Installer Property File Creation
Oracle Banking Treasury Management
Release 14.5.2.0.0
[August] [2021]



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1. Creating Property File for Oracle Banking Treasury Management Installer

1.1 Introduction

This chapter explains the steps to create property file for Oracle Banking Treasury Management using ORACLE Banking Treasury Management Installer Application. While creating this property file, the environment property file also gets generated.

1.2 Creating Property File

To create the property file for Oracle Banking Treasury Management, follow the steps given below:

 Launch Oracle Banking Treasury Management Installer i.e. FCUBSInstaller.bat (for Windows), and FCUBSInstaller.sh(for Linux, bash shell recommended). These files are available in INSTALLER/SOFT/GUI

In the first screen, provide the following details:



i. JAVA HOME PATH

Provide the JDK home path with the latest version.

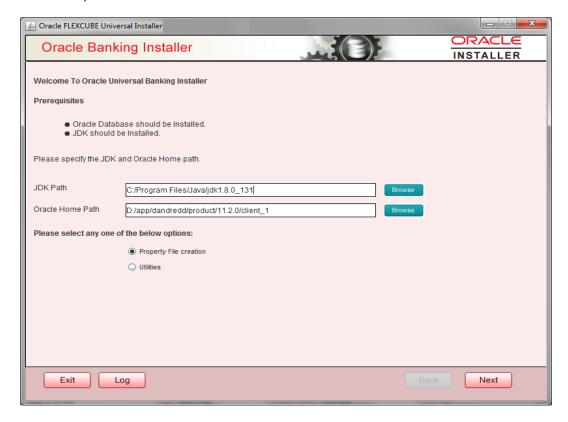
ii. ORACLE HOME PATH

Provide the Oracle 12C Client Path.

III APP SERVER HOME PATH

Provide the app server home path

After providing these details, INSTALLER-GUI gets started. And follow the below details. Ensure the Pre-requisites are available.



Enter the following details

JDK Path

Maintain Home folder path of JDK. The JAVA HOME path given in previous screen gets defaulted.

Oracle Home

Maintain home folder path of Oracle Database Client. The ORACLE HOME path given in previous screen gets defaulted.

Select one of the radio buttons

- 1. Property File creation
- 2. Utilities



Based on the selection, Next screen will be shown .Click Property File creation for the current case.

2. Click 'Next' and the following screen is displayed.



- 1. Select the component for which property file is to be created.
 - a. INFRA is for FCUBS property file creation .To create property file for Scheduler or Gateway or Switch Interface Installation, please refer the respective property file creation document.
- Select Oracle Banking Treasury for Treasury Management Property file creation.
 Select Scheduler which is Standalone, where Scheduler will be Standalone with EAR.
 If Embedded is selected, it will be integrated with the Treasury Management EAR.
- 3. In the screen above, select the Plugins to be included in the application.
- 4. If you need to modify an existing property file, load it using the respective browse button.

Plugins will be enabled and disabled based on the combination of Product Processors and components selected.



These are the plugins available for Oracle Banking Treasury

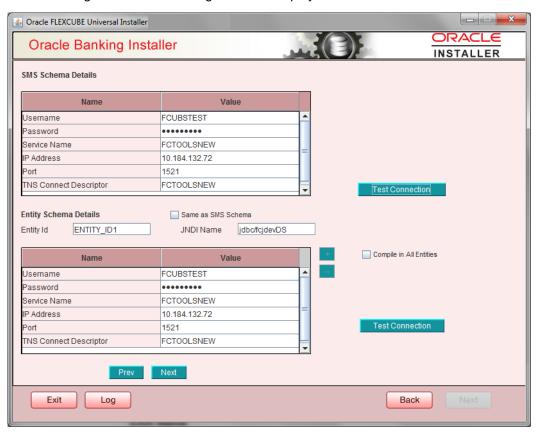
- Scheduler
- Reports

These are the plugins available for Oracle Banking Treasury if co-deployed with Oracle Banking Payments

- Scheduler
- Reports
- o BPEL

You can load existing property-file to make any modifications.

3. Click 'Next' again and the following screen is displayed:



Provide the SMS schema details to capture the credentials which will be used for DB Compilation.

Note: IP Address should be same as mentioned in the TNSnames.ora

Once the connection is successfull env.properties file present in path INSTALLER
SOFT GUI logs env.properties will get updated with schema details in encrypted format.

For Multi-Entity Details →

Scenario for Single Entity:



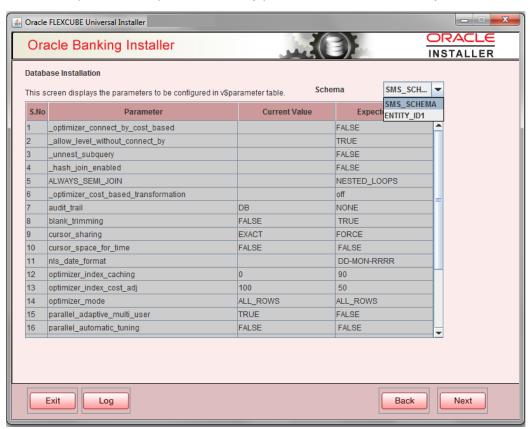
- Here Entity Schema is mandatory, atleast minimum one entry should be provided.
- Entity Id value is default i.e. 'ENTITY_ID1' for first entry.
- Provide the JNDI Name for the ENTITY_ID1. By default the jndi name is 'jdbc/fcjdevDS'
- Give the Schema Details for the Entity1.
- Here Compile In All Entities Field is 'N'. (As using the Single Entity Concept).

Scenario for More than One Entity, i.e. Multi Entity:

- After providing the Single Entity details, click on '+' Add the rows.
- Now give the details for Entity_ID2. Here the field is mandatory.
- Provide the schema details and the JNDI name.
- Next and Prev button is to traverse for entity screens.
- Can also add the entites and delete the entities.
- 4. Click on 'Test Connection' button. After Successful connection click on 'Next' button to proceed and below Screen occurs. This Screen displays database parameters listed in v\$parameter table.

This page is Read only used as reference to know the database parameters.

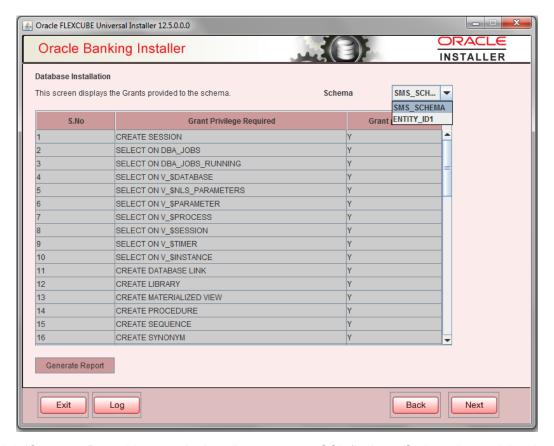
Schema drop down list is provided to verify parameters of SMS and Entity Schemas.



5. Click on 'Next' Button. This screen displays the grants provided to the schema. If object compilation is required and the privilege is not given, then you can find that out from this screen.

Schema drop down lists SMS and Entity Schemas. Select Schema and proceed further.



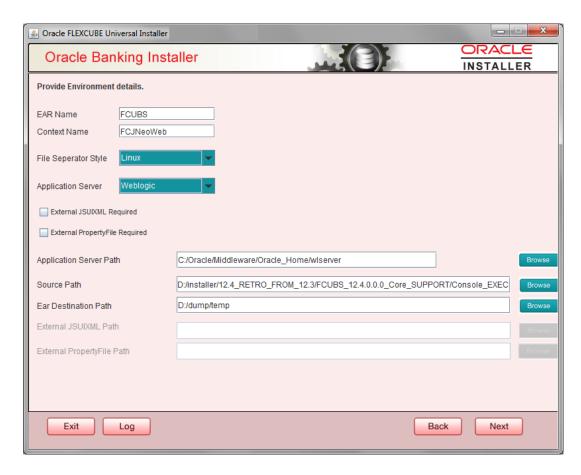


6. Click 'Generate Report' button, the installer creates an SQL file 'grantScript.sql' containing the script for granting the privileges in the 'Logs' folder and the following screen is displayed

You can use this file to get the access.

- Only the sys user can execute the file 'grantScript.sql' for granting privileges.
- 7. Click 'Next' again and the following screen is displayed:





EAR Name

Specify a name for the Application to be deployed.

You cannot use special characters such as '.' (Dot), ',' (comma), '\$' etc. However, you may use '_' (underscore). – Applicable for both Windows and Linux.

Context Name

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

This information will be updated in 'application.xml'. In case of a WebLogic server, this will be updated in 'weblogic.xml'.

File Separator Style:

Specify the type of file separator (For example: Linux or Windows). Select 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. Select the appropriate one from the adjoining drop-down list. For WebSphere, External JSUIXML Required option is not supported.



External JSUIXML Required

Specify whether screen changes will be deployed as External JSUIXML for the application.

EXTERNAL JSUIXML REQUIRED=Y/N: Depending on requirement

EXTERNAL_JSUIXML_REQUIRED=N: JS and UIXML files are included inside the application EAR.

EXTERNAL_JSUIXML_REQUIRED=Y: JS and UIXML and HELP files are kept in an external path in the application server.

External Property File Required

Specify whether screen changes will be deployed as External fcubs.properties for the application.

EXTERNAL_PROPERTY_PATH_REQUIRED =Y/N: Depending on requirement

EXTERNAL_PROPERTY_PATH_REQUIRED =N: fcubs.properties file is included inside the application EAR.

EXTERNAL_PROPERTY_PATH_REQUIRED =Y: fcubs.properties file is kept in an external path in the application server.



External property file path should have the property file name also with it.

For example: C:\App\fcubs.properties

Application server path

Provide the Application Server Path.

Source Path

Provide the source path of the console exec directory. (Mention exact folder name after unzip the source)

Ear Destination path

Specify the path where Ear needs to be copied after building it using SOFT Installer.

External JSUIXML Path

In case External JSUIXML Required option is checked, External JSUIXML path on the application server machine has to be specified here. External JSUIXML required option is supported only for Weblogic Application Server. EXTERNAL_JSUIXML_PATH: ex:-

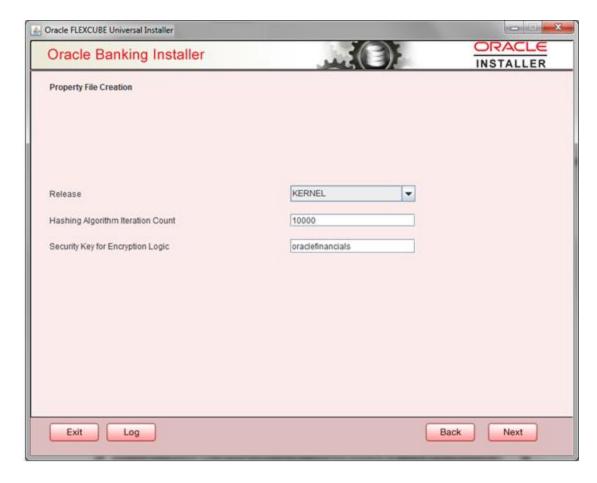
/scratch/work_area/DEV/FC124_UBS/JS_UIXML_HELP -this can be any path in the Application server.

External Property File Path

In case External Property File required option is checked, External Property File path on the application server machine has to be specified here. ss

8. Click 'Next' to continue and following screen is displayed:





Release

Specify the release in which you are creating the property file. Default Option would be 'KERNEL'. The valid options are:

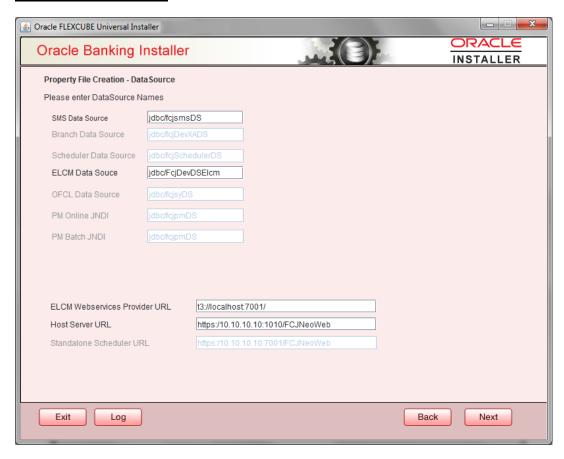
KERNEL

Specify the Hashing algorithm iteration count. By default it is 1000.

'Security Key for Encryption Logic' is the key (exact 16 characters) for all encryption logic. By default is 'oraclefinancials'.



1.2.1 <u>Custom Installation</u>



- 1. Please enter Data sources required which will be asked as per the product, Plug-in and Component combinations chosen in the first screen.
- 2. Sms Datasource will be always enabled as it is required for most of the cases.
- 3. Host Server is the server where Treasury Management application is deployed/to be deployed.
- 4. Standalone scheduler URL will be enabled if Standalone option is selected. The URL of the standalone scheduler should be given here.

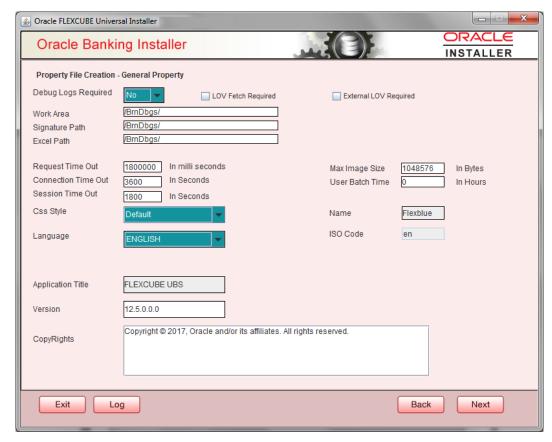
Click next to proceed to the next screen.

1.2.2 <u>Setting General Properties</u>

This section describes the process of setting common properties of Oracle Banking Treasury Management Payments.

The installer displays the 'General Property' screen.





Specify the following details:

Debug Logs Required

If debug option is required, select 'Yes' from the drop-down list. If not required, select 'No'. By default the value is 'No'.

Note:

Parameter APPLICATION_WORK_AREA in fcubs.properties will be updated to "Work Area" path provided during installation.

Parameter DEBUG will be updated based on "Debug Logs Required" selection.

To log debug for the user, following should be available.

- · In Day 0 Setup CSTB_PARAM table will be appended with parameter name WORK_AREA and path provided for debug logs
- · CSTB_DEBUG table should have entries for required modules.
- Corresponding user entries should be input in CSTB_DEBUG_USERS.

Example: If SM module log is enabled for the user, then there should be an entry in cstb_debug_users.

Table: CSTB_DEBUG_USERS (User Level)

Module	Debug	User ID
SM	Υ	XYZ

Table: CSTB_DEBUG (Bank Level)



Module	Debug
SM	Υ

All the configuration will be done using back-end scripts, which can be executed by Data Controller.

Snapshot of 'fcubs.properties' is displayed below:

```
##### COMMON PROPERTIES ####

APPLICATION_NAME=FCJ

APPLICATION_EXT=FCROFC

APPLICATION_SERVER=WL

APPLICATION_WORK_AREA=/scratch/work_area/DEV/FC125R2/APPLOGS

DEBUG=Y

SSL_ENABLED=Y

OPSS_AVAILABLE=N

BRANCH_CENTRALIZED=Y

REQUEST_TIME_OUT=1800000
```

Change Logs can be visited to view audit information.LOV Fetch Required

If you check this box, the option lists in Oracle Banking Treasury Management displays the matching values based on the first characters that you enter in a field. If you specify the first three characters of a value to be entered in an option list and tab out, the system displays the complete list of values that are matching the first three characters.

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

External LOV Required

If you check this box, External Lov option for external Limits in Banking Treasury Management will be enabled.

Work Area

Specify the work area.

For example: D:\BrnDbgs\

Signature Path

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

Excel Path

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

Request Time Out

Specify the database request timeout value in milli seconds. This is the maximum number of seconds the database waits for a query to return the result.By default it is 1800000 milli seconds.



Connection Time Out

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

Session Time Out

Enter the session time out value in seconds. This is the maximum number of seconds during which the application gets active without any user intervention. If there is no user intervention continuously for the duration specified here, the user session gets expire.

Max Image Size

Specifies the maximum image size that can be uploaded. The default size is 1048576 bytes.

CSS Style

Specify the CSS style to be used from the adjoining drop down list. You can select one of the following CSS styles:

- Default select this to apply the default style provided along with Oracle Banking Treasury Management
- Custom select this to apply a custom style

Name

Specify the name of the CSS style.

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

Language

Specify the language in which you wish to see Oracle Banking Treasury Management UBS. ENGLISHis the default language. However, based on the requirement, you can set a different language. Select 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.

For example: Banking Treasury Management UBS

Version

Specify the application version.

For example: 14.0.0.0.0

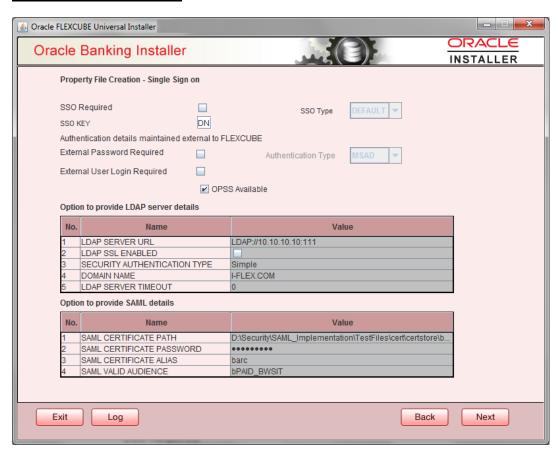
CopyRights

Specify the copyright details.

For example: Copyright © 2017, Oracle and/or its affiliates. All rights reserved.



1.2.3 Setting Single Sign on



Specify the following details:

SSO Required

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

SSO Type

This is disabled. This is enabled on selecting SSO Required Flag. Specify the SSO Type from the list of following:

- (i) DEFAULT
- (ii) TOKEN
- (iii) SAML

By default, 'DEFAULT' optionis selected; however, you can change it.

IF SAML is selected, SAML details table below will be enabled .Please enter SAML details such as Certificate Path, password, alias and valid audience.



SSO KEY

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

If you have checked the box 'SSO required', the Installer skips the following two screens and directly navigate to the SSL screen shown below in this manual.

If you have not checked the box 'SSO required', then on clicking the 'Next' button, the screen for enabling SSL options is displayed:

External Password Required

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

If LDAP is selected, table related to LDAP will be enabled .Please enter LDAP server URL,SSL enabled,Security authentication type,Domain Name and LDAP Server timeout details.

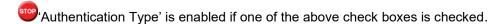
By default, this check box is unchecked. However, you can change this.

External User Login Required

Check this box to enable user login using MSAD/LDAP/ user ID. If you check this box, the user can login using MSAD/LDAP/ server user ID as well as using FCUBS user ID.

If you do not check this box, the user can login using FCUBS user ID only.

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



Authentication Type

Select the authentication type from the adjoining drop-down list. This is the type of external server that is used for authentication. This option is enabled only when External Password Required checkbox is checked. You can select one of the following options:

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

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

Specify the following details.

OPSS is available only for weblogic and is not supported for Websphere.

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

SSL Enabled

SSL Enabled is checked by default.

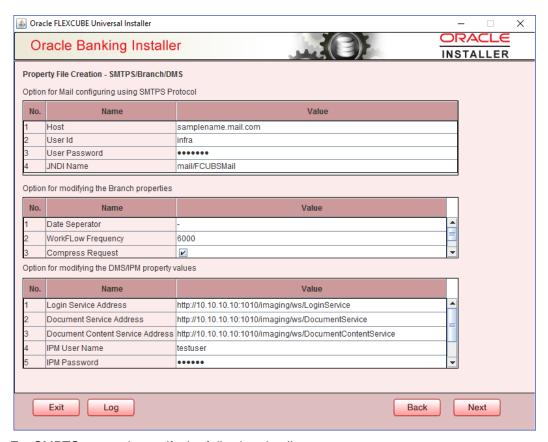


Click 'Next' and the next screen gets displayed.

1.2.4 <u>Setting SMTPS(Email) details</u>

This section describes the method to configure email details, whichever is required.

The following screen is displayed:



For SMPTS protocol, specify the following details.

Host

Specify the SMTP host name.

User ID

Specify the user ID.

User Password

Specify the user password.

JNDI Name

Specify the JNDI name.

In the next table specify the branch properties like Date Seperator, WorkFLow frequency, Compress Request as required.



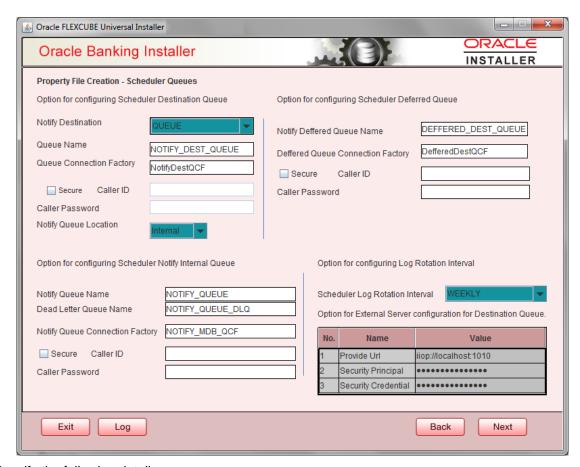
Once you have specified the above details, click 'Next' and system displays the next screen.

1.2.5 Configuring Scheduler

If "Scheduler Standalone" is chosen during plug-in selection time, all the below screens mentioned under scheduler configuration will "not be applicable".

This section describes the method to configure scheduler data source.

1. System displays the following screen:



Specify the following details:

Scheduler Log Rotation Interval

Select the interval between each rotation of scheduler log. Given options are – DAILY, WEEKLY and MONTHLY.

Notify Destination

Specify the notify destination. Select 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.

Secure

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

Specify the following details:

Notify Deffered Queue Name

Set 'DEFFERED DEST QUEUE' as the notify differed queue name.

Deffered Queue Connection Factory

Set 'DefferedDestQcf' as the deffered queue connection factory.

Secure

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

Specify the following details:

Notify Queue Name

Set 'NOTIFY QUEUE' as the notify queue name.

Dead Letter Queue Name

Set 'NOTIFY QUEUE DLQ' as the dead letter queue name.

Notify Queue Connection Factory

Set 'NOTIFY MDB QCF' as the notify queue connection factory.

Secure

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

Notify Queue Location

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

- Internal
- External

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

If you choose 'External' following details for the external queue will be enabled



Provider URL

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

1010 is the default IIOP port.

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

Security Principal

Specify the login ID to access the application server.

Security Credentials

Specify the password to access the application server.

Click 'Next' to proceed with scheduler configuration.

If you choose 'Internal' as the 'Notify Queue Location', this screen is not displayed.

9. Click 'Next' and the following screen is displayed:



1.2.6 Setting Scheduler EMS Properties



Specify the following details:

Incoming Dead Letter Queue Name

By default 'EMS QUEUE DLQ' is set as the incoming dead letter queue name, retain the same.

Incoming backup Queue Name

By default 'EMS_QUEUE_BACK' is set as incoming backup queue name, retain the same

Incoming Queue Connection Factory

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

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

'EmsQcf' is given as default value for the incoming queue connection factory.

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

By default 'EMS QUEUE DLQ' is set as outgoing dead letter queue name, retain the same

Outgoing Queue Connection Factory

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

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

'EmsQcf' is given as default value for the outgoing queue connection factory.

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

Specify the URL of the outgoing queue.

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

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

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



Application Server	EMS Out Initial Context Factory
	Here, 1010 represents the default iiop port

Queue Principal

Specify the queue principal.

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

Queue Credential

Specify the 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 incoming queue name for which EMS is configured. By default EMS_INQUEUE is specified.

Outgoing Queue Name

Specify the outgoing queue name for which EMS is configured. By default EMS_OUTQUEUE is specified.

SFMS Incoming Queue

Specify the SFMS Incoming Queue for which EMS is configured. . By default SFMS_INQUEUE is specified.

RTGS Incoming Queue

Specify the RTGS incoming Queue for which EMS is configured. By default RTGS_INQUEUE is specified.

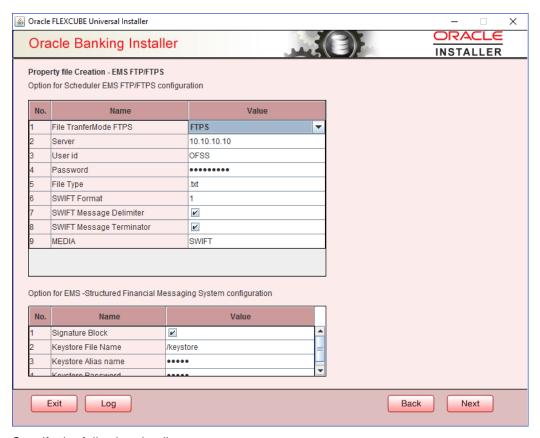
EMS Bulker Queue

Specify the Bulker Queue name. By default**BULKER_QUEUE** is specified, retain the same. So that in fcubs.properties file, EMS_BULKER_QUEUE field gets updated to '**BULKER_QUEUE**' value.

Once you have specified the above details, click 'Next' and system displays the next screen.



1.2.7 Setting EMS FTP/FTPS Properties



Specify the following details:

File Transfer Mode FTPS

Specify the mode of transferring files to EMS. Enterone of the following:

- FTPS (FTP over SSL)
- SFTP(Secure FTP)
- HTTP(Hyper Text Transfer Protocol)

Note - FTP is File Transfer Protocol

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 FORMAT

Specify the SWIFT format.

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.

Once you have specified the above details,

Specify the EMS- Structured Financial Messaging System configuration details:

Signature Block

Check this box to enable signature block.

Keystore File Name

Specify the keystore file name.

Keystore Alias Name

Specify the keystore alias name.

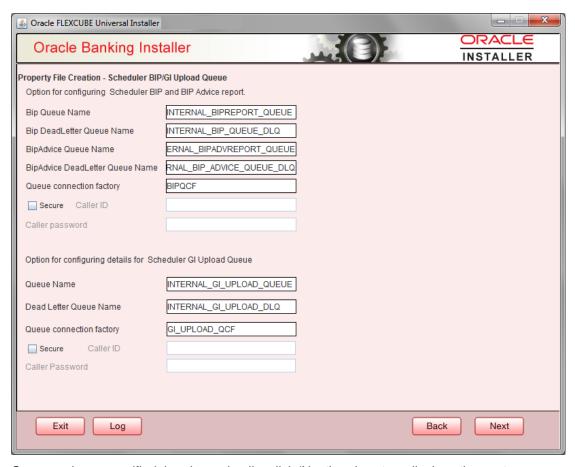
Keystore Password

Specify the keystore password.

Once you have specified the above details, click 'Next' and system displays the next screen



1.2.8 Setting Scheduler BIP/GI Upload Queue Properties

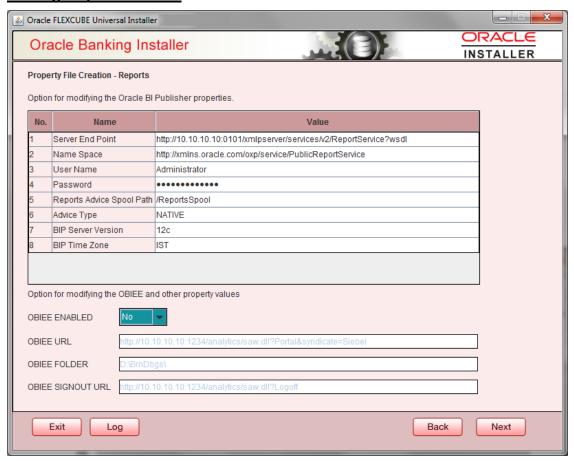


Once you have specified the above details, click 'Next' and system displays the next screen.

If scheduler is not selected, you will be skipped to the next screen directly from the OFTW details screen.



1.2.9 Setting Reports details



For BI Publisher properties,

This table will be enabled only if REPORTS_ENABLED plug-in is selected.

Specify the following details:

Server End Point

Specify the BIP end point.

http://whf00blq:9502/xmlpserver/services/v2/ReportService?wsdl. However, you need to change the IP and port where BIP Application is installed. WSDL URL gets modified based on "BIP Server Version" on selecting the required version from the dropdown.

Name Space

Specify the BIP name space.

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

User Name

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



Password

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

Reports Spool Path

Specify the reports spool path. By default, the Installer displays /ReportsSpool

Advice Type

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

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

BIP Server Version

Specify the qualified BIP server version. You can select the appropriate one from the adjoining drop-down list.

BIP Time Zone

Specify the time zone of the BIP server.

OBIEE properties will be always shown.

OBIEE Enabled

Chose Yes/No from the drop down box.

OBIEE URL

Provide OBIEE URL path.

OBIEE Folder

Provide a folder path at the application server level.

OBIEE Signout URL

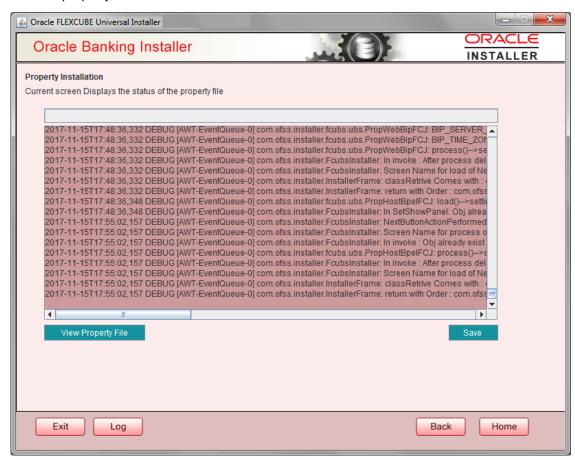
Provide OBIEE signout URL.



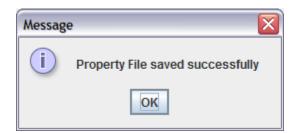
1.2.10 Saving Property File

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

1. Save the property file.



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



This completes the properties file creation. Along with the property file creation, env.properties file is also generated in \INSTALLER\SOFT\GUI\logs path and will be automatically copied to \INSTALLER\SOFT\logs folder.

Note: Env.properties file parameters gets updated during every property file creation (like OBTR, Gateway, Scheduler etc). After Property file creation, proceed with respective EAR build and then proceed with other components property file creations and build.





Installer Property File Creation [August] [2021] Version 14.5.2.0.0

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