property file.

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



Oracle FLEXCUBE Universal Installer 14.4.0.0.0

Oracle FLEXCUBE Investor Servicing ORACLE

Build Process

Current screen provides an option for modifying the Schema details

Distributed Schema ▼

DataSource

12. Specify the following details:

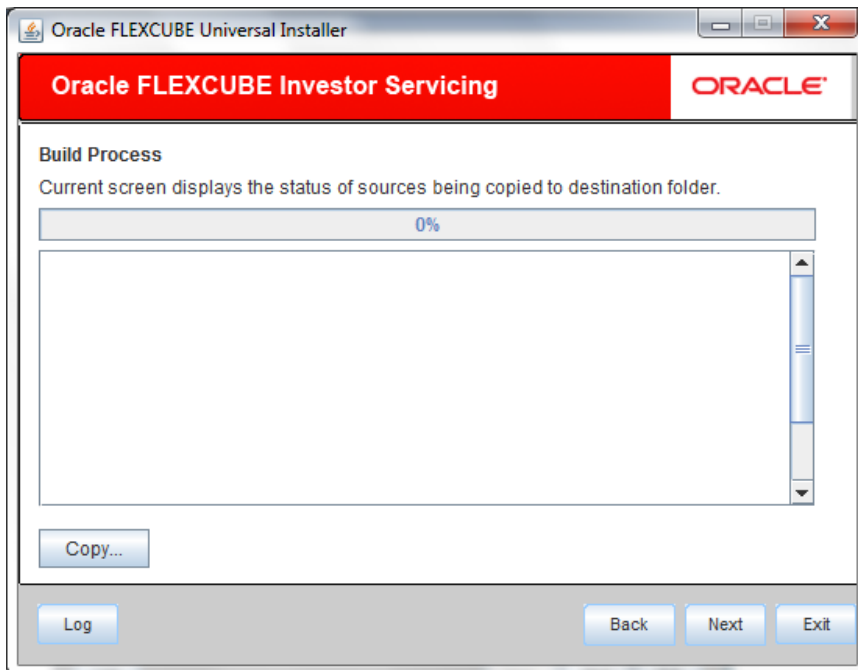
Distributed Schema

Specify whether this is a distributed schema or not. This is a read only component. The Distributed schema will be YES only if the property file has distributed schema.

Data Source

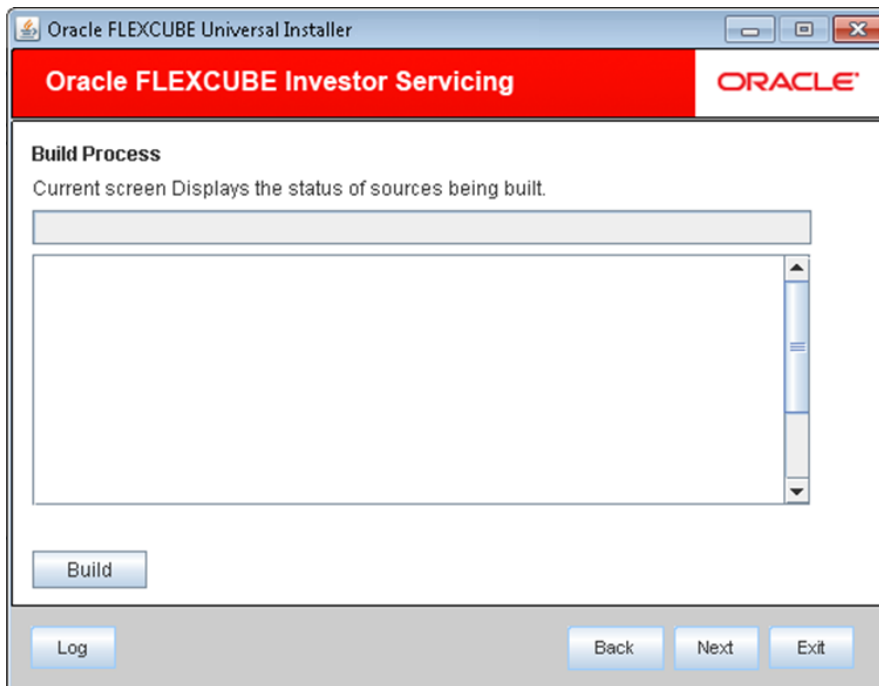
Specify the data source of the schema.

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



14. Click 'Copy' button. The installer copies the files.

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



16. Click 'Build' button to start the build process. The installer builds the source files.

This completes the EAR file generation process. The EAR file will be saved to the destination directory.

2. Setting up Gateway MDB Application

This section explains the methods of setting up Gateway MDB Application.

2.1.1 Prerequisites

You need to create the following gateway MDB property files before building the application:

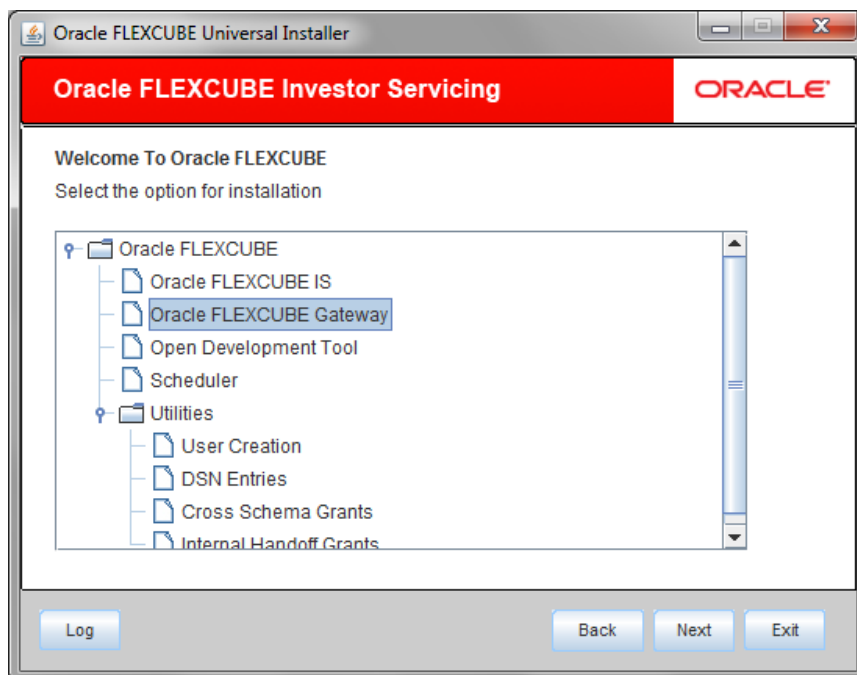
- gw_mdb_logger.properties
- GW_MDB_Prop.properties

For details, refer to the section 'Gateway MDB Application' in chapter 'Setting up Property Files' (04-PropertyFile_Setup).

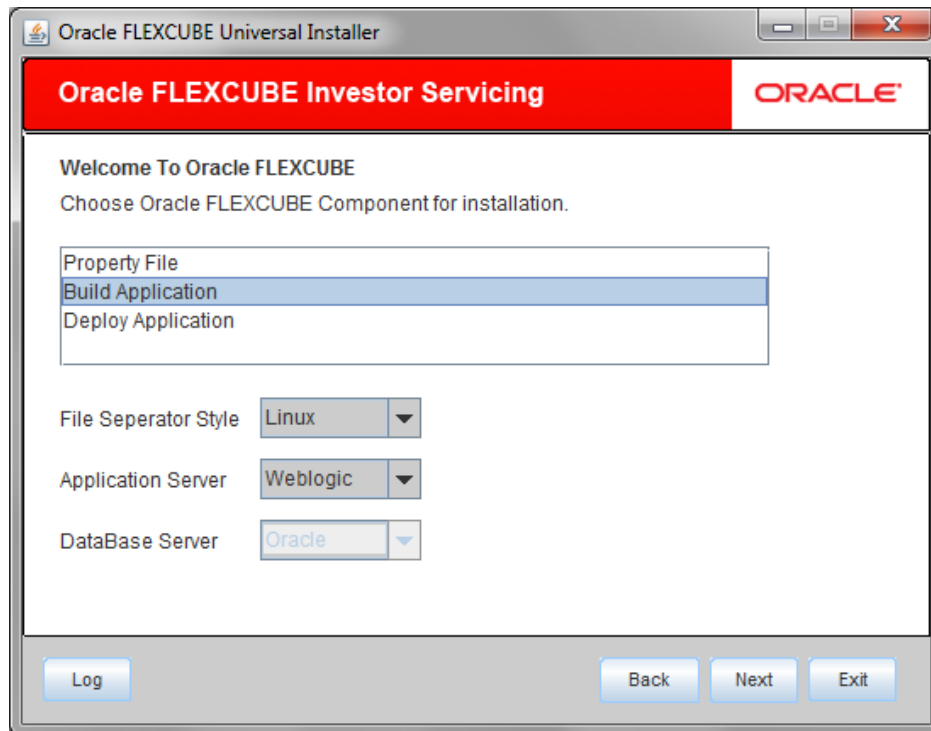
2.1.2 Building EAR File

In order to build EAR file for Gateway MDB Application, you need to follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.



Choose the Application 'Oracle FLEXCUBE Gateway'. Click 'Next'. The following screen is displayed:



2. Specify the following details:

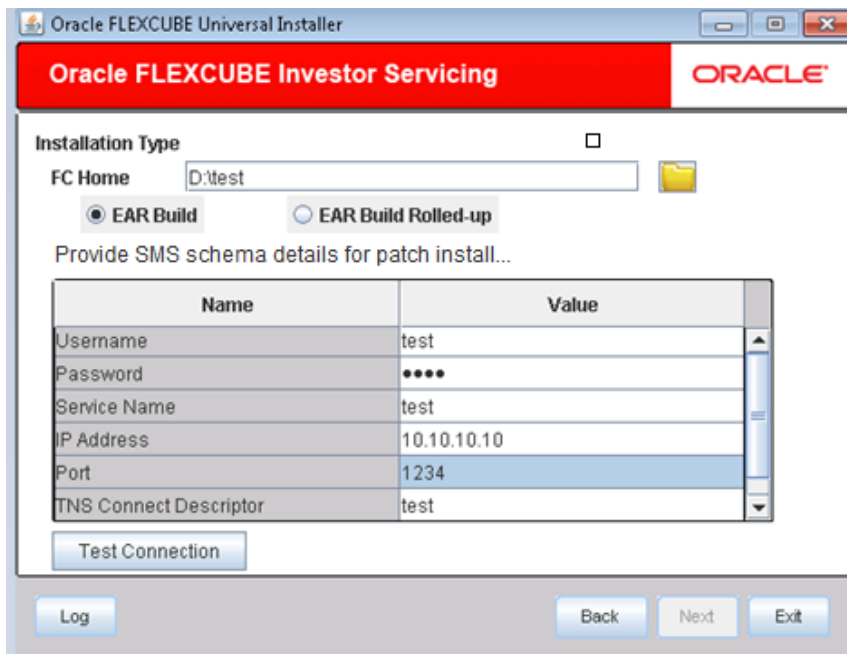
File Separator Style

Specify the type of file separator (e.g: Linux or Windows). Choose the appropriate one from the drop-down list. You also need to specify the version of the selected operating system.

Application Server

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


Choose 'Build Application'. Click 'Next'. The following screen is displayed



Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing ORACLE

Installation Type ☐

FC Home 

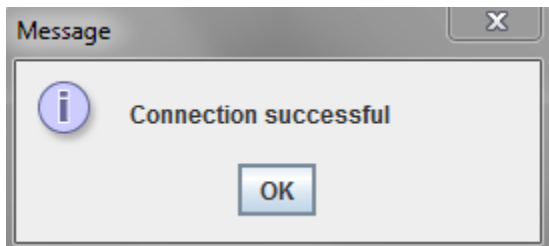
☒ EAR Build ☐ EAR Build Rolled-up

Provide SMS schema details for patch install...

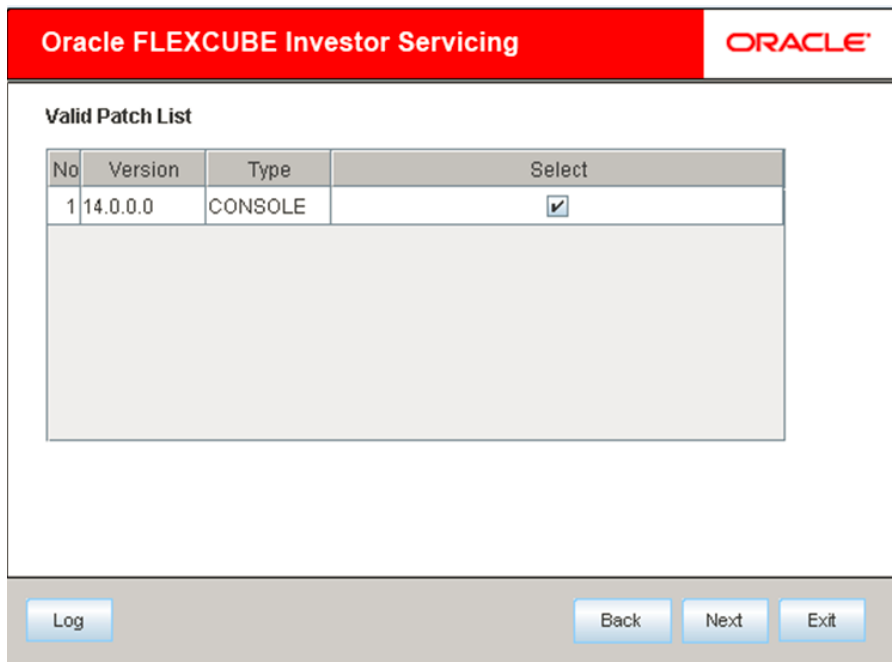
| Name | Value |
|------------------------|-------------|
| Username | test |
| Password | •••• |
| Service Name | test |
| IP Address | 10.10.10.10 |
| Port | 1234 |
| TNS Connect Descriptor | test |

Choose FC home and specify the SMS schema details.

Click 'Test Connection'. On Successful connection the below message will be displayed.

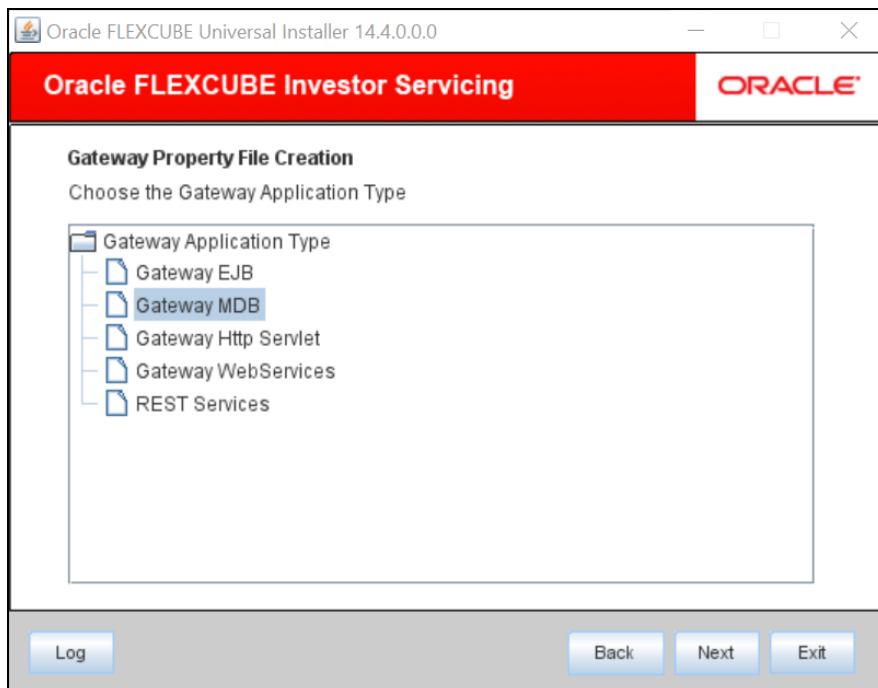


Click OK. Click 'Next' to navigate to next page



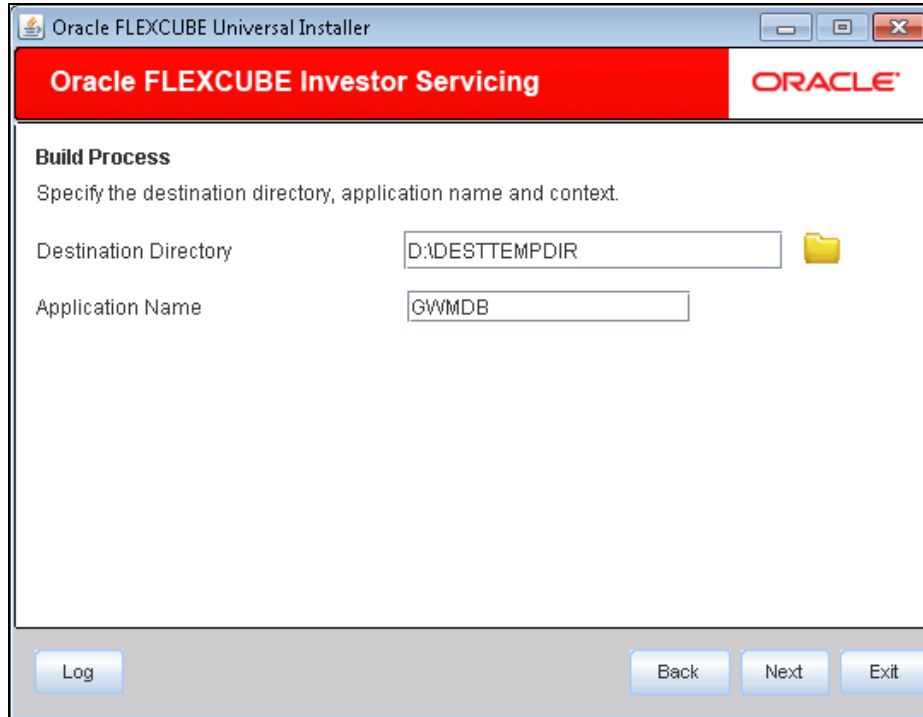
Choose patches from list and click 'Next'

The following screen is displayed:



3. Choose 'Gateway MDB'. Click 'Next'.


4. The following screen is displayed: Click 'Next' the following screen will be displayed.



Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing ORACLE

Build Process
Specify the destination directory, application name and context.

Destination Directory 

Application Name

Log Back Next Exit

5. Specify the following details:

Destination Directory

Specify the location of the destination directory. The source files from the software will be copied to this location.

Eg: D:\Testing\source\dest

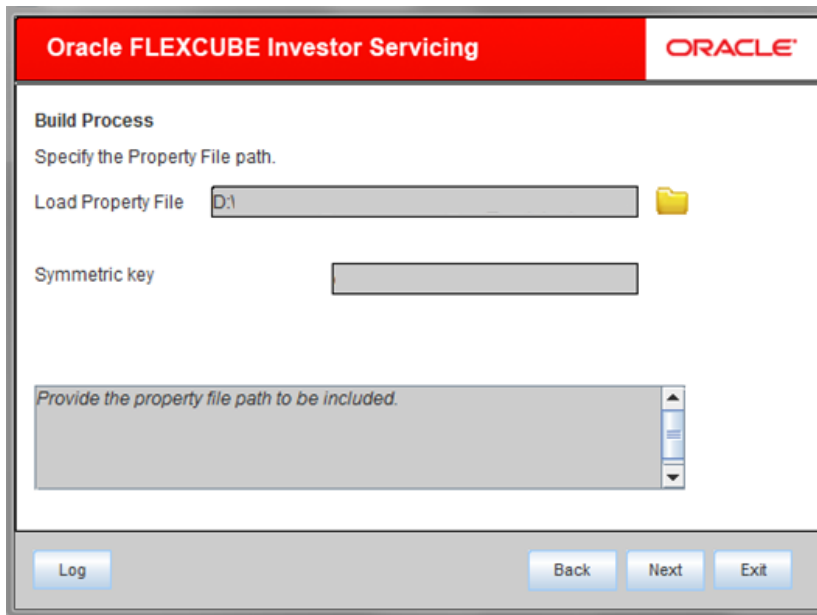
Application Name

Specify the EAR name of the application.

The application name should not contain special characters and space. However, you may use '_' (Underscore).

Eg: GWMDB

6. Once you have specified the details, click 'Next' to continue.



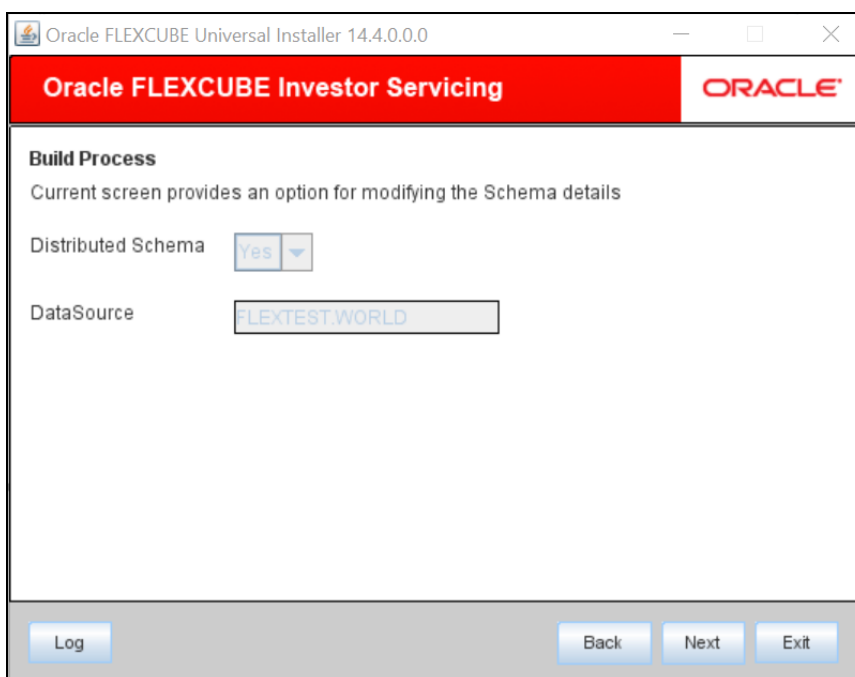
7. Specify the following details:

Centralized Property File

To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

Note: Do not load the Logger.properties file. The installer will load that file automatically based on the property file.

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



9. Specify the following details:

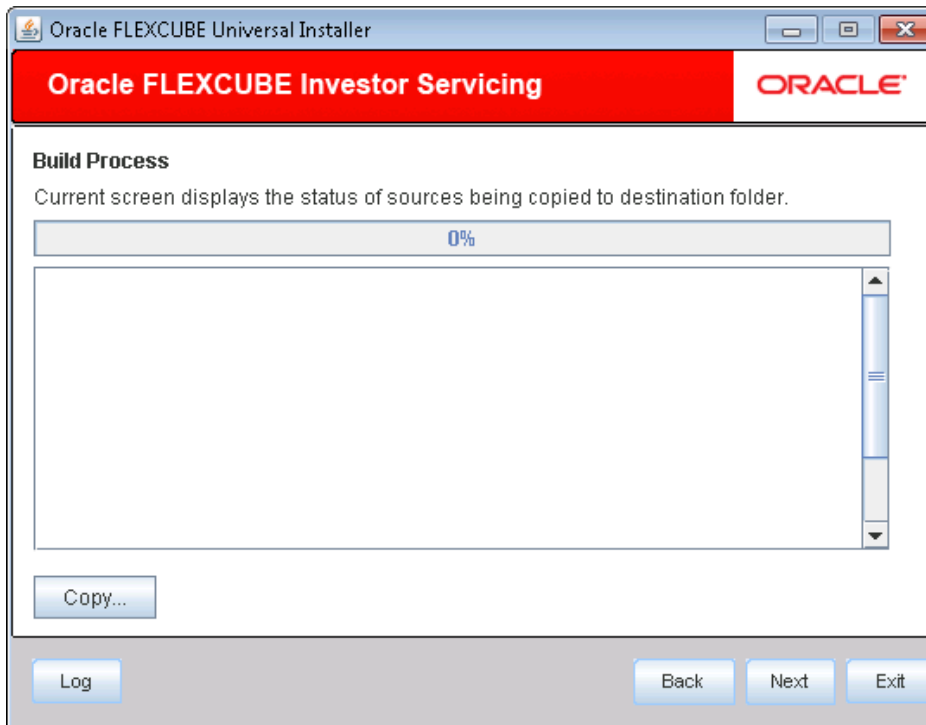
Distributed Schema

Select Distributed Schema as 'Yes'.

Data Source

Specify the data source of the schema.

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



11. Click 'Copy' button. The installer copies the files.

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



13. Click 'Build' button to start the build process. The installer builds the source files.

This completes the EAR file generation process. The EAR file will be saved to the destination directory.

3. Setting up Gateway HTTP Application

This section explains the methods of setting up Gateway HTTP Application. This is not applicable in EXEC mode of installation.

3.1.1 Prerequisites

You need to create the following gateway HTTP property files before building the application:

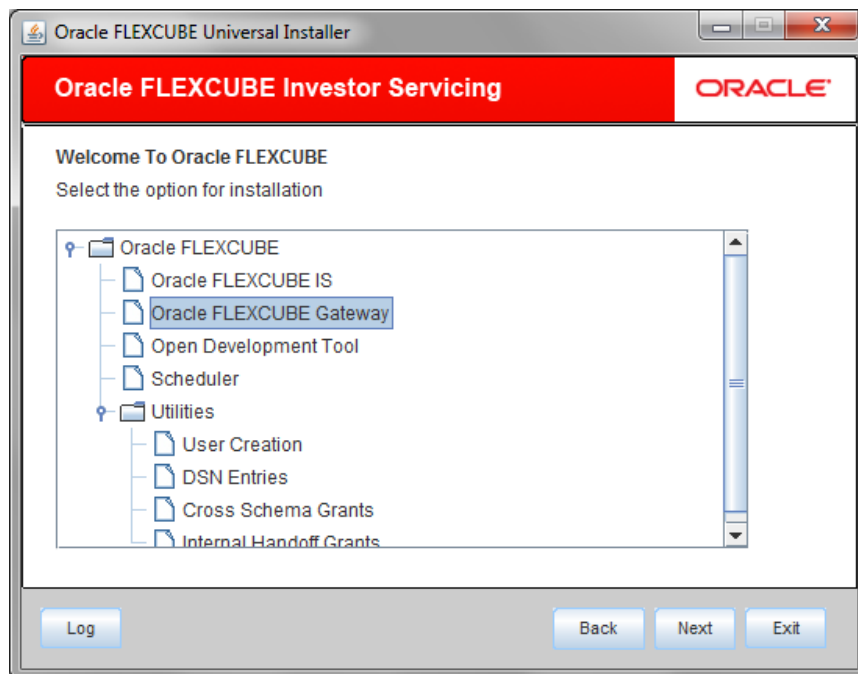
- gw_http_logger.properties
- GW_HTTP_Prop.properties

For details, refer to the section 'Gateway HTTP Application' in chapter 'Setting up Property Files' (04-PropertyFile_Setup).

3.1.2 Building EAR file

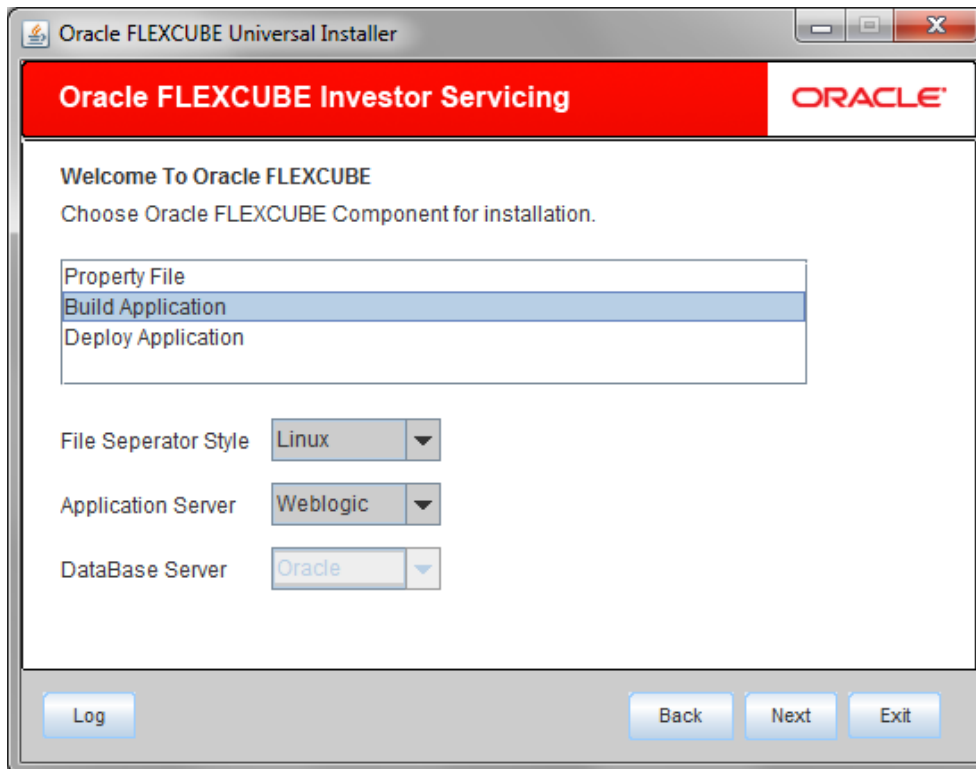
In order to build EAR file for Gateway HTTP Application, you need to follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.



2. Choose the Application 'Oracle FLEXCUBE Gateway'. Click 'Next'.

The following screen is displayed:



3. Specify the following details:

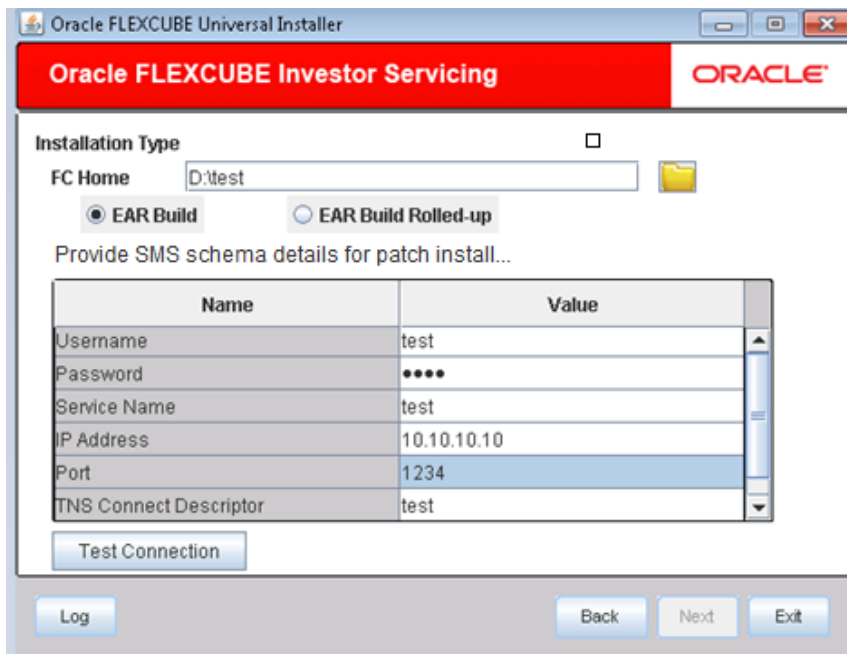
File Separator Style

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.


Choose 'Build Application'. Click 'Next'. The following screen is displayed:



Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing ORACLE

Installation Type ☐

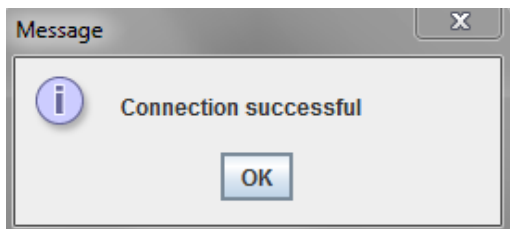
FC Home 

☒ EAR Build ☐ EAR Build Rolled-up

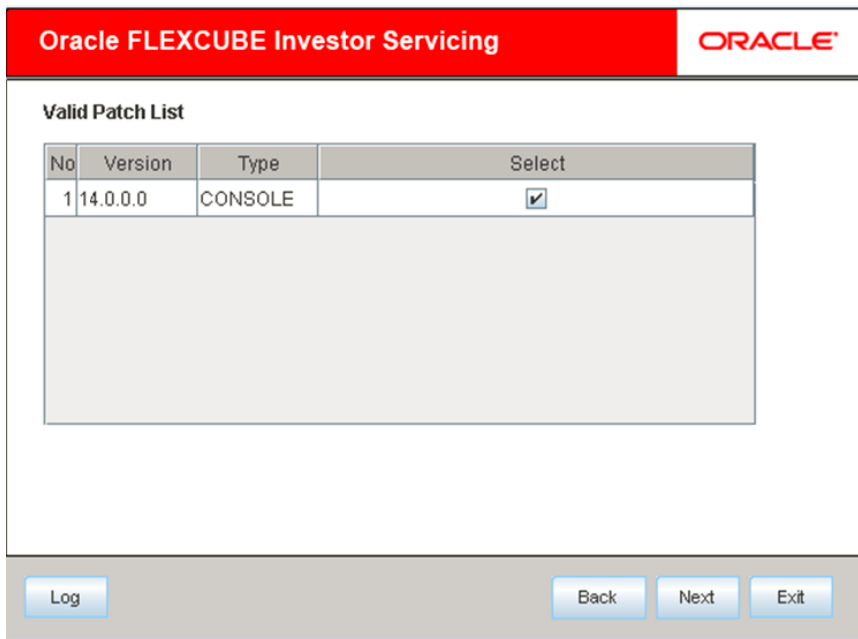
Provide SMS schema details for patch install...

| Name | Value |
|------------------------|-------------|
| Username | test |
| Password | •••• |
| Service Name | test |
| IP Address | 10.10.10.10 |
| Port | 1234 |
| TNS Connect Descriptor | test |

Choose FC home and specify the SMS schema details. Click 'Test Connection'. On Successful connection the below message will be displayed.



Click OK. Click 'Next' to navigate to next page



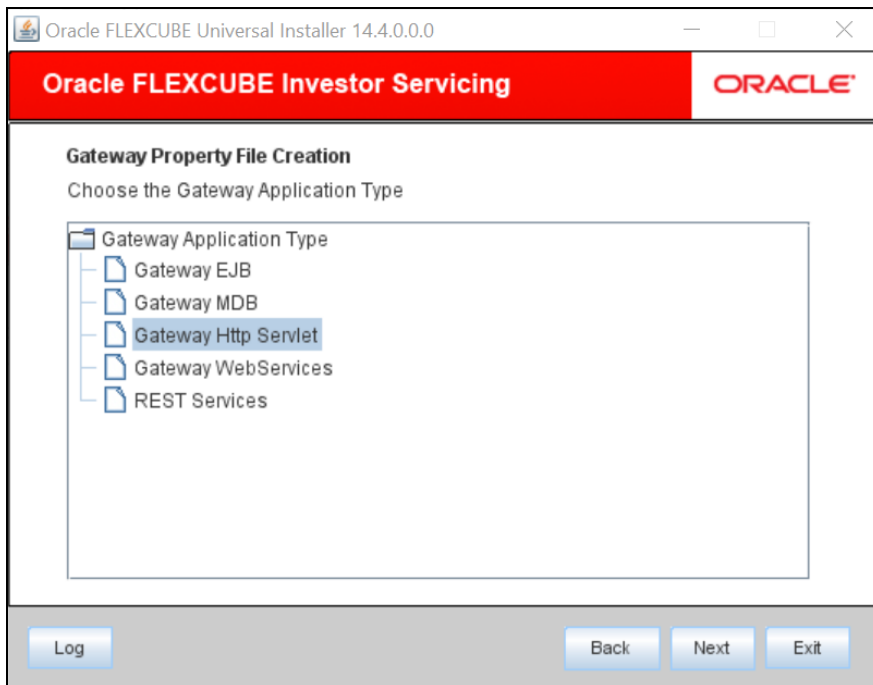
Oracle FLEXCUBE Investor Servicing

Valid Patch List

| No | Version | Type | Select |
|----|----------|---------|-------------------------------------|
| 1 | 14.0.0.0 | CONSOLE | <input checked="" type="checkbox"/> |

Log Back Next Exit

4. Choose Patches. Click 'Next'. The following screen is displayed:



Oracle FLEXCUBE Universal Installer 14.4.0.0.0

Oracle FLEXCUBE Investor Servicing

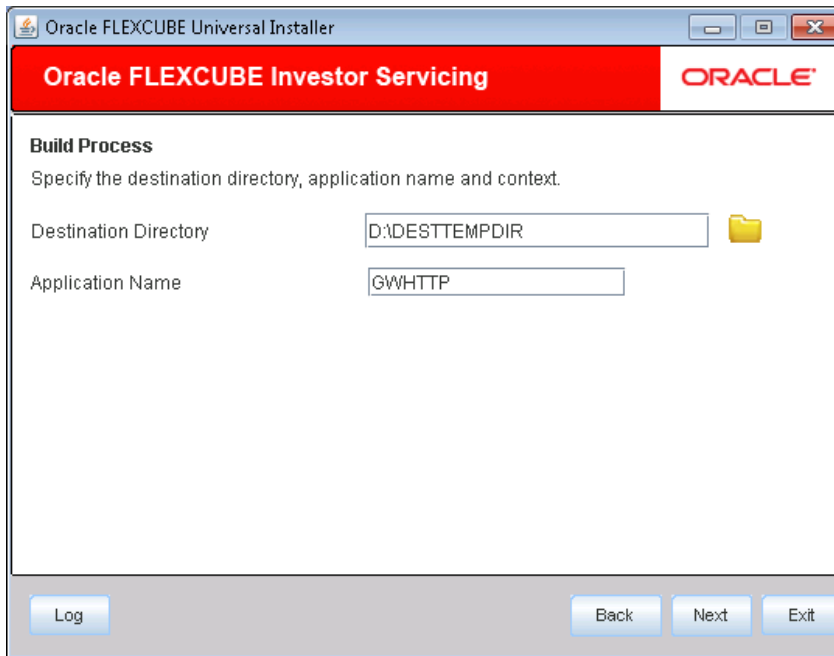
Gateway Property File Creation

Choose the Gateway Application Type

- Gateway Application Type
 - Gateway EJB
 - Gateway MDB
 - Gateway Http Servlet
 - Gateway WebServices
 - REST Services

Log Back Next Exit

5. Choose 'Gateway Http Servlet'. Click 'Next'.



6. Specify the following details:

Destination Directory

Specify the location of the destination directory. The source files from the software will be copied to this location.

Eg: D:\Testing\source\dest

Application Name

Specify the EAR name of the application.

The application name should not contain special characters and space. However, you may use '_' (underscore).

Eg: GWHTTP

Application Context

Based on the Application type selected, the Installer displays the application context. However, you may modify the default value.

Once you have specified the details, click 'Next' to continue.

7. The following screen is displayed.

The screenshot shows a window titled 'Oracle FLEXCUBE Investor Servicing' with the Oracle logo in the top right. The main area is titled 'Build Process' and contains the instruction 'Specify the Property File path.' Below this, there is a 'Load Property File' label followed by a text input field containing 'D:\' and a folder icon to its right. Underneath is a 'Symmetric key' label followed by an empty text input field. At the bottom of the main area is a large text area with the placeholder text 'Provide the property file path to be included.' and a vertical scrollbar. The bottom of the window features a 'Log' button on the left and 'Back', 'Next', and 'Exit' buttons on the right.

8. Specify the following details:

Centralized Property File

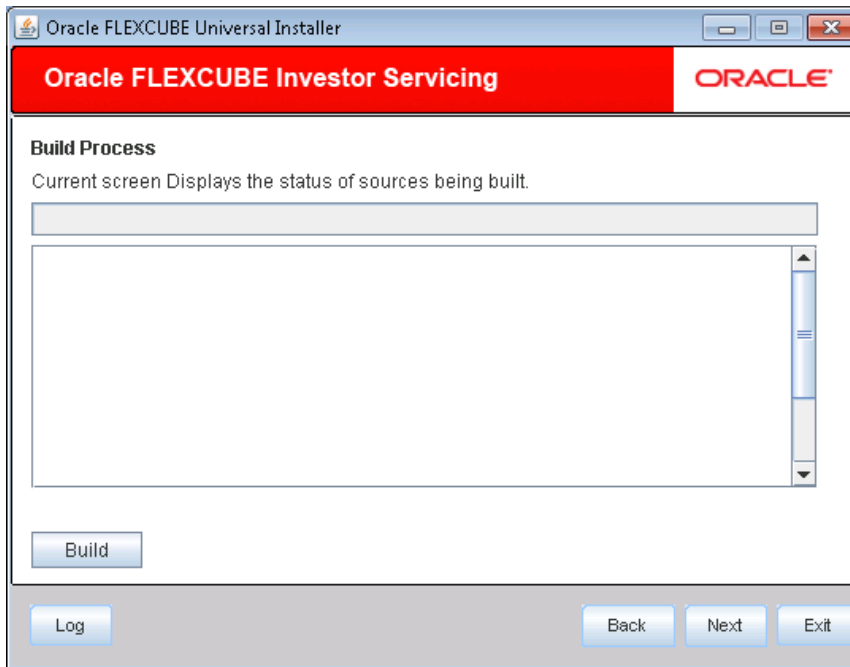
To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

Note: Do not load the Logger.properties file. The installer will load that file automatically based on the property file.

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

The screenshot shows a window titled 'Oracle FLEXCUBE Universal Installer' with the Oracle logo in the top right. The main area is titled 'Build Process' and contains the instruction 'Current screen displays the status of sources being copied to destination folder.' Below this is a progress bar showing '0%'. Underneath the progress bar is a large empty list box with a vertical scrollbar. At the bottom of the main area is a 'Copy...' button. The bottom of the window features a 'Log' button on the left and 'Back', 'Next', and 'Exit' buttons on the right.

10. Click 'Copy' button. The installer copies the files.
11. Click 'Next'. The following screen is displayed.



12. Click 'Build' button to start the build process. The installer builds the source files.

This completes the EAR file generation process. The EAR file will be saved to the destination directory.

4. Setting up Gateway Web Service Application

This section explains the methods of setting up Gateway Web Service Application.

4.1.1 Prerequisites

You need to create the following gateway Web Service property files before building the application:

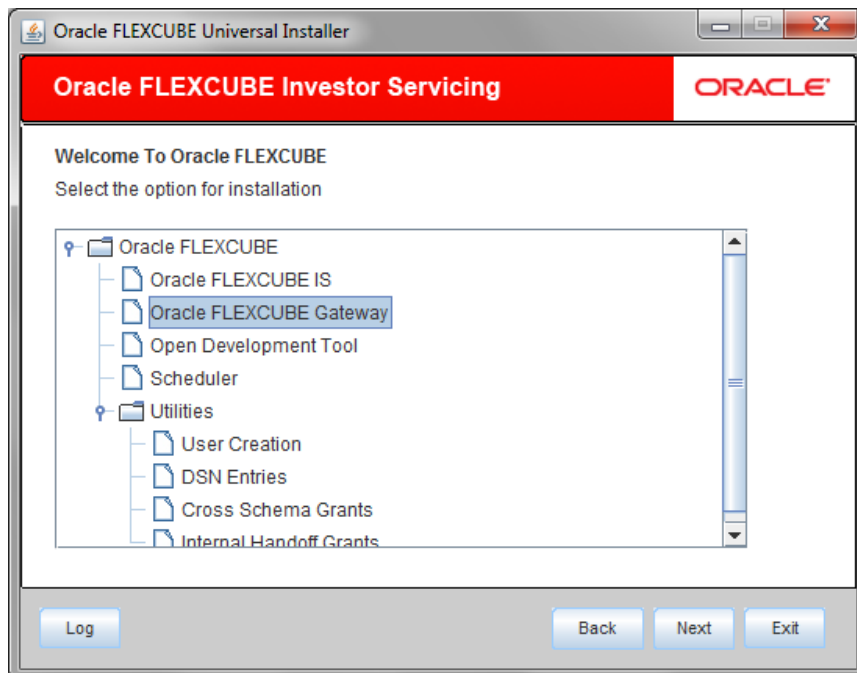
- gw_ws_logger.properties
- GW_WS_Prop.properties

For details, refer [Gateway Property File Creation](#) document

4.1.2 Building EAR File

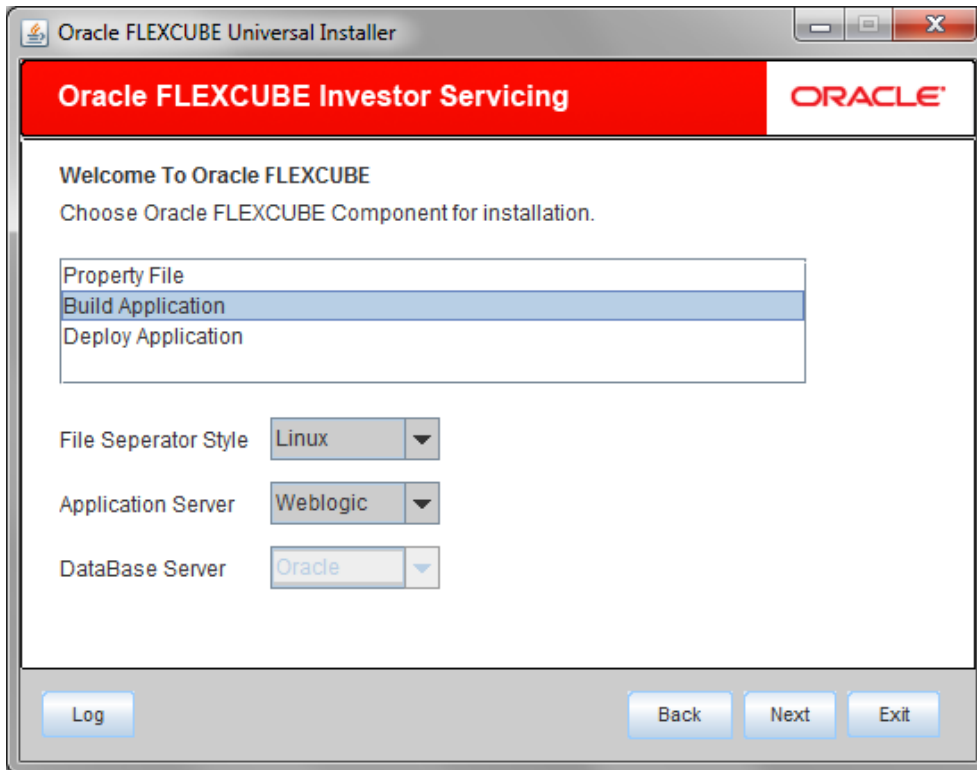
In order to build EAR file for Gateway Web Service Application, you need to follow the steps given below:

1. Launch Oracle FLEXCUBE Universal Installer. The welcome screen is displayed.



2. Choose the Application 'Oracle FLEXCUBE Gateway'. Click 'Next'.

The following screen is displayed:



Specify the following details:

Operating System

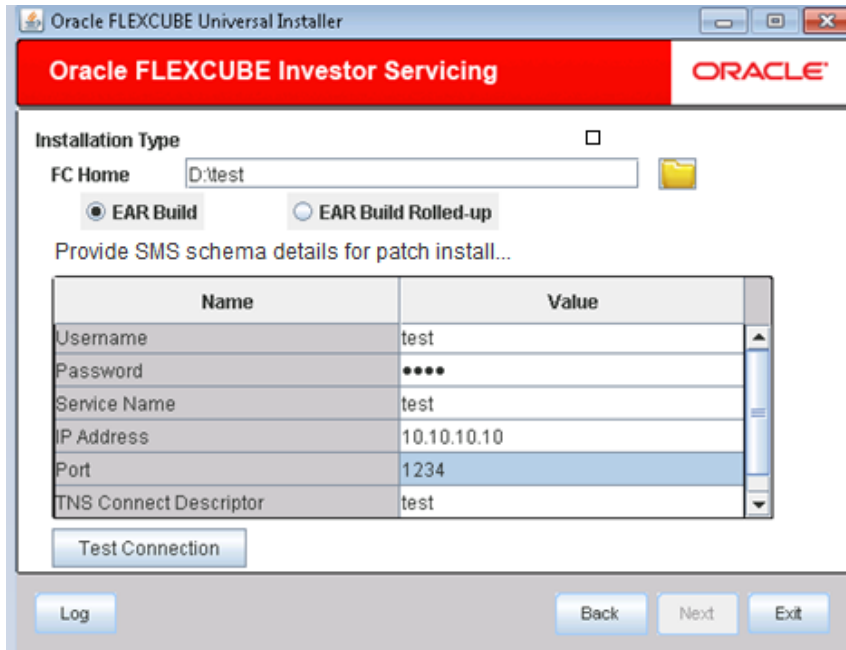
Specify the operating system in which you are creating the property file. Choose the appropriate one from the drop-down list. You

Application Server

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

3. Choose 'Build Application'. Click 'Next'.


The following screens are displayed. This is the FC HOME folder that needs to be set. Also, it should point to SMS schema. Those versions less than or equal to the current environment are allowed.



Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing ORACLE

Installation Type ☐

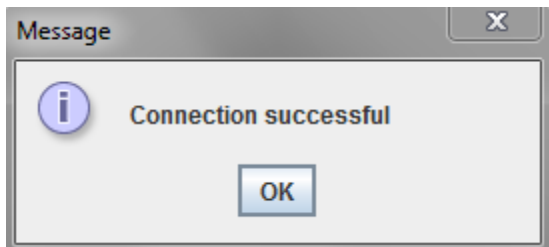
FC Home 

☒ EAR Build ☐ EAR Build Rolled-up

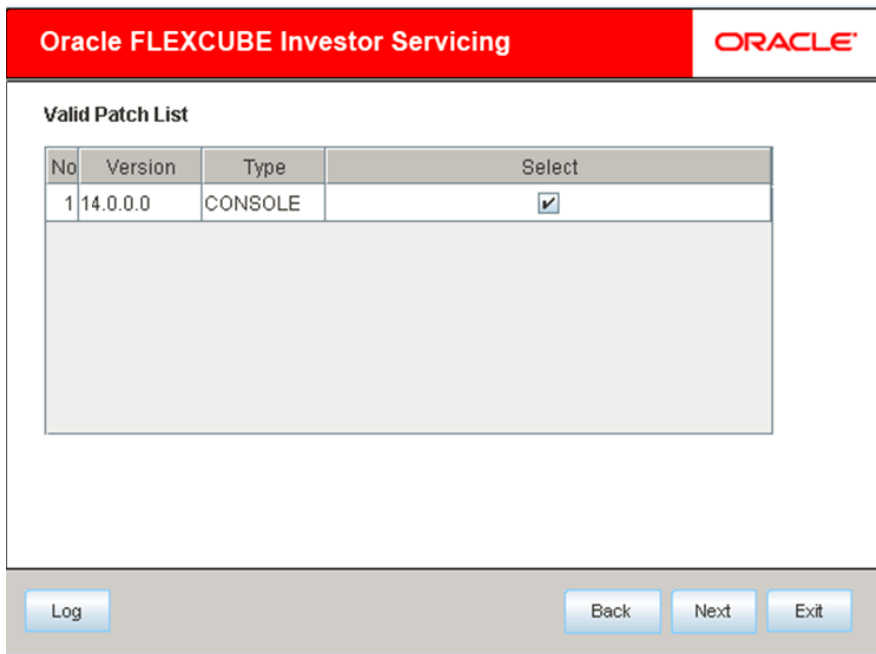
Provide SMS schema details for patch install...

| Name | Value |
|------------------------|-------------|
| Username | test |
| Password | •••• |
| Service Name | test |
| IP Address | 10.10.10.10 |
| Port | 1234 |
| TNS Connect Descriptor | test |

Click 'Test Connection'. On Successful connection the below message will be displayed.



Click OK. Click 'Next' to navigate to next page

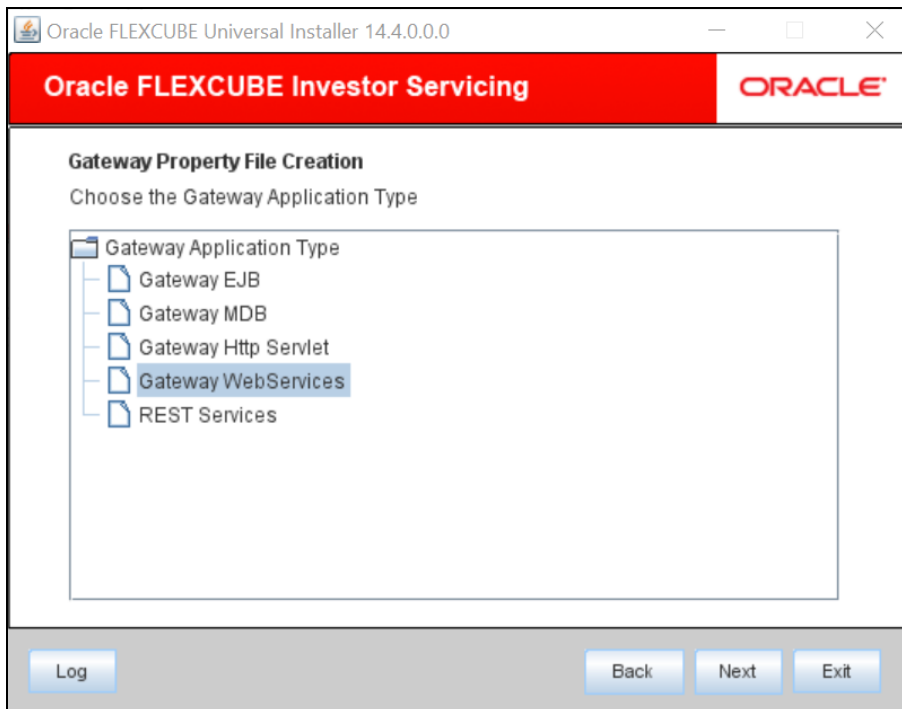


The screen displays the 'Valid Patch List' section. It features a table with the following data:

| No | Version | Type | Select |
|----|----------|---------|-------------------------------------|
| 1 | 14.0.0.0 | CONSOLE | <input checked="" type="checkbox"/> |

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

4. Click 'Next'. The following screen is displayed:



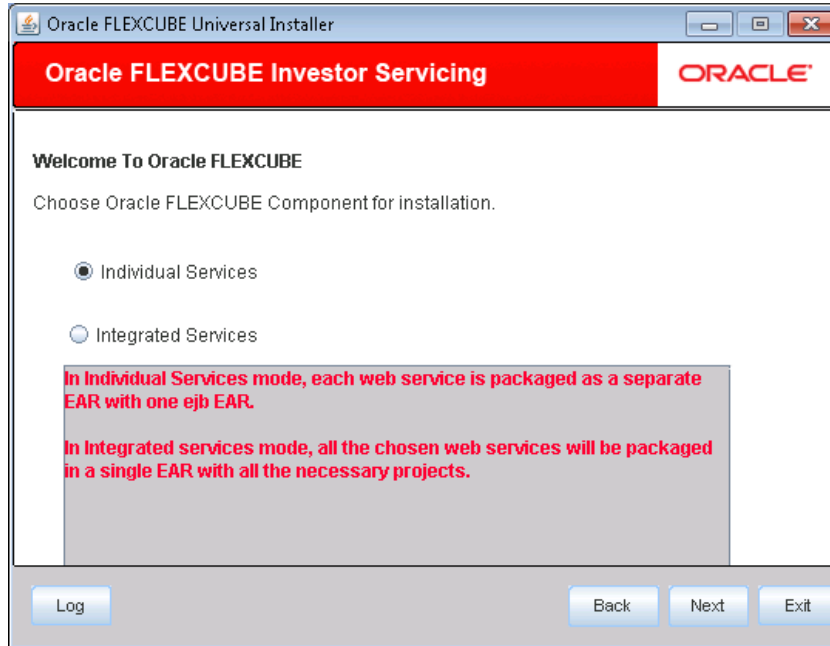
The screen is titled 'Oracle FLEXCUBE Universal Installer 14.4.0.0'. It displays the 'Gateway Property File Creation' section with the instruction 'Choose the Gateway Application Type'. A tree view shows the following options:

- Gateway Application Type
 - Gateway EJB
 - Gateway MDB
 - Gateway Http Servlet
 - Gateway WebServices (highlighted)
 - REST Services

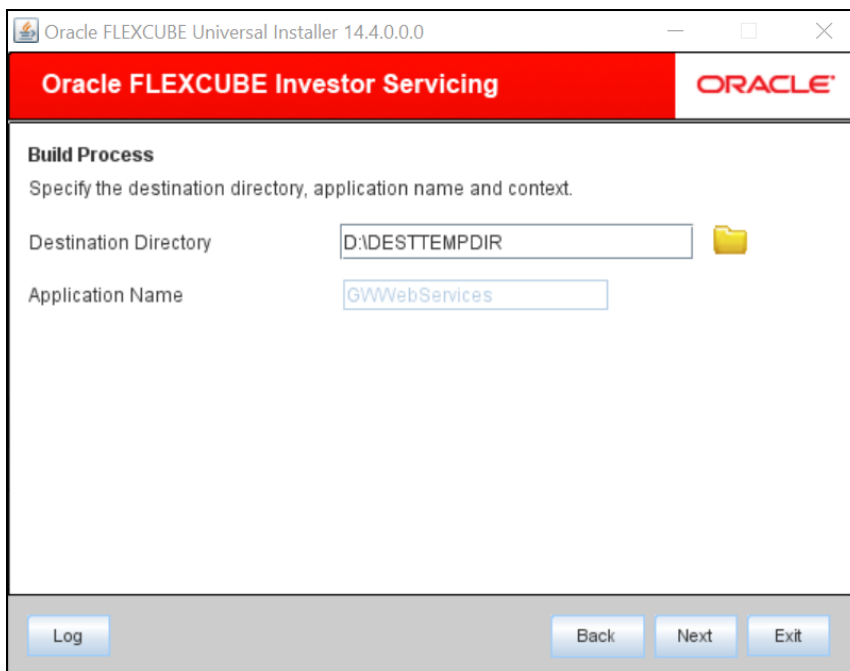
At the bottom of the window, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

5. Choose 'Gateway WebServices'. Click 'Next'.

6. The following screen is displayed: Click 'Next' the following screen will be displayed.



7. Click on next, the following screen appears



Destination Directory

Provide Destination Directory

Application Name

If chosen Individual mode of web services in previous screen then this field is disabled and the name of the web service generated would be the name of the service

Else if selected Integrated, then this field is enabled where user can input required name

Recompilation Required

Check this box if WSDL, XSD files have been modified

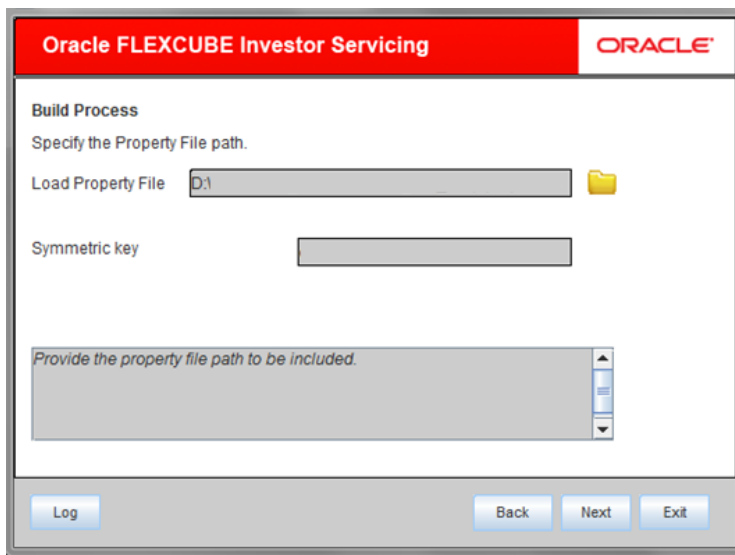
Note: In case of XSD or WSDL web services should be recompiled,

Copy the modified service sources into the service source path (<services_source_path>). Remove the unmodified services and proceed.

In case of FCIS the services sourcepath is 'Source_Dir\GatewayServices\Services-Operations\XSD\<Module>\Gateway\Services'.

8. Once you have specified the details, click 'Next' to continue.

9. The following screen is displayed.



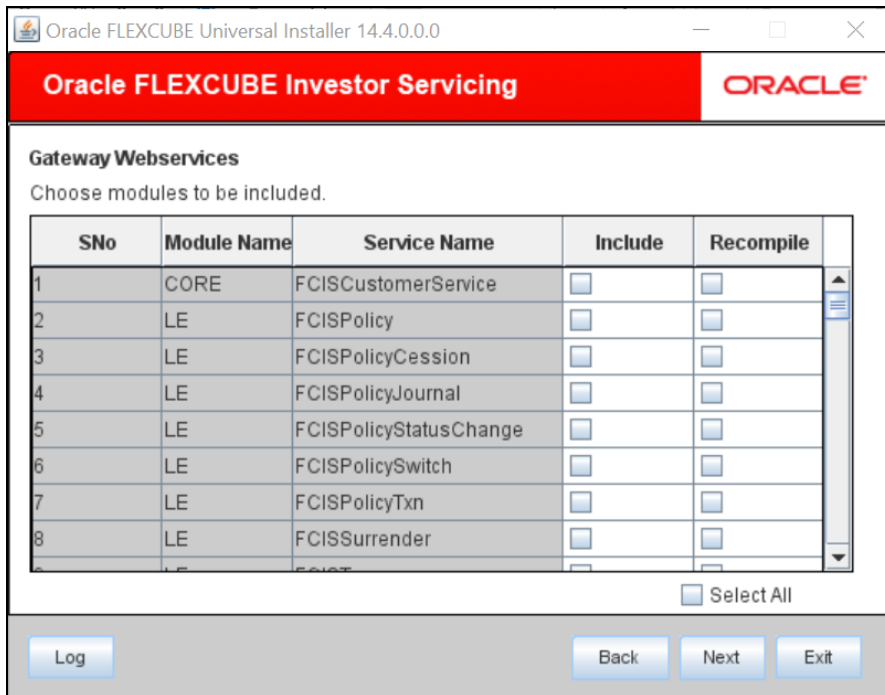
10. Specify the following details:

Centralized Property File

To modify an existing property file, you need to select the exact property file by clicking on the folder icon.

Note: Do not load the Logger.properties file. The installer will load that file automatically based on the property file.

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



Oracle FLEXCUBE Investor Servicing

Gateway Webservices
Choose modules to be included.

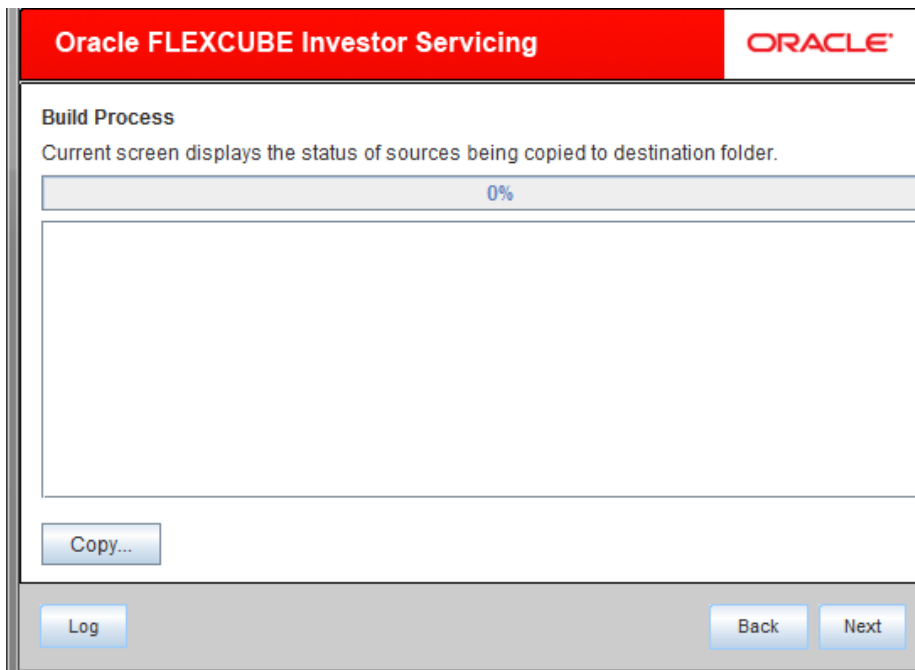
| SNo | Module Name | Service Name | Include | Recompile |
|-----|-------------|------------------------|--------------------------|--------------------------|
| 1 | CORE | FCISCustomerService | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | LE | FCISPolicy | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | LE | FCISPolicyCession | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | LE | FCISPolicyJournal | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | LE | FCISPolicyStatusChange | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | LE | FCISPolicySwitch | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | LE | FCISPolicyTxn | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | LE | FCISSurrender | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Select All

Log Back Next Exit

12. Select the services to be included for Web Services.

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



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Build Process
Current screen displays the status of sources being copied to destination folder.

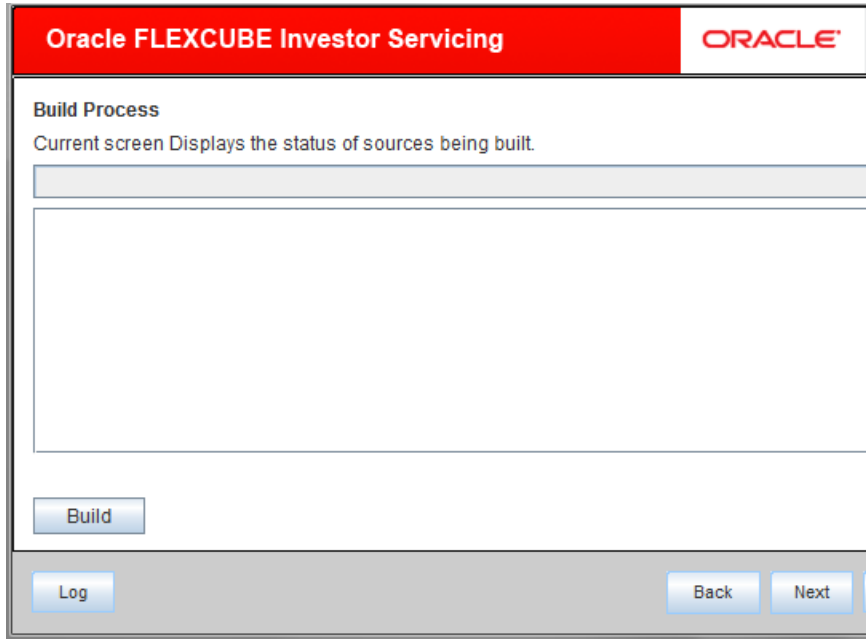
0%

Copy...

Log Back Next

14. Click 'Copy' button. The installer copies the files.

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



16. Click 'Build' button to start the build process. The installer builds the source files.

This completes the EAR file generation process. The EAR file will be saved to the destination directory.

5. Post Building Activity

5.1 Introduction

This section introduces you to the activities to be carried out after setting up the gateway applications.

5.1.1 Gateway Configuration

Gateway application looks for the required files inside the 'XSD Path' and 'Logger File' provided at the time of Gateway Property creation.

Refer [Gateway Property File Creation](#) document for details.

You need to maintain the following files in XSD Path and Logger Path:

| Path | Files |
|-------------|---|
| Logger Path | Logger path should contain the gateway property files generated by the Installer. For example, for Gateway EJB application, the installer generates the files 'gw_ejb_logger.properties' and 'GW_EJB_Prop.properties'. While creating the property file if you specify the 'Logger Path' as 'D:/GW_EJB/config/ gw_ejb_logger.properties', then you need to place both the files 'gw_ejb_logger.properties' and 'GW_EJB_Prop.properties' inside the folder 'D:/GW_EJB/config/'. |
| XSD Path | XSD Path should contain the common XSD files as well as the gateway module specific XSD files which are related to gateway operation. Copy the common XSD files from 'MAIN\Core\Gateway\COMMON' to the XSD Path. Copy the module specific XSD files from 'MAIN/<module>/ Gateway/XSD' to the XSD Path. |

ServerState.xml should be copied in the XSD Directory from
Gateway\Utilities\POSS\ServerState.xml

5.1.2 Deployment Using Oracle WebLogic Application Server

For details on the manual deployment using Oracle WebLogic Application Server, refer to the chapter [Gateway Application Deployment Weblogic](#)

5.1.3 Deployment Using IBM WebSphere Application Server

For details on the manual deployment using IBM WebSphere Application Server, refer to the chapter [Gateway Application Deployment Websphere](#).



Gateway Application Setup
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