

RestService Application Setup
Oracle FLEXCUBE Investor Servicing
Release 14.5.1.0.0
[September] [2021]



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1. Setting up RestService for Oracle FLEXCUBE

1.1 Introduction

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

1.2 Setting up RestService RESTEJB Application

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

1.2.1 Prerequisites

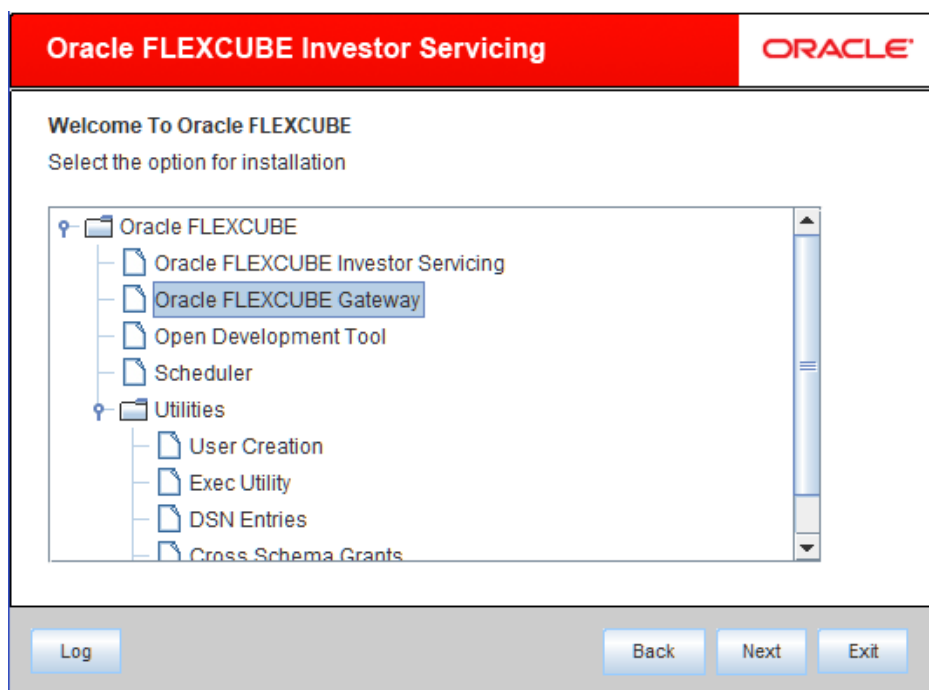
You need to create the following RestEJB property files before building the application:

- GW_RESTEJB_Prop.properties
- gw_restejb_logger.properties

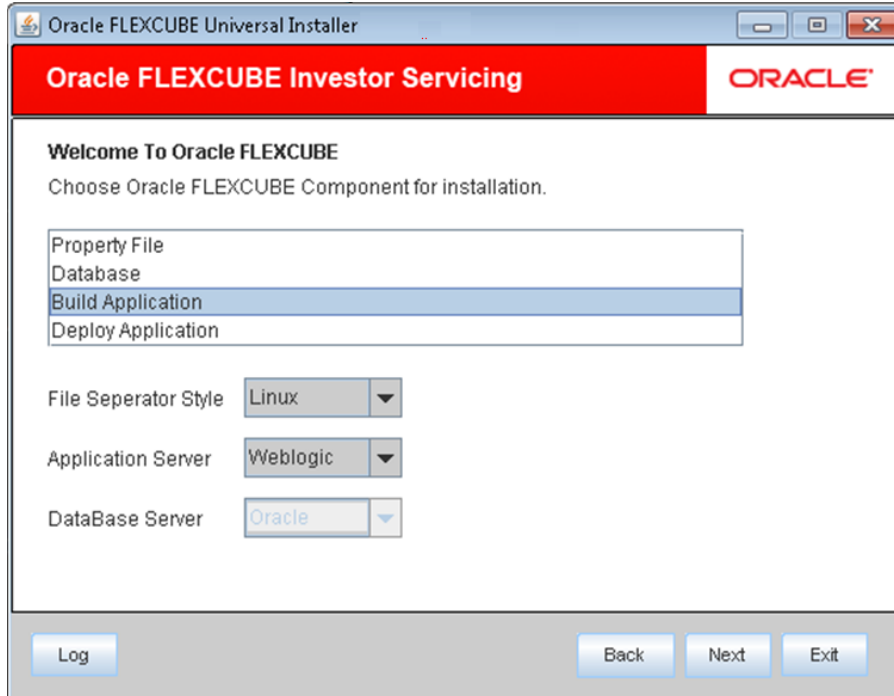
1.2.2 Building EAR File

In order to build EAR file for RestEJB 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.



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



3. Specify the following details:

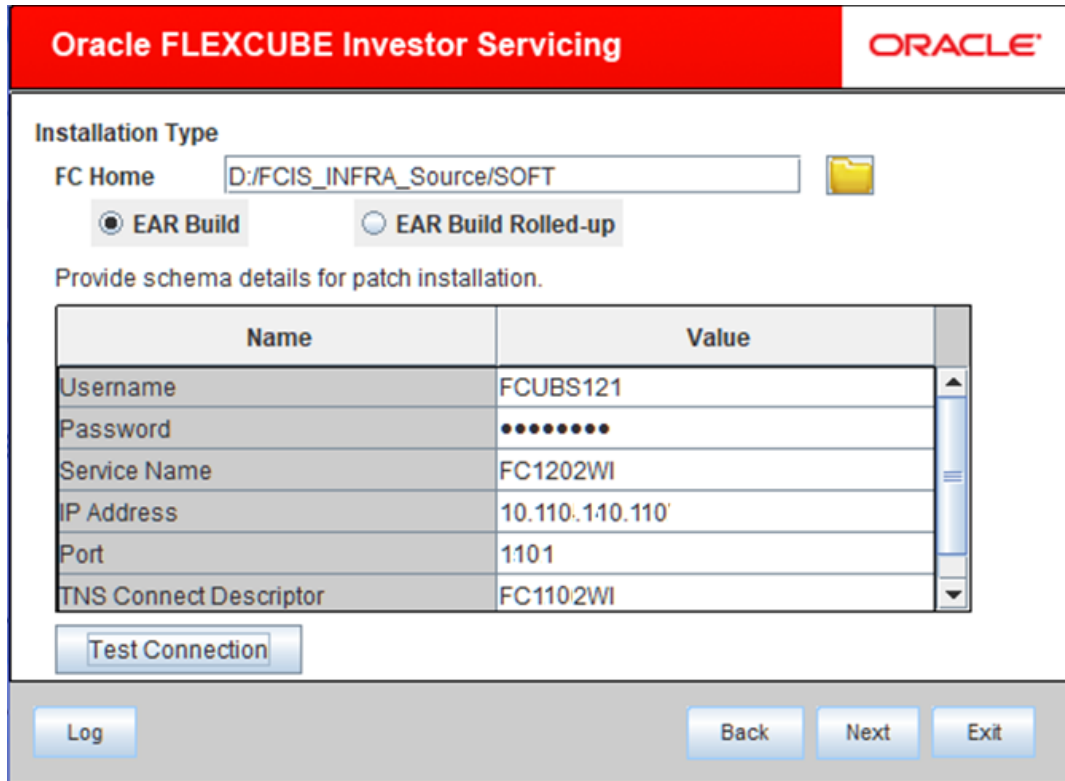
File Separator Style

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.

4. Choose 'Build Application'. Click 'Next'. The following screen is displayed:
5. 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.



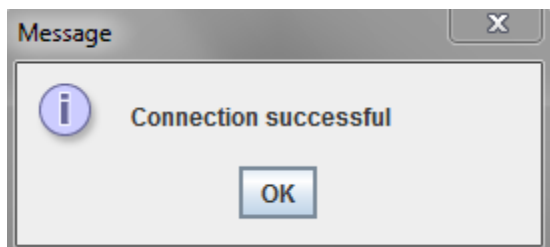
The screenshot shows the 'Oracle FLEXCUBE Investor Servicing' installation window. The 'Installation Type' section has 'FC Home' set to 'D:/FCIS_INFRA_Source/SOFT' and 'EAR Build' selected. Below this, a table for 'Provide schema details for patch installation' contains the following data:

Name	Value
Username	FCUBS121
Password	••••••••
Service Name	FC1202WI
IP Address	10.110.110.110
Port	1101
TNS Connect Descriptor	FC1102WI

At the bottom of the table is a 'Test Connection' button. The window footer contains 'Log', 'Back', 'Next', and 'Exit' buttons.

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

ORACLE®

Valid Patch List

No	Version	Type	Select
1	14.1.0.0	CONSOLE	<input checked="" type="checkbox"/>

Log

Back

Next

Exit

Click Next.

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

6. Choose 'REST Service EJB'. Click 'Next'. Verify all the library are available.

Oracle FLEXCUBE Investor Servicing

ORACLE

Build Process
This screen lists the JARS that are required for compilation

No.	Name	Location	Available
1	javax.ejb_3.2.0.jar	.Library\applicati...	Yes
2	javax.jms-3.1.2.2....	.Library\applicati...	Yes
3	javax.mail-1.4.5.jar	.Library\applicati...	Yes
4	javax.servlet-3.1....	.Library\applicati...	Yes
5	javax.transaction-...	.Library\applicati...	Yes
6	poi-ooxml-schem...	.Library\application	Yes
7	poi-ooxml-3.17.jar	.Library\application	Yes
8	poi-3.17.jar	.Library\application	Yes
9	ziplet-2.3.0.jar	.Library\application	Yes
10	commons-codec...	.Library\common	Yes
11	commons-net-3....	.Library\plugin-q...	Yes
12	commons-transa...	.Library\plugin-q...	Yes
13	quartz-2.3.1-9f9a...	.Library\plugin-q...	Yes

Log

BackNextExit

7. Click Next and provide destination Directory

Oracle FLEXCUBE Investor Servicing

ORACLE

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

Destination Directory

D:\DESTTEMPDIR

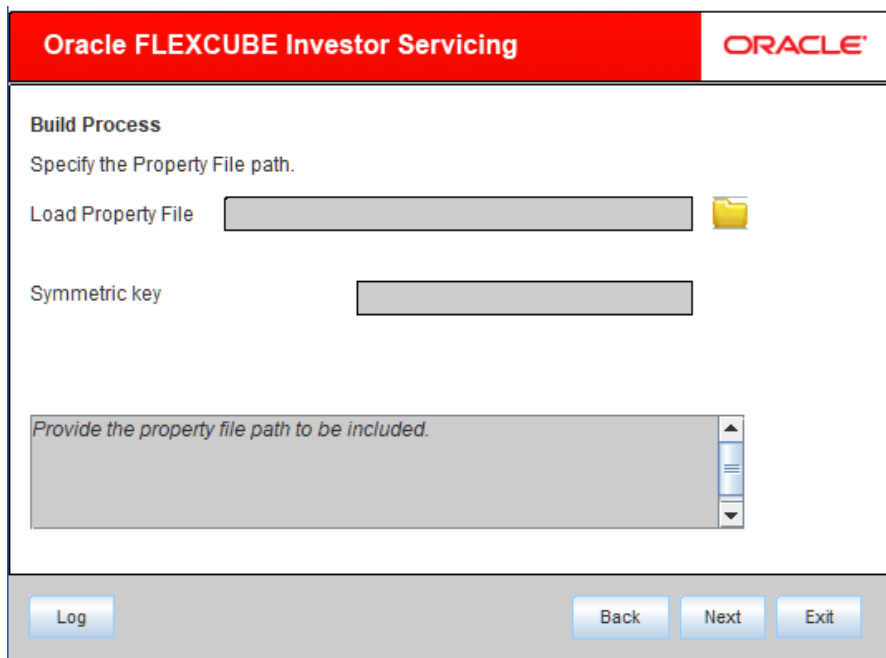
Application Name

GWRestEJB

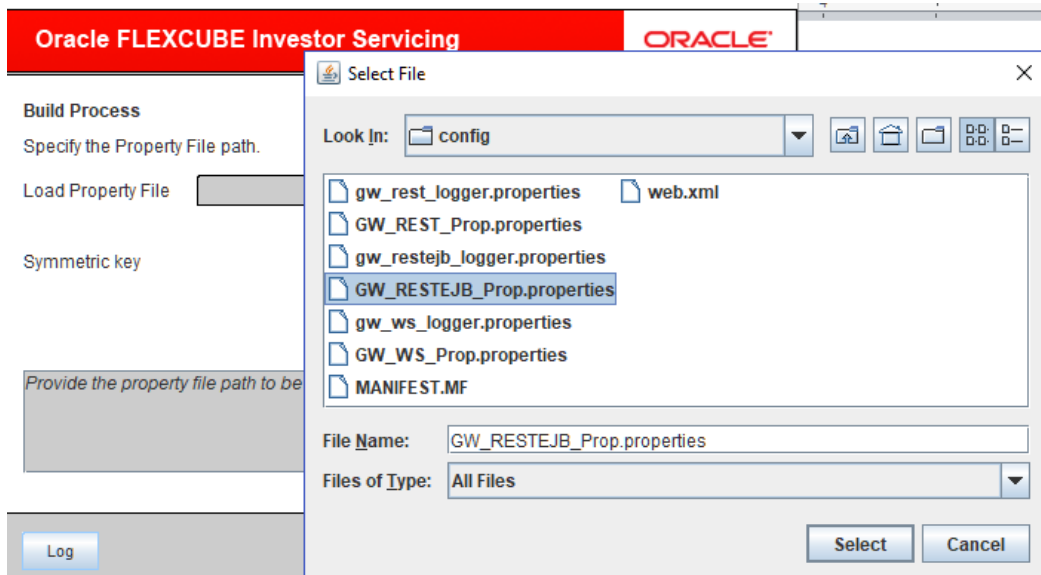
Log

BackNextExit

8. Click Next. Provide the property file for RestEJB



The screenshot shows the 'Build Process' window of the Oracle FLEXCUBE Investor Servicing application. The window has a red header bar with the text 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. Below the header, the text 'Build Process' is displayed, followed by the instruction 'Specify the Property File path.' There are three input fields: 'Load Property File' with a folder icon, 'Symmetric key', and a larger text area with the placeholder text 'Provide the property file path to be included.' At the bottom, there are four buttons: 'Log', 'Back', 'Next', and 'Exit'.

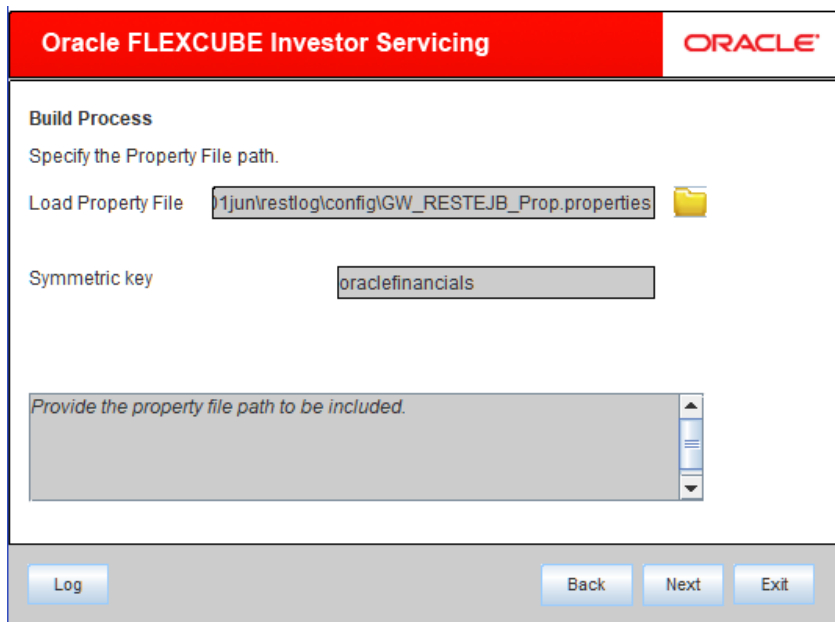


The screenshot shows the 'Build Process' window with a 'Select File' dialog box open. The dialog box has a title bar 'Select File' and a close button. It shows the 'Look In' directory as 'config'. The file list contains the following files: 'gw_rest_logger.properties', 'web.xml', 'GW_REST_Prop.properties', 'gw_restejb_logger.properties', 'GW_RESTEJB_Prop.properties' (which is selected), 'gw_ws_logger.properties', 'GW_WS_Prop.properties', and 'MANIFEST.MF'. The 'File Name' field at the bottom contains 'GW_RESTEJB_Prop.properties' and the 'Files of Type' dropdown is set to 'All Files'. There are 'Select' and 'Cancel' buttons at the bottom right of the dialog. The background window is partially visible, showing the same 'Build Process' form as in the previous screenshot.

The following screen is displayed:

Oracle FLEXCUBE Investor Servicing **ORACLE**

Build Process
Specify the Property File path.

Load Property File 

Symmetric key

Provide the property file path to be included.

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

Oracle FLEXCUBE Investor Servicing **ORACLE**

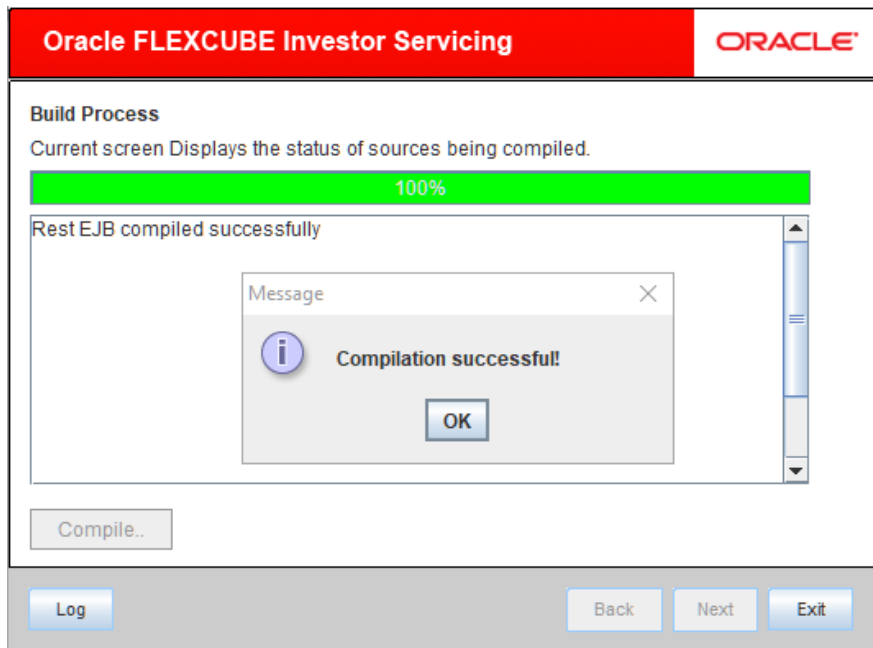
Build Process
Current screen displays the status of sources being copied to destination folder.

100%

333 files in INFRA Copied

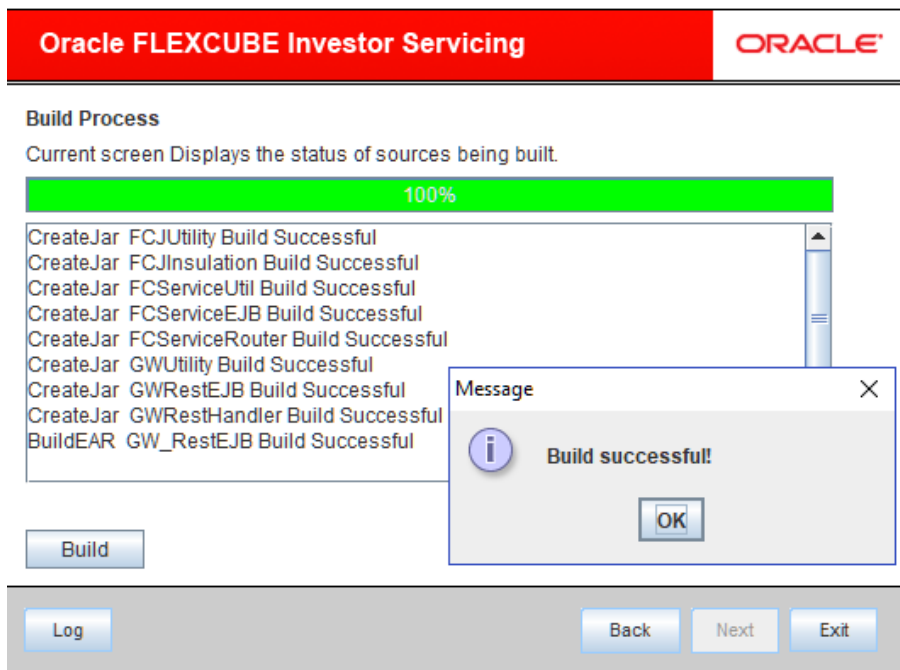
10. Click 'Copy' button. The installer copies the files.

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



12. Click 'Compile' Button.

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



14. 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 Rest Service WebService Application

This section explains the methods of setting up Rest Service Webservice Application.

2.1.1 Prerequisites

You need to create the following Rest Service Webservice property files before building the application:

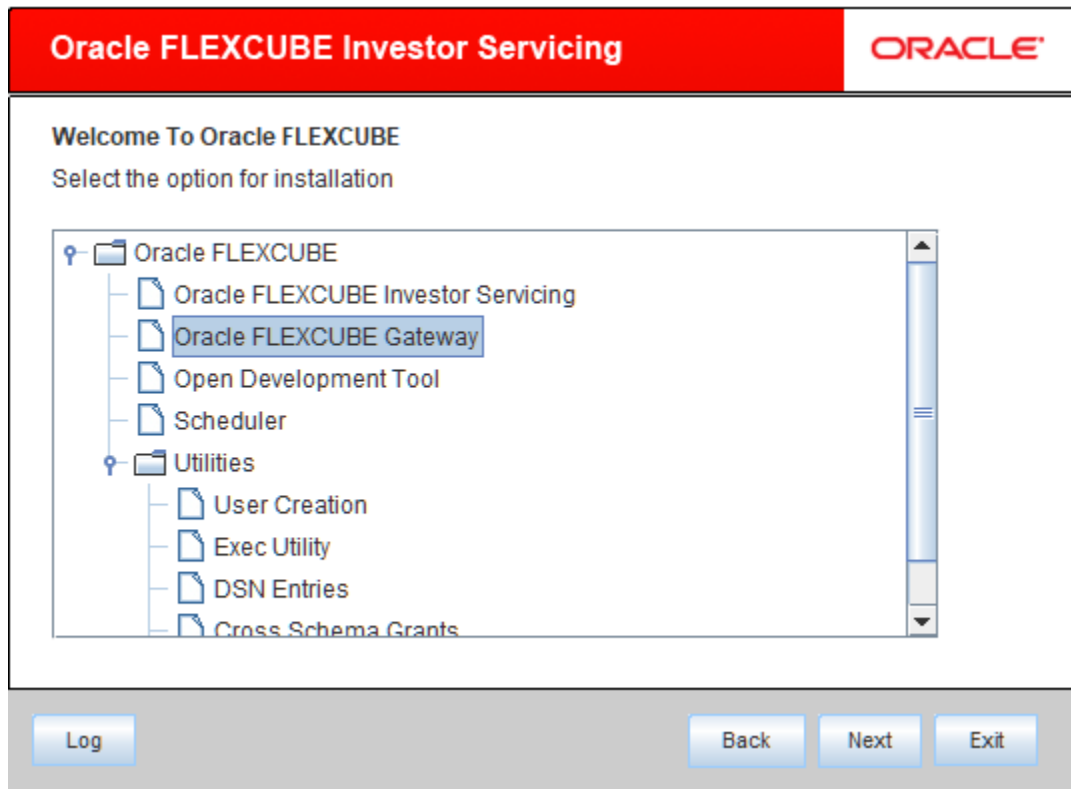
- GW_REST_Prop.properties
- gw_rest_logger.properties

For details, refer to 'RestService_Property_File_Creation'.

2.1.2 Building EAR File

In order to build EAR file for Rest Service Webservice 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:

Oracle FLEXCUBE Universal Installer

Oracle FLEXCUBE Investor Servicing ORACLE

Welcome To Oracle FLEXCUBE
Choose Oracle FLEXCUBE Component for installation.

Property File
Build Application
Deploy Application

File Separator Style Linux
Application Server Weblogic
DataBase Server Oracle

Log Back Next Exit

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 Investor Servicing ORACLE

Installation Type

FC Home D:/FCIS_INFRA_Source/SOFT

☒ EAR Build ☐ EAR Build Rolled-up

Provide schema details for patch installation.

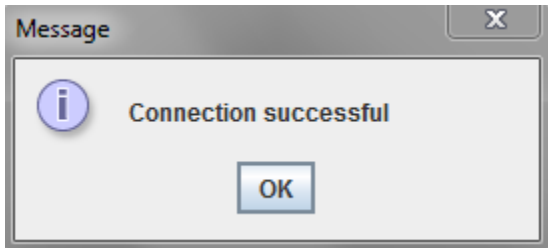
Name	Value
Username	FCUBS121
Password	*****
Service Name	FC1202WI
IP Address	10.110.110.110
Port	1101
TNS Connect Descriptor	FC1102WI

Test Connection

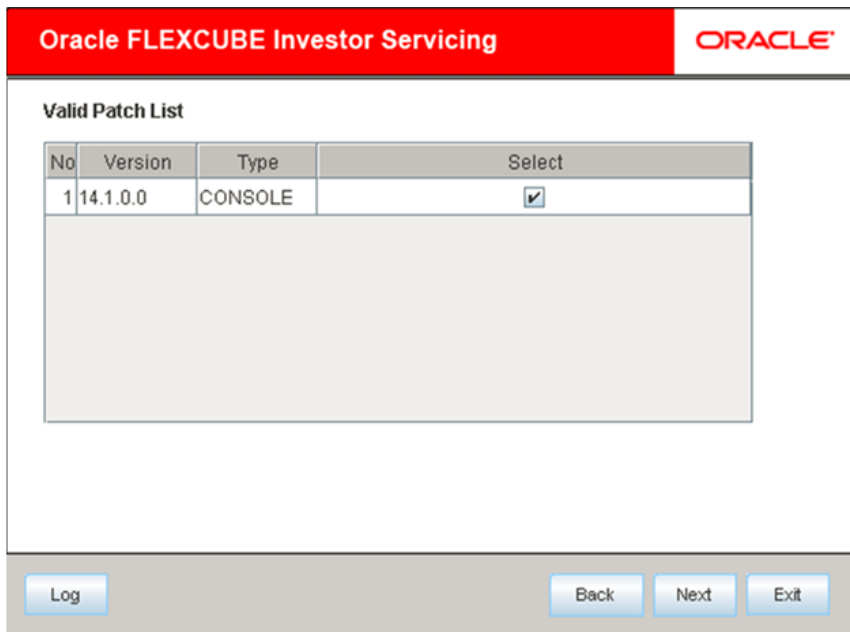
Log Back Next Exit

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

A screenshot of the Oracle FLEXCUBE Investor Servicing application window. The title bar is red with "Oracle FLEXCUBE Investor Servicing" and the Oracle logo. The main content area is titled "Valid Patch List" and contains a table with the following data:

No	Version	Type	Select
1	14.1.0.0	CONSOLE	<input checked="" type="checkbox"/>

Below the table is a large empty rectangular area. At the bottom of the window is a grey bar containing four buttons: "Log", "Back", "Next", and "Exit".

Choose patches from list and click 'Next'. The following screen is displayed:

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

3. Choose 'Rest Service WebService'. Click 'Next'.

Oracle FLEXCUBE Investor Servicing **ORACLE**

Build Process
This screen lists the JARS that are required for compilation


No.	Name	Location	Available
1	javax.ejb_3.2.0.jar	.Library\applicati...	Yes
2	javax.jms-3.1.2.2....	.Library\applicati...	Yes
3	javax.mail-1.4.5.jar	.Library\applicati...	Yes
4	javax.servlet-3.1....	.Library\applicati...	Yes
5	javax.transaction-...	.Library\applicati...	Yes
6	poi-ooxml-schem...	.Library\application	Yes
7	poi-ooxml-3.17.jar	.Library\application	Yes
8	poi-3.17.jar	.Library\application	Yes
9	ziplet-2.3.0.jar	.Library\application	Yes
10	commons-codec...	.Library\common	Yes
11	commons-net-3....	.Library\plugin-q...	Yes
12	commons-transa...	.Library\plugin-q...	Yes
13	quartz-2.3.1-0f9e...	.Library\plugin-q...	Yes

Log Back Next Exit

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

Oracle FLEXCUBE Investor Servicing **ORACLE**

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

Destination Directory 

Application Name

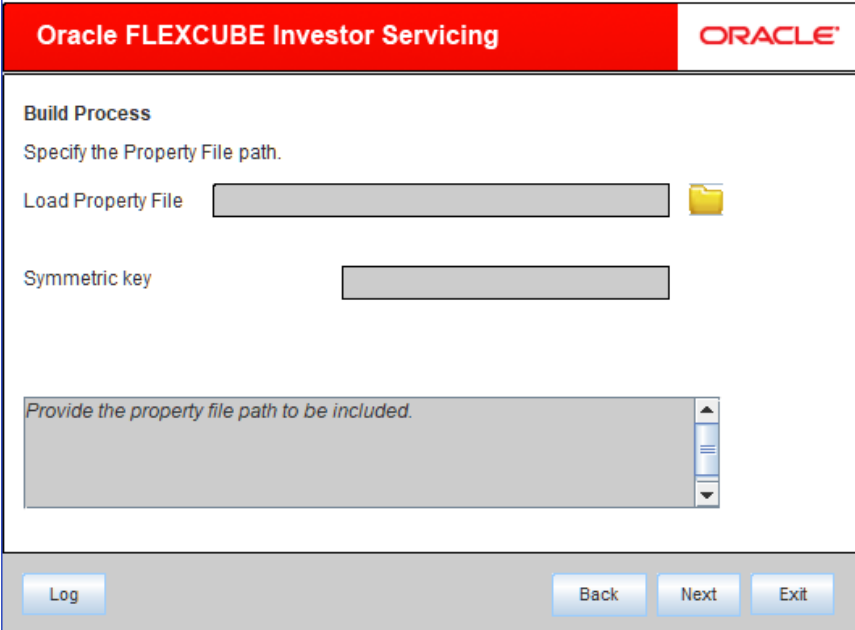
5. Specify the following details:

Destination Directory

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


Eg: D:\

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



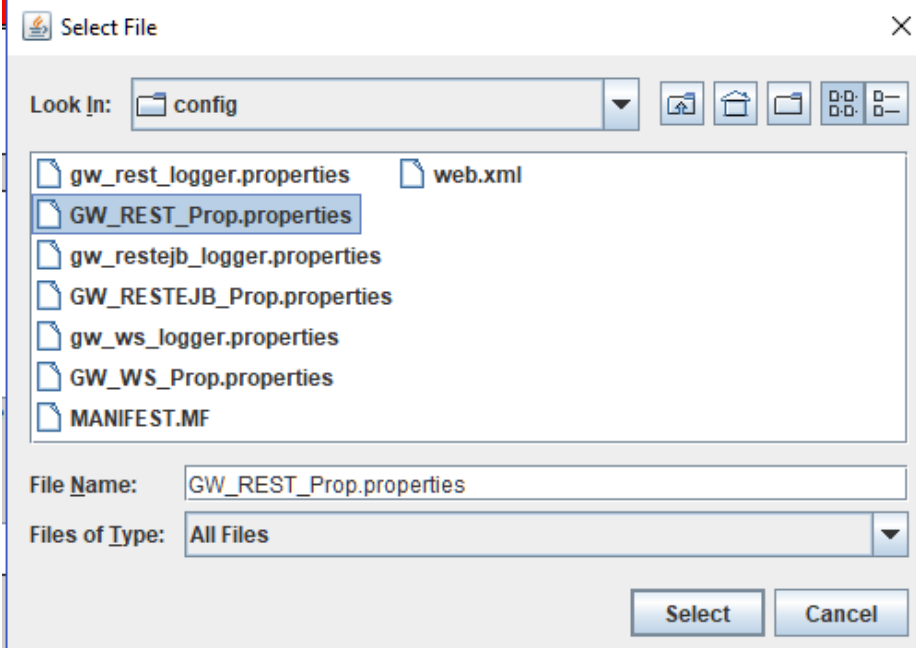
Oracle FLEXCUBE Investor Servicing **ORACLE**

Build Process
Specify the Property File path.






Load Property File 









Symmetric key

Provide the property file path to be included.



Select File

Look In:     

-  gw_rest_logger.properties
-  web.xml
-  **GW_REST_Prop.properties**
-  gw_restejb_logger.properties
-  GW_RESTEJB_Prop.properties
-  gw_ws_logger.properties
-  GW_WS_Prop.properties
-  MANIFEST.MF

File Name:

Files of Type:

The following screen is displayed:

The screenshot shows the 'Build Process' window of the Oracle FLEXCUBE Investor Servicing application. The window has a red header bar with the text 'Oracle FLEXCUBE Investor Servicing' and the 'ORACLE' logo. Below the header, the title 'Build Process' is displayed. The main area contains the following elements:

- A label 'Specify the Property File path.' followed by a text input field containing the path 'ice01jun\restlog\config\GW_REST_Prop.properties' and a folder icon button to its right.
- A label 'Load Property File' followed by the same text input field and folder icon button.
- A label 'Symmetric key' followed by a text input field containing the value 'oraclefinancials'.
- A large text area with the placeholder text 'Provide the property file path to be included.' and a vertical scrollbar on the right.

At the bottom of the window, there is a gray bar containing four buttons: 'Log', 'Back', 'Next', and 'Exit'.

6. 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.

7. Click 'Next'. The following screen is displayed. We can select all the services or we can select an particular service

Oracle FLEXCUBE Investor Servicing

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Gateway Webservices
Choose modules to be included.

Sl....	Module Name	Service Name	Include	Recomp...
1	LE	PolicyService	<input type="checkbox"/>	<input type="checkbox"/>
2	LE	PolicyStatusChangeService	<input type="checkbox"/>	<input type="checkbox"/>
3	LE	PolicySwitchService	<input type="checkbox"/>	<input type="checkbox"/>
4	LE	PolicyTopupService	<input type="checkbox"/>	<input type="checkbox"/>
5	UT	AuthRepService	<input type="checkbox"/>	<input type="checkbox"/>
6	UT	BlockService	<input type="checkbox"/>	<input type="checkbox"/>
7	UT	BrokerService	<input type="checkbox"/>	<input type="checkbox"/>
8	UT	CustomerService	<input type="checkbox"/>	<input type="checkbox"/>

☐ Select All

Log

BackNextExit

Oracle FLEXCUBE Investor Servicing

ORACLE®

Gateway Webservices
Choose modules to be included.

Sl....	Module Name	Service Name	Include	Recomp...
1	LE	PolicyService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	LE	PolicyStatusChangeService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	LE	PolicySwitchService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	LE	PolicyTopupService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	UT	AuthRepService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	UT	BlockService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	UT	BrokerService	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	UT	CustomerService	<input checked="" type="checkbox"/>	<input type="checkbox"/>

☒ Select All

Log

BackNextExit

Click 'Next'. The following screen is displayed:

Oracle FLEXCUBE Investor Servicing					ORACLE®	
Gateway Webservices						
Choose modules to be included.						
SI....	Module Name	Service Name	Include	Recomp...		
16	UT	SwitchService	<input type="checkbox"/>	<input type="checkbox"/>		
17	UT	TransactionService	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
18	UT	TransferService	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
19	UT	UnitholderService	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
20	PA	PASAddressDetailsService	<input type="checkbox"/>	<input type="checkbox"/>		
21	PA	PASAssetClassService	<input type="checkbox"/>	<input type="checkbox"/>		
22	PA	PASBankDetailsService	<input type="checkbox"/>	<input type="checkbox"/>		
23	PA	PASIdDetailsService	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/> Select All			
<div> <input type="button" value="Log"/> <input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Exit"/> </div>						

Oracle FLEXCUBE Investor Servicing					ORACLE®	
Gateway Webservices						
Choose modules to be included.						
SI....	Module Name	Service Name	Include	Recomp...		
16	UT	SwitchService	<input type="checkbox"/>	<input type="checkbox"/>		
17	UT	TransactionService	<input type="checkbox"/>	<input type="checkbox"/>		
18	UT	TransferService	<input type="checkbox"/>	<input type="checkbox"/>		
19	UT	UnitholderService	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
20	PA	PASAddressDetailsService	<input type="checkbox"/>	<input type="checkbox"/>		
21	PA	PASAssetClassService	<input type="checkbox"/>	<input type="checkbox"/>		
22	PA	PASBankDetailsService	<input type="checkbox"/>	<input type="checkbox"/>		
23	PA	PASIdDetailsService	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/> Select All			
<div> <input type="button" value="Log"/> <input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Exit"/> </div>						

8. Click 'Next'

Oracle FLEXCUBE Investor Servicing

ORACLE

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

100%

364 files in INFRA Copied
35 files in REST_WS Copied

Copy...

Log

Back

Next

Exit

9. Click 'Copy'
10. Click 'Next'

Oracle FLEXCUBE Investor Servicing

ORACLE

Build Process
Current screen Displays the status of sources being compiled.

100%

UnitholderService Compiled successfully 1 of 1
Rest webservice compiled successfully

Message

i

Compilation successful!

OK

Compile..

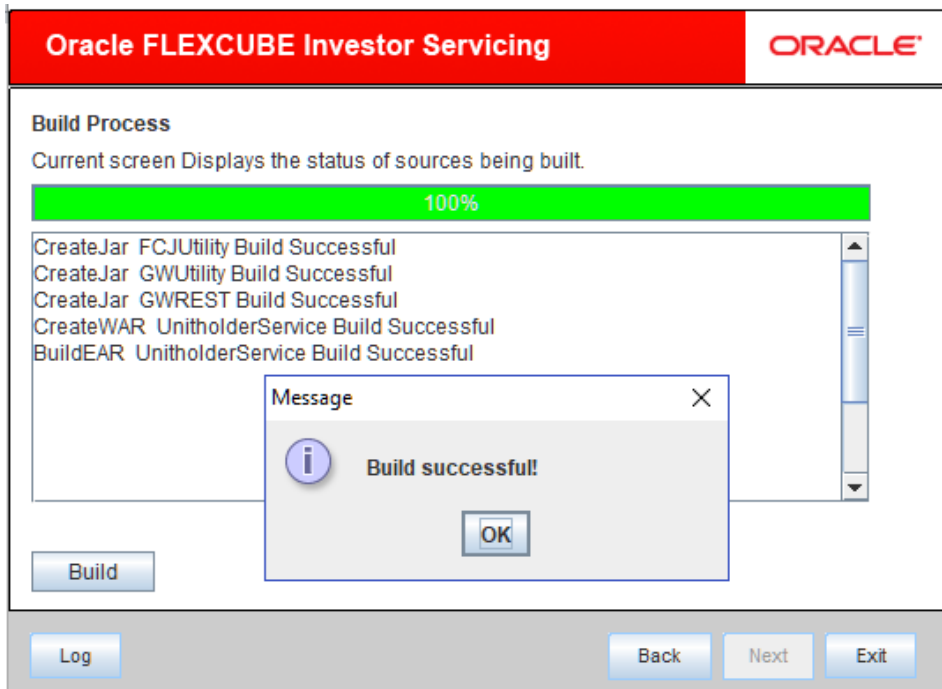
Log

Back

Next

Exit

11. Click 'Compile'. On successful compilation click 'Next'.



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

3. Post Building Activity

3.1 Introduction

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

3.1.1 RestService Configuration

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

Refer Rest Property file generation document for details.

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

Path	Files
Rest EJB Logger Path	Logger path should contain the gateway property files generated by the Installer. For instance, for RestEJB application, the installer generates the files 'gw_restejb_logger.properties' and 'GW_RESTEJB_Prop.properties'. While creating the property file if you specify the 'Logger Path' as 'D:/GW_EJB/config/gw_restejb_logger.properties', then you need to place both the files 'gw_restejb_logger.properties' and 'GW_RESTEJB_Prop.properties' inside the folder 'D:/GW_EJB/config'.
Rest WebService Logger Path	Logger path should contain the gateway property files generated by the Installer. For instance, for RestEJB application, the installer generates the files 'gw_rest_logger.properties' and 'GW_REST_Prop.properties'. While creating the property file if you specify the 'Logger Path' as 'D:/GW_EJB/config/gw_rest_logger.properties', then you need to place both the files 'gw_restejb_logger.properties' and 'GW_REST_Prop.properties' inside the folder 'D:/GW_EJB/config'.

3.1.2 Deployment Using Oracle WebLogic Application Server

For details on the manual deployment using Oracle WebLogic Application Server, refer to the chapter 'Link for RESTService_Deployment_Weblogic.doc to be provided'

3.1.3 Deployment Using IBM WebSphere Application Server

For details on the manual deployment using IBM WebSphere Application Server, refer to the chapter 'Link for RESTService_Deployment_WebSphere.doc to be provided'.



RestService Application Setup
[September] [2021]
Version 14.5.1.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
www.oracle.com/financialservices/

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