

Installer Database Setup
Oracle FLEXCUBE Universal Banking
Release 14.2.0.0.0
[December] [2018]



Table of Contents

- 1. INSTALLING ORACLE FLEXCUBE DATABASE2**
- 1.1 INTRODUCTION2
- 1.2 CREATING SCHEMA BY IMPORTING FULL DUMP2
- 1.3 CREATING SCHEMA FROM SHIPMENT MEDIA2
- 1.4 BACKEND SETUP USING SILENT INSTALLER2
- 1.5 BASIC SETUP USING GUI INSTALLER.....3
 - 1.5.1 *Day Zero Setup – Normal Configuration Mode*.....4
 - 1.5.2 *Approot Object Conversion – Application Root Configuration Mode*.....14
 - 1.5.3 *Day Zero Setup – Application Root Configuration Mode*.....22

1. Installing Oracle FLEXCUBE Database

1.1 Introduction

Oracle FLEXCUBE database can be installed in one of the following methods.

- Import full dump – Import the Oracle FLEXCUBE objects into an empty schema using full dump. This is a manual activity.
- From shipment media – Load the shipment media objects into an empty schema using Installer.

These methods are discussed in detail under the following heads.

1.2 Creating Schema by Importing Full Dump

Under this method, you need to manually import the Oracle FLEXCUBE DMP file into the Oracle FLEXCUBE schema. This can be done using the following command:

```
$impdp user_name/password directory=dir_name dumpfile=dmp_file_name.dmp  
logfile=dmp_file_name.log remap_schema=from_schema_name:to_schema_name  
remap_tablespace=from_tablespace_name:to_tablespace_name transform=OID:n
```

1.3 Creating Schema from Shipment Media

Under this method, you need to create the schema from the shipment media.

1.4 Backend Setup using Silent Installer

Backend Setup has to be done using Silent Installer. DDL Compilation, Object Compilation and Static Data Load will be taken care as part of Backend Setup.

Before loading objects into the schema, fcubs.properties file creation must be performed with the required database details using the GUI installer (Refer [FCUBS Property File Creation.pdf](#)). After the property file is created, env.properties file, present in INSTALLER/SOFT/GUI/logs/ directory, will be automatically updated, with the details provided while creating the property file.

Env.Properties file present in INSTALLER/SOFT/GUI/logs/ will be automatically copied to INSTALLER/SOFT/logs/ directory as part of property file creation. Details from this env.properties are taken for further steps.

Run the <Product Processor>DBCompileRun.bat from INSTALLER/SOFT directory. DDL Compilation, Object Compilation and Static Data load will be done.

For Example: ROFC INSTALLATION-

First load SMS objects first and then ROFC objects. i.e.

- a. Run SMSDBCompileRun.bat in windows (SMSDBCompileRun.sh in Linux). Note: Before running DB Compilation of any sort, please make sure that System Date Time format and language are provided as English, or otherwise DB Compilation might fail due to improper log names.

- b. After SMS object loading is completed, then initiate ROFC compilation Run ROFCDBCompileRun.bat in windows (ROFCDBCompileRun.sh in Linux)

<**Product Processor**>DBCompileRun.bat – PMDBCompileRun.bat (PMDDBCompileRun.sh) for Payments, ROFCDBCompileRun.bat (ROFCDBCompileRun.sh) for ROFC, POJOLoadRun.bat (POJOLoadRun.sh) for POJO Compilation and so on.

Check for the Invalid Count and make sure that the Invalid count is '0'. Please run Invalid Recompilation script (fast.sql), if required. Please provide number of threads and schema name as input while running the script.



fast.sql

For Cluster: As part of FCUBS_14.0.0.0.1 patch set Mexico Localization changes are released in cluster mode. So from FCUBS_14.0.0.0.1 patch onwards if any site wants to consume these changes, needs to run the ROFCDBCompileClusterRun.bat in windows (ROFCDBCompileClusterRun.sh in Linux).

This is for KERNEL as well as cluster objects in DB schema.

1.5 **Basic Setup using GUI Installer**

Oracle FLEXCUBE Universal Installer will list the Utilities based on the Configuration mode selected.

Utilities – Normal Configuration Mode

When the configuration mode is selected as 'Normal', existing list of utilities will be displayed.

- Day Zero Setup
- User Creation
- Reports DSN Entries
- Entity Details
- SMS DSN Entries
- Switch Monitor Installation
- Env Property file operations

Day zero setup of normal configuration mode will be explained in detail in this document.

Utilities – Application Root Configuration Mode

When "Application root - PDB model configuration" is selected, the below options are listed

- Approot Object Conversion
- Day Zero Setup
- User Creation
- Reports DSN Entries
- Entity Details
- SMS DSN Entries

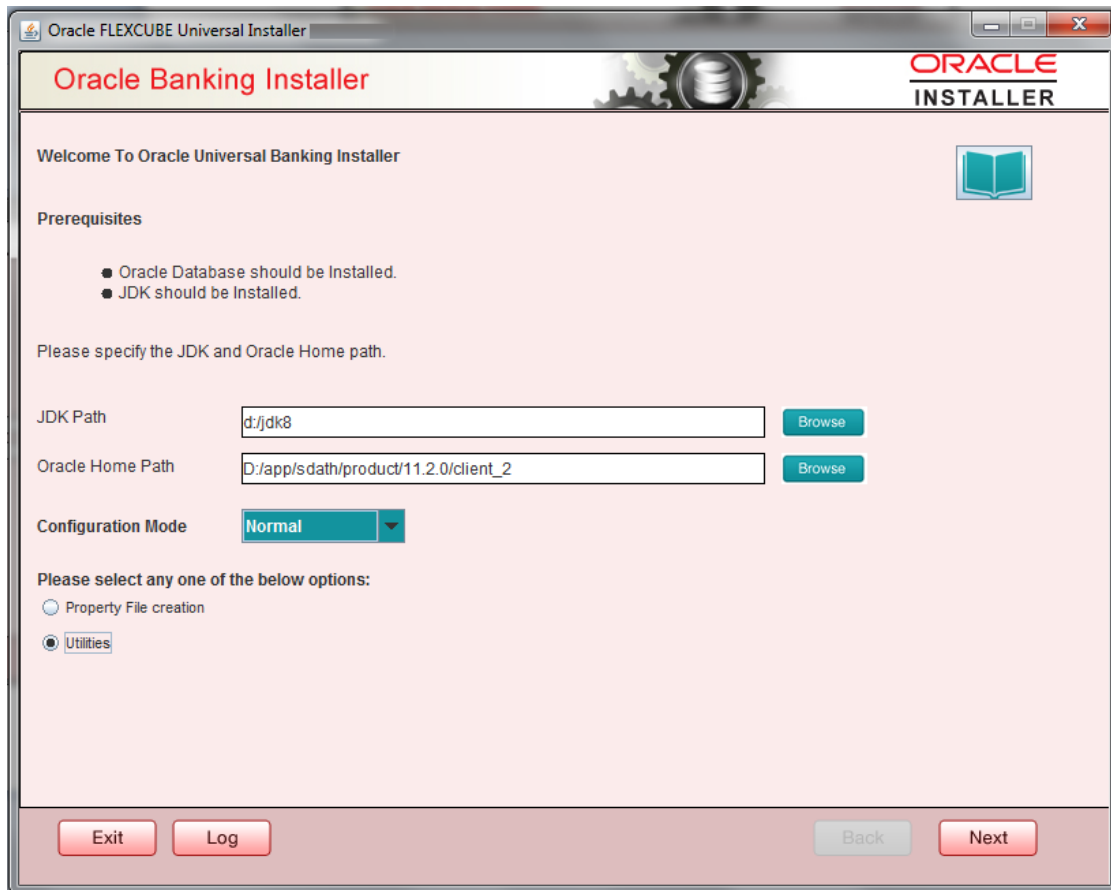
- Switch Monitor Installation
- Env Property file operations

Approot Object Conversion and Day zero setup will be explained in this section in detail.

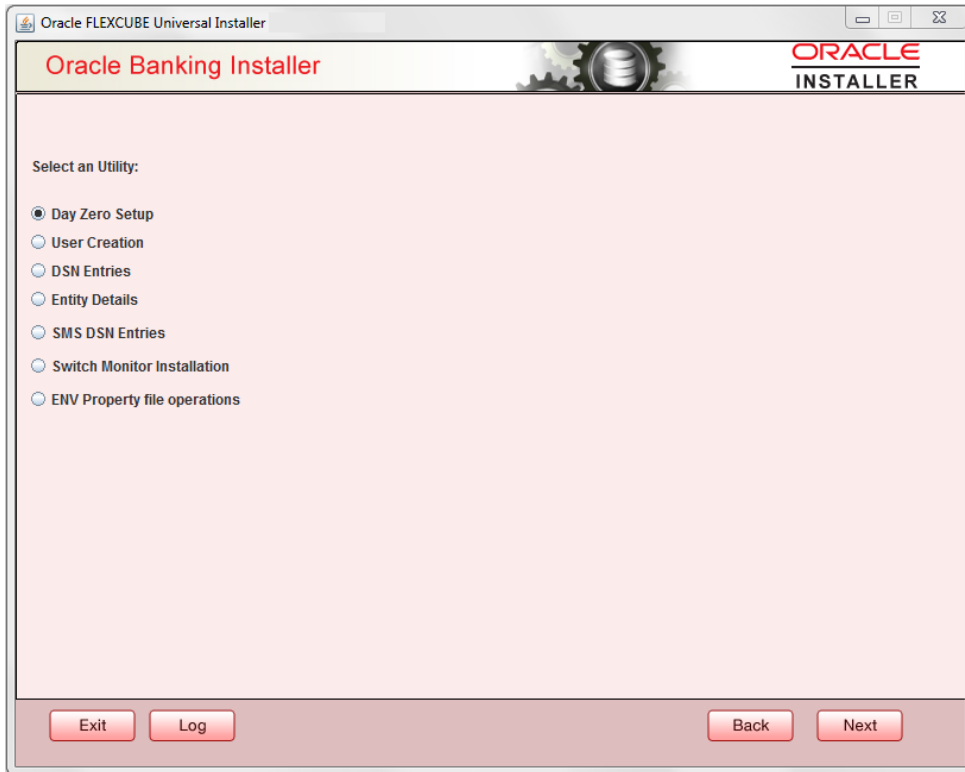
1.5.1 Day Zero Setup – Normal Configuration Mode

The steps to load objects from the shipment media are given below:

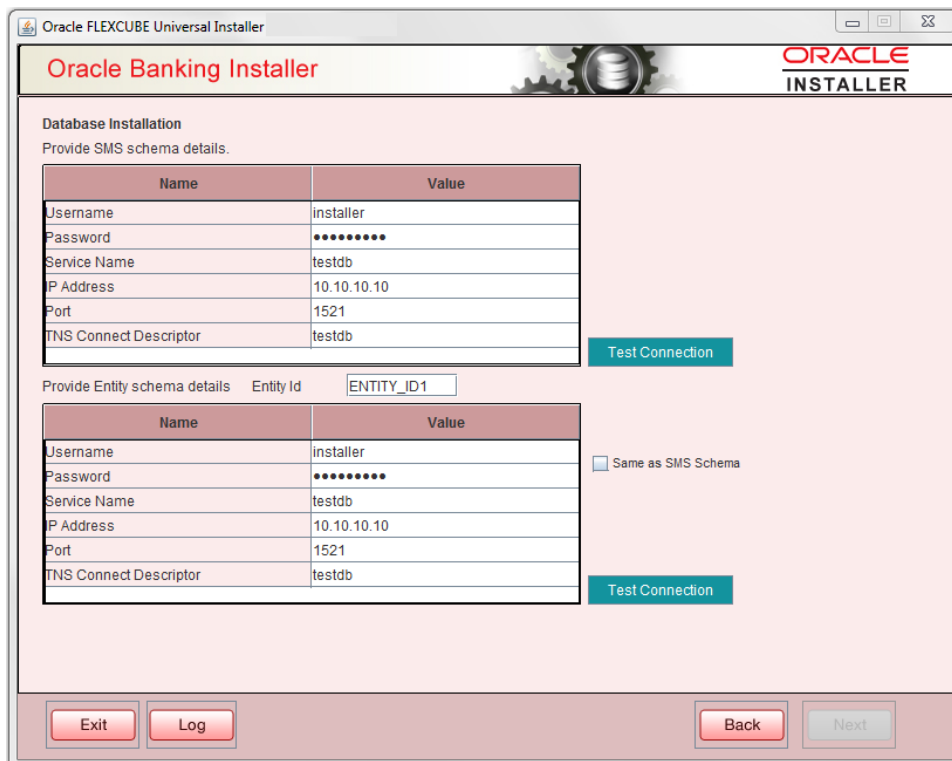
1. Double-click 'FCUBSInstaller.bat' batch file to launch Oracle FLEXCUBE Universal Installer. The following screen is displayed. Select Configuration mode as 'Normal' and select Utilities option and click 'Next' button.



2. Select 'Day Zero Setup' in Utility Screen and click 'Next' as shown below.



3. Click 'Next' and in the below screen.
4. ROFC Schema details to be entered.



Specify the following schema details:

User Name

Specify the user name to access the schema.

Password

Enter the schema password.

Service Name

Provide service name of database.

IP Address

Specify the IP address of the system where the database schema is installed.

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

Port

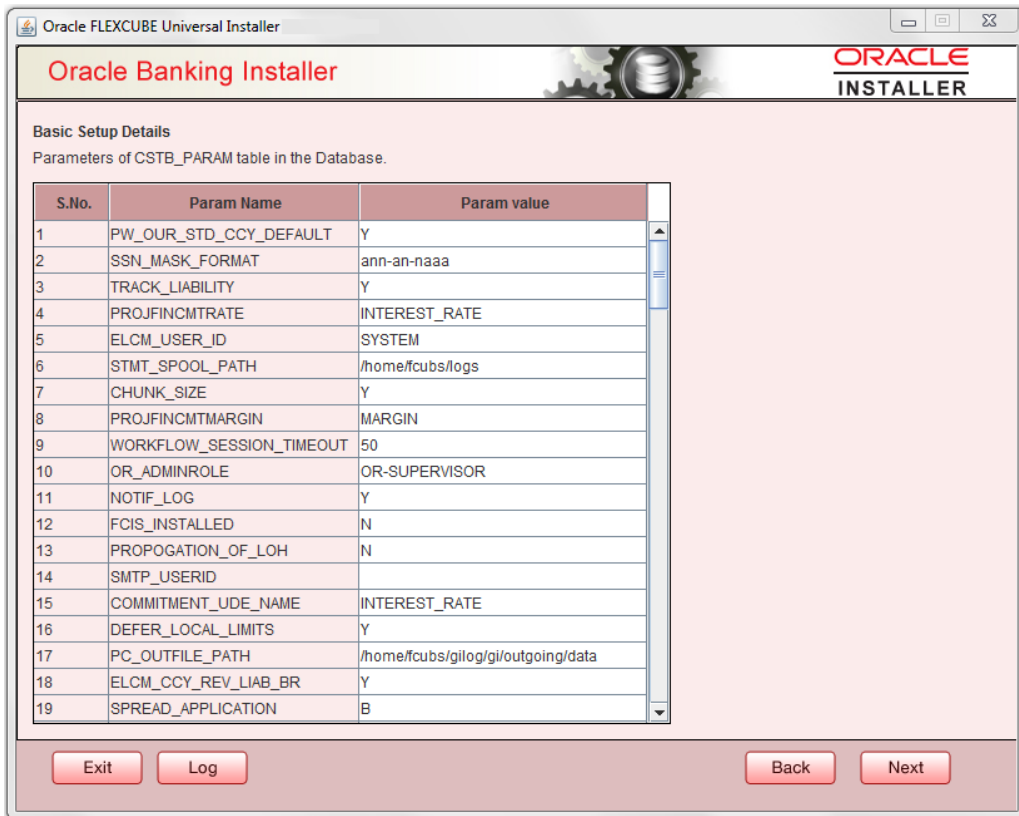
Specify the port number.

TNS Connect Descriptor

Specify the TNS Connect Descriptor.

- 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).

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



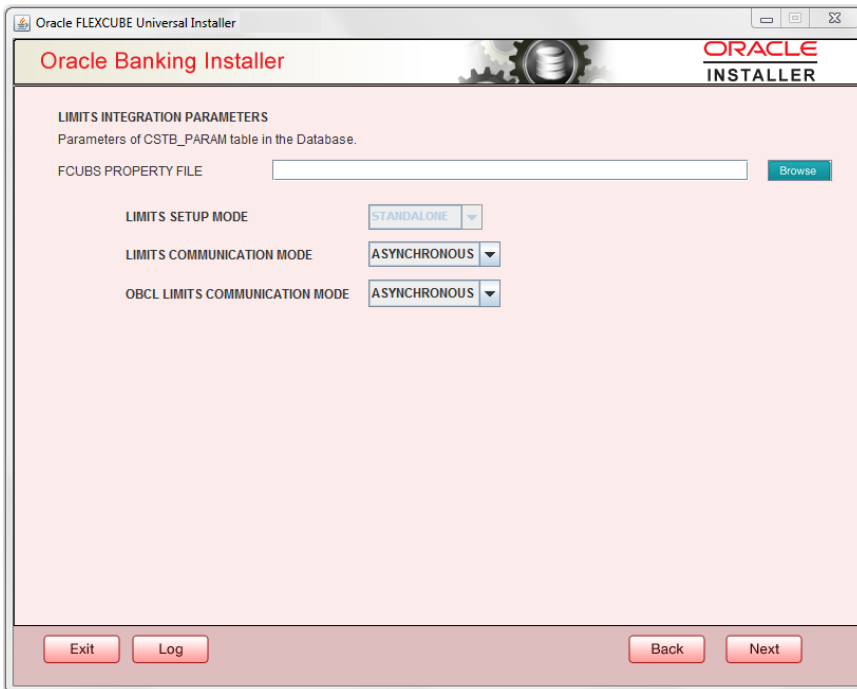
Screen displays basic setup details for table 'CSTB_PARAM'.

Here Oracle directory name (present in all_directories table in the schema) must be added for WORK_AREA and TRACE_AREA. Oracle directory name must be added for other required parameters also.

Oracle directory creation in the schema can be done as below :

Create or replace directory dir_name as 'directory_path';

6. Click on 'Next' button to display Limits integration Parameters Screen as shown below:

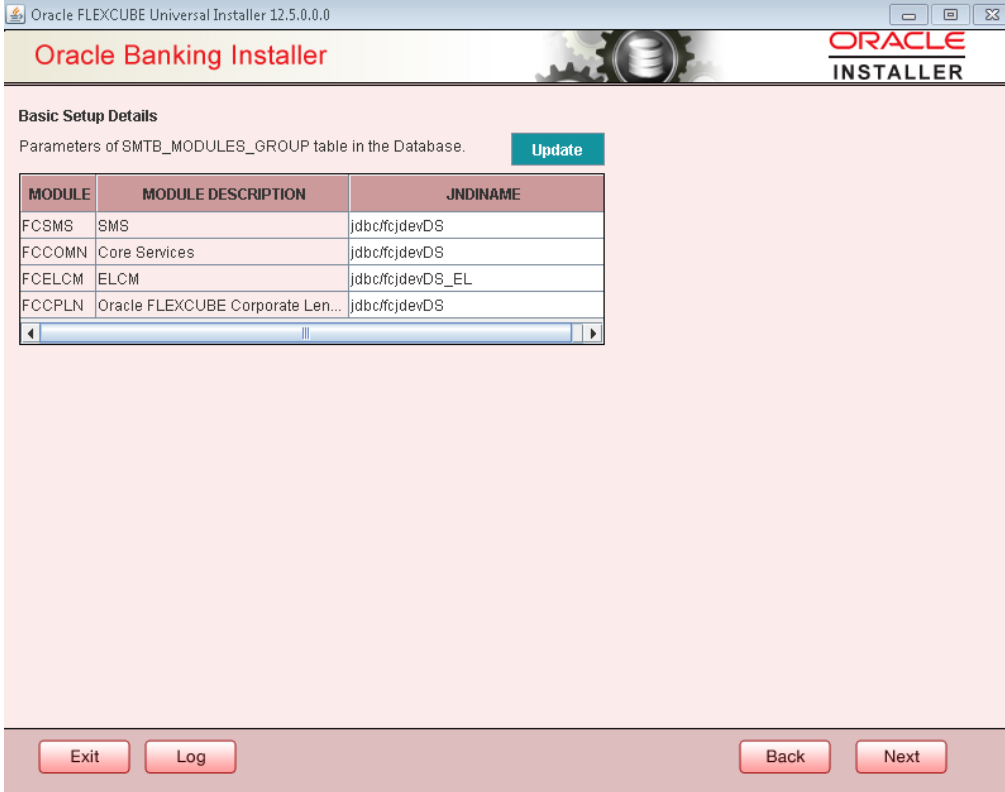


Limits Integration Parameters will be set based on values read from fcubs.properties file browsed. In case of ELCM Embedded, Limit Communication mode will be Asynchronous by default. These parameters will be updated in CSTB_PARAM table.

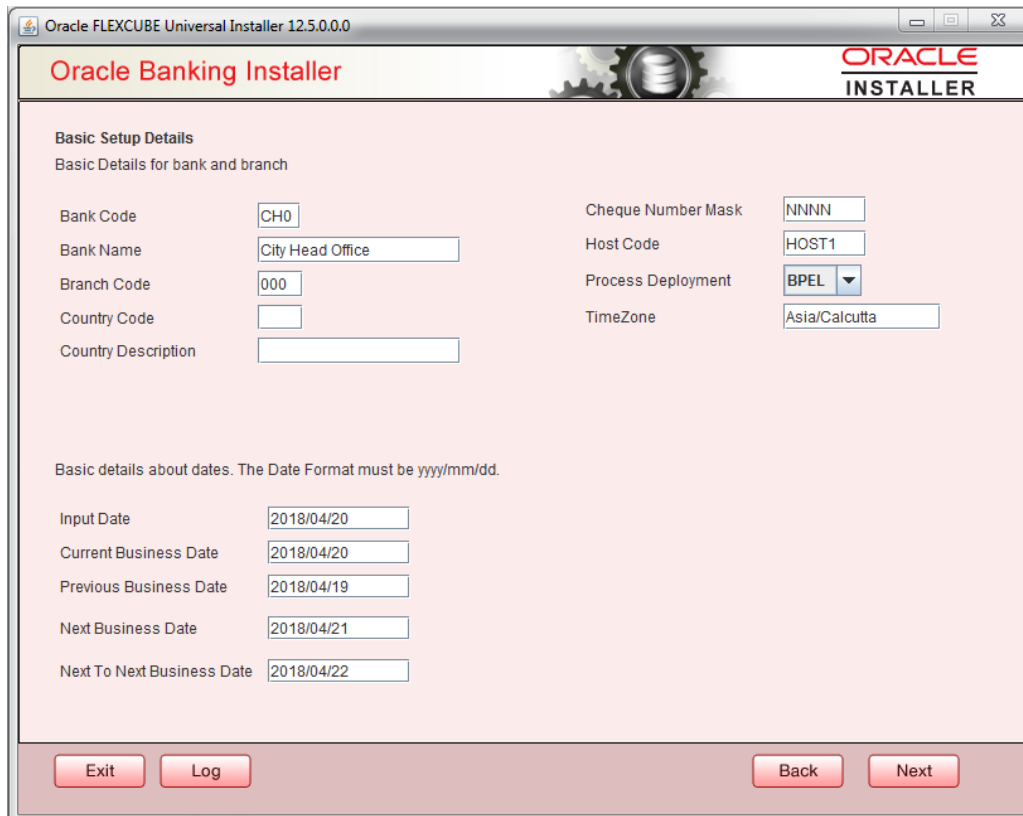
7. Click on 'Next' button .Screen displays parameters for table SMTB_MODULES_GROUP

If any change is required in the JNDI name, edit the same and click on Update.

Note: SMTB_MODULES_GROUP for FCELCM (Oracle ELCM) with the JNDI name '<ENTITY_ID JNDI name>_EL'. For example, if the ENTITY_ID JNDI name is 'jdbc/fcjdevDS', then you need to update JNDI name 'jdbc/fcjdevDS_EL'.



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



Screen displays basic setup details for bank and branch

Bank Code

Enter the bank code.

Bank Name

Enter the bank name.

Branch Code

Enter the branch code.

Country Code

Enter the Country code.

Country Description

Enter the Country Description.

Cheque Number Mask

Enter the Cheque Number Mask

Process Deployment

Choose mode of process deployment between BPEL and BPMN

Screen also displays basic setup details for dates.

Input Date

Enter the input date.

Current Business Date

Enter the current business date.

Previous Business Date

Enter the previous business date.

Next Business Date

Enter the next business date.

Next to Next Business Date

Enter the next to next business date.

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

Oracle FLEXCUBE Universal Installer 12.5.0.0.0

Oracle Banking Installer ORACLE
INSTALLER

Basic Setup Details

Currency Details.

Local Currency Code: USD

Local Currency Name: US DOLLAR

Current Fin Cycle: 2011

Current Fin Period: QT1

ISO Currency Code: 294

External Password

No	User Name	Password or LDAP User name
1	ADMINUSER1	••••••••
2	ADMINUSER2	••••••••

Exit Log Back Next

Screen displays basic setup details for currency, User can change them.

Local Currency Code

Enter Local Currency Code

Local Currency Name

Enter Local Currency Name

Current Fin Cycle

Enter Current Financial Cycle (any year from 2011 to 2050)

Current Fin Period

Enter Current Financial Period (QT1 to QT4, M01 to M12)

ISO Currency Code

Enter ISO Currency Code.

Screen also displays basic setup details for the creating a user in FLEXCUBE.

Creation of 'SYSTEM' user is mandatory for payments processing, it needs to be created as part of static data setup.

External Password

Check this box to specify the external password.

User Name

Displays the user name. Change the user name if required.

Password or LDAP User Name

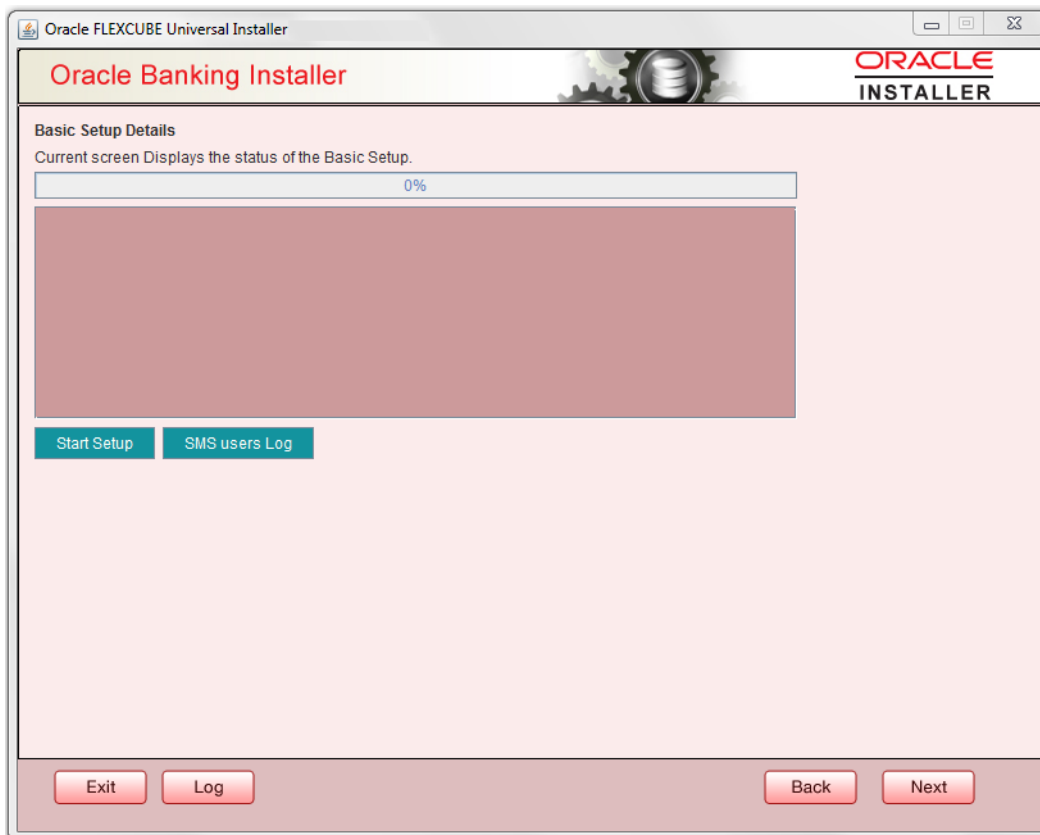
Specify the password and it is mandatory. You can use the following characters in the password:

- Alphabets in uppercase
- Alphabets in lowercase
- Numerals



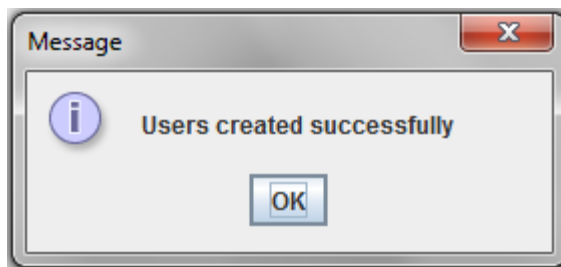
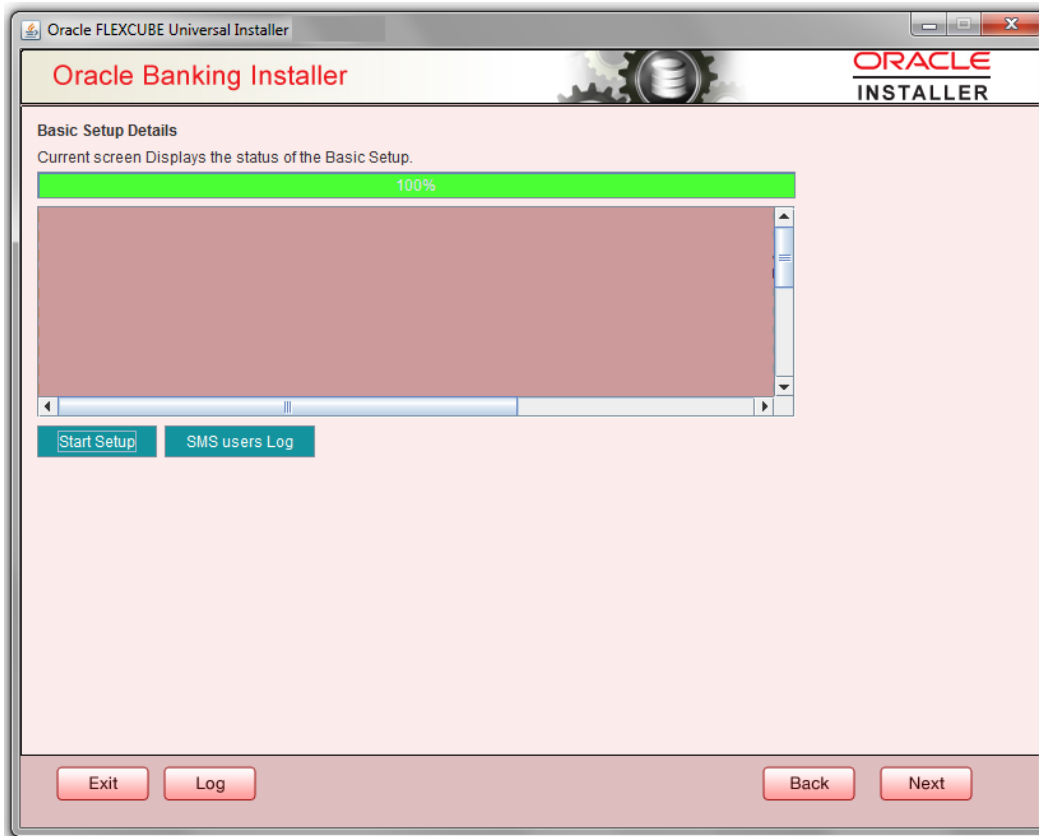
You cannot use '_' (underscore) in the password.

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



11. Click 'Start Setup' button to compile the entries. On completion the below Screen will be seen.

User created logs can be viewed by clicking SMS uses Log button.



This completes the basic setup process.

1.5.2 Approot Object Conversion – Application Root Configuration Mode

Pre-requisites:

The below steps has to be completed in a sequential order before using this utility.

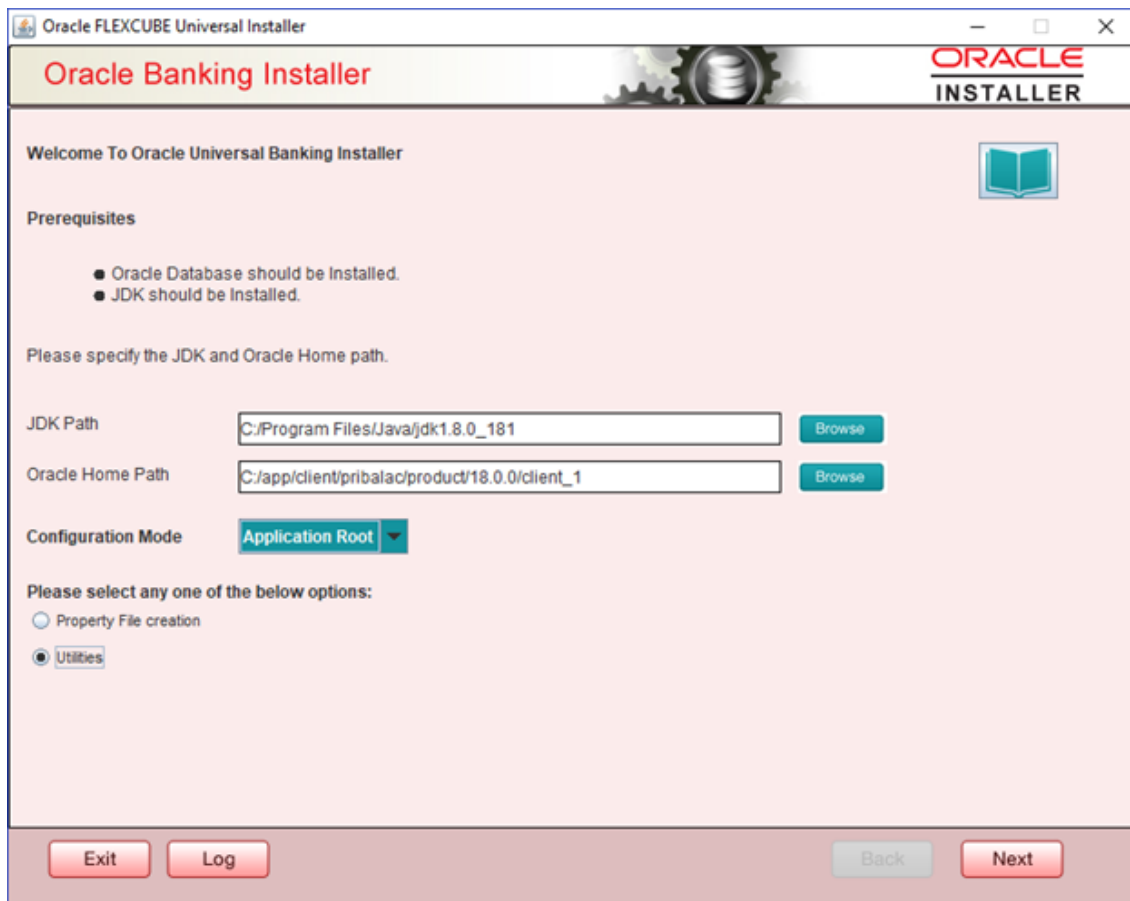
1. A Container Database (CDB) has to be created with 18c database and 'Application Template PDB' is created under this CDB. Oracle FLEXCUBE objects has to be loaded into this PDB.
2. Application root creation followed by application seed creation.
3. Application installation version 1.0 has to be done in approot with user being made explicit.

Application root setup and application installation has to be done as mentioned in document [Multi-Tenant Deployment.docx](#).

Application root – PDB Object Conversion:

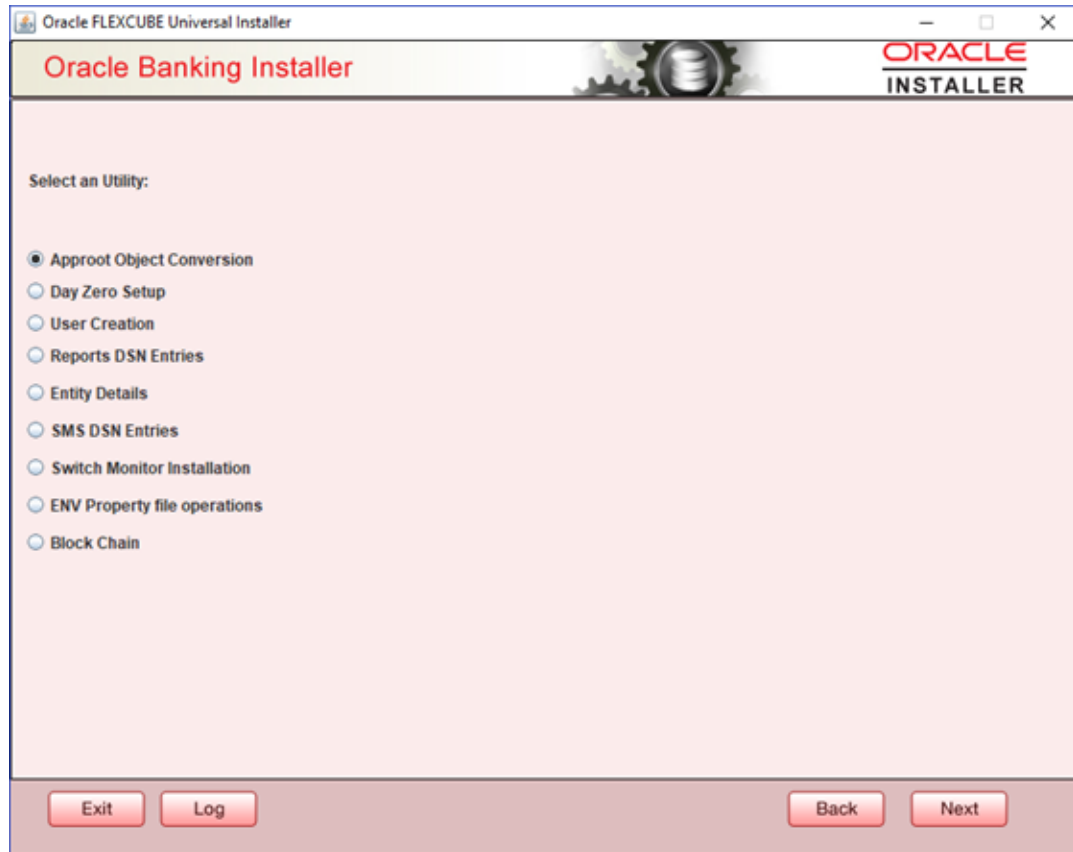
To build the application for setup using the installer, follow the steps given below.

1. Double-click 'FCUBSInstaller.bat' batch file to launch Oracle FLEXCUBE Universal Installer. The following screen is displayed. Select Utilities option, configuration mode as "Application Root" and click 'Next' button.



The screenshot shows the Oracle FLEXCUBE Universal Installer window. The title bar reads "Oracle FLEXCUBE Universal Installer". The main window has a header with "Oracle Banking Installer" on the left and the "ORACLE INSTALLER" logo on the right. Below the header, it says "Welcome To Oracle Universal Banking Installer" with a book icon. The "Prerequisites" section lists two items: "Oracle Database should be Installed." and "JDK should be Installed." Below this, it prompts the user to "Please specify the JDK and Oracle Home path." There are two input fields: "JDK Path" with the value "C:/Program Files/Java/jdk1.8.0_181" and "Oracle Home Path" with the value "C:/app/client/pribalac/product/18.0.0/client_1". Each field has a "Browse" button to its right. The "Configuration Mode" is set to "Application Root" in a dropdown menu. Below this, it says "Please select any one of the below options:" with two radio buttons: "Property File creation" (unselected) and "Utilities" (selected). At the bottom of the window, there are four buttons: "Exit", "Log", "Back", and "Next".

2. Select 'Approot object Conversion" in Utility Screen and click Next as shown below



3. In the Approot object conversion screen, enter application name and Approot Schema details.

Options of conversion include:

- **Shared Application**
- **Shared Application and User Authentication**
- **Shared Application and Shared Data – Default**
- **Shared Application and Shared Data – Custom**

Shared Application

1. In case of 'Shared Application', there will not be any common data and only application is shared.
2. Enter Application name and the Application root schema details where the conversion has to be applied and click on 'Test Connection'.
3. When Application name is not inputted, error will be displayed to input the same. User has to make sure that application name is the one mentioned in pre-requisites with installation done for version 1.0.
4. Once the Connection is successful, 'Finish' button will be enabled.

5. User has to select the option 'Shared Application' and click on the 'Finish' button to complete object conversion.
6. Execution will take few minutes and post completion, a dialog box displays 'Compilation Success' message in the front end.

Oracle FLEXCUBE Universal Installer

Oracle Banking Installer **ORACLE INSTALLER**

Object conversion for Application root

Enter Application Name

Provide Application root Schema details

Name	Value
Username	installer
Password	*****
Service Name	testdb
IP Address	10.10.10.10
Port	1521
TNS Connect Descriptor	testdb

Select Option for conversion

Shared Application

Shared Application and User Authentication

Shared Application and Shared Data - Default

Shared Application and Shared Data - Custom

Shared Application and User Authentication

- 1 In case of 'Shared Application and User authentication', only user authentication related data will be shared along with a shared application.
- 2 Enter Application name and the Application root schema details where the conversion has to be applied and click on 'Test Connection'.
- 3 When Application name is not inputted, error will be displayed to input the same. User has to make sure that application name is the one mentioned in pre-requisites with installation done for version 1.0.
- 4 Once the Connection is successful, 'Finish' button will be enabled.
- 5 User has to select the option 'Shared Application and User authentication' and click on the 'Finish' button to complete object conversion.
- 6 Execution will take few minutes and post completion, a dialog box displays 'Compilation Success' message in the front end.

Oracle FLEXCUBE Universal Installer

Oracle Banking Installer

ORACLE
INSTALLER

Object conversion for Application root

Enter Application Name

Provide Application root Schema details

Name	Value
Username	installer
Password	••••••••
Service Name	testdb
IP Address	10.10.10.10
Port	1521
TNS Connect Descriptor	testdb

Select Option for conversion

Shared Application

Shared Application and User Authentication

Shared Application and Shared Data - Default

Shared Application and Shared Data - Custom

Shared Application & Shared Data – Default

1. In case of 'Shared Application & Shared Data - Default', all the function groups listed will be installed in the application root.
2. Enter Application name and the Application root schema details where the conversion has to be applied and click on 'Test Connection'.
3. When Application name is not inputted, error will be displayed to input the same. User has to make sure that application name is the one mentioned in pre-requisites with installation done for version 1.0.
4. Once the Connection is successful, 'Finish' button will be enabled.
5. User has to select the option 'Shared Application & Shared Data - Default' and click on the 'Finish' button to complete object conversion.
6. Execution will take few minutes and post completion, a dialog box displays 'Compilation Success' message in the front end.

Oracle FLEXCUBE Universal Installer

Oracle Banking Installer **ORACLE INSTALLER**

Object conversion for Application root

Enter Application Name

Provide Application root Schema details

Name	Value
Username	installer
Password	••••••••
Service Name	testdb
IP Address	10.10.10.10
Port	1521
TNS Connect Descriptor	testdb

Select Option for conversion

Shared Application

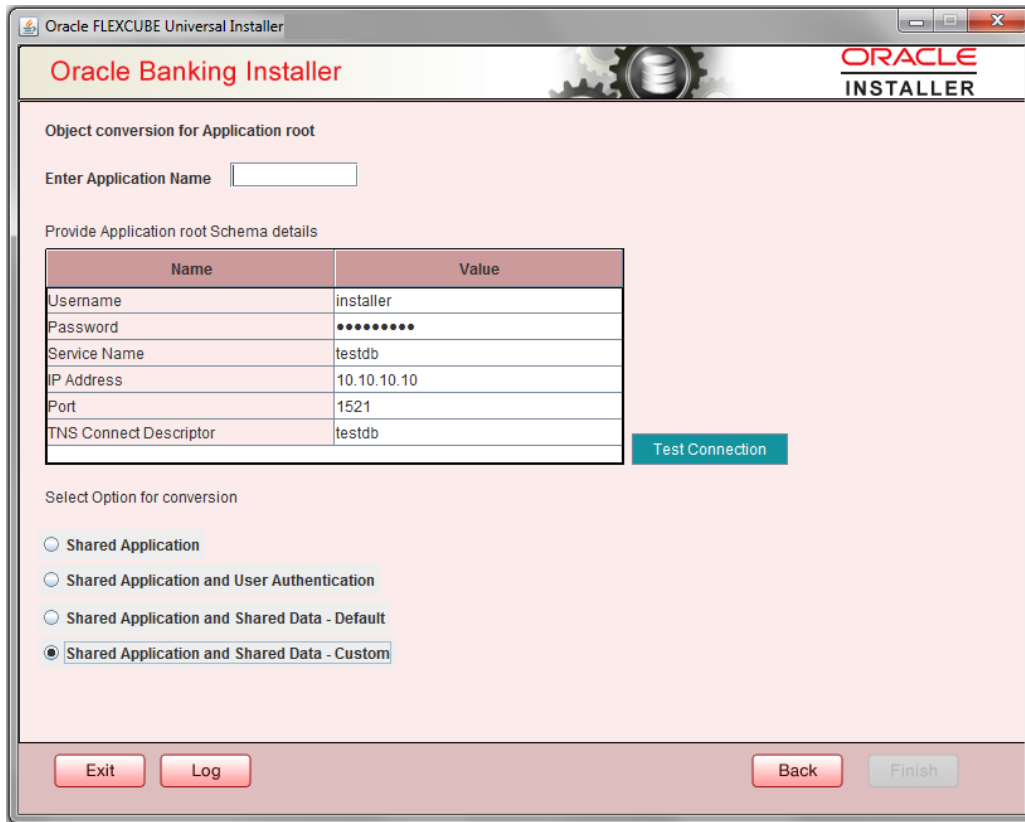
Shared Application and User Authentication

Shared Application and Shared Data - Default

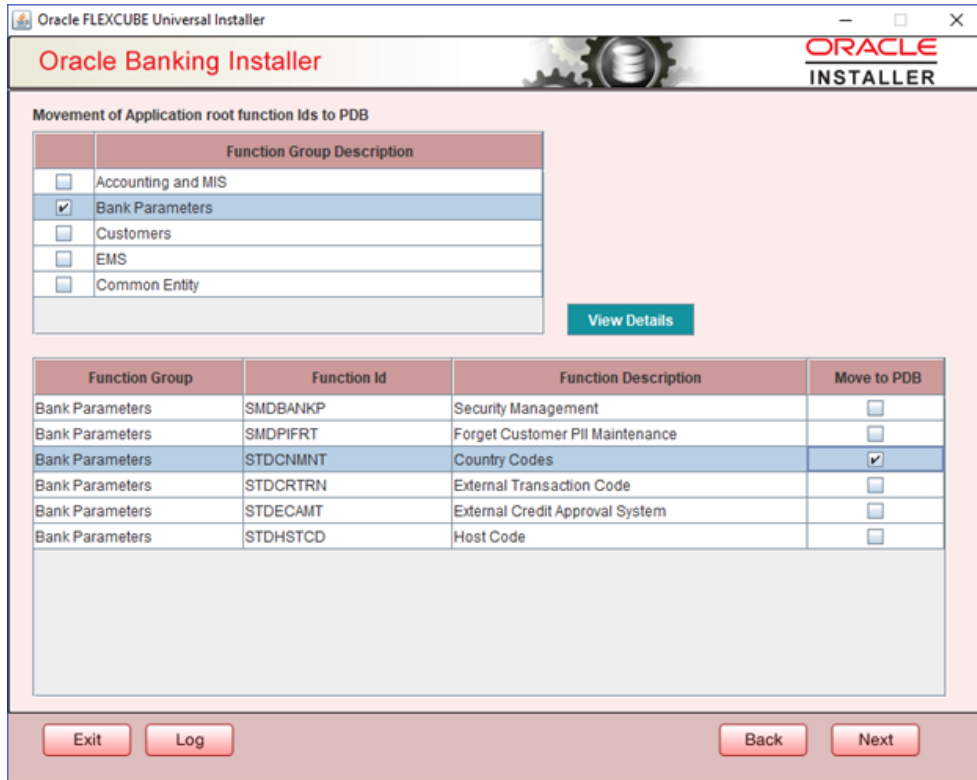
Shared Application and Shared Data - Custom

Shared Application & Shared Data - Custom

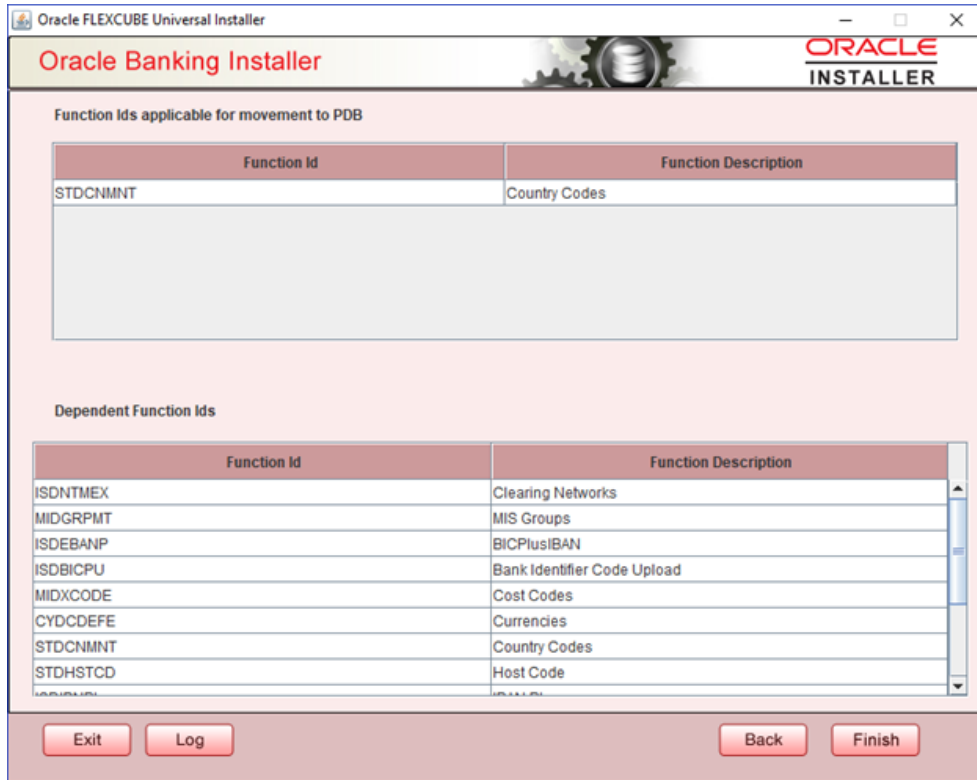
1. In case of 'Shared Application & Shared Data - Custom', all the function groups listed will be available to install in the application root. User can opt to move selected function ids to PDB.
2. Enter Application name and the Application root schema details where the conversion has to be applied and click on 'Test Connection'.
3. When Application name is not inputted, error will be displayed to input the same. User has to make sure that application name is the one mentioned in pre-requisites with installation done for version 1.0.
4. Once the Connection is successful, 'Finish' button will be enabled.
5. User has to select the option 'Shared Application & Shared Data - Default' and click on the 'Next' button to take through the steps of movement of function ids to PDB.



6. In the Next Screen, user can opt-out the entities which are not required to be the candidates of approot and those function ids will be moved to PDB.
7. There will be two multi blocks available.
 - a. First multi block will list the details of function groups which are the Approot candidates.
 - b. Second multi block will list the function ids corresponding to each of the function group in the first block.
8. Second multi block will have the check box 'Move to PDB' against each function ID.



9. User can select more than one function group and the respective function ids will also be appended to the second multi block against the function group on click of 'View Details' button.
10. Once the selection is completed, 'click on the Next button' to move to the next screen where the complete list of function ids.
11. The dependent function ids of the selected functions opted to move to PDB will be listed in the below section.



12. Object conversion can be completed by clicking on the Finish button.
13. Execution will take few minutes and post completion, a dialog box displays 'Compilation Success' message in the front end.

1.5.3 Day Zero Setup – Application Root Configuration Mode

Pre-requisites:

The below steps has to be completed in a sequential order before using this utility

- Object conversion has to be done in aproot for the existing application with version 1.1 as upgrade.
- Application seed has to be synched with the application till the latest version (1.1).
- Application PDB's has to be created from the application seed.
- User has to select the configuration mode as 'Application Root', click on Utilities and select the Day zero setup utility.

Application root – PDB Day zero setup:

The steps to load objects from the shipment media are given below:

1. Double-click 'FCUBSInstaller.bat' batch file to launch Oracle FLEXCUBE Universal Installer. The following screen is displayed. Select Utilities option and click 'Next' button.

Oracle FLEXCUBE Universal Installer 12.5.0.0.0

Oracle Banking Installer ORACLE INSTALLER

Welcome To Oracle Universal Banking Installer

Prerequisites

- Oracle Database should be installed.
- JDK should be installed.

Please specify the JDK and Oracle Home path.

JDK Path: C:/Program Files/Java/jdk1.8.0_181 [Browse]

Oracle Home Path: C:/app/client/pribalac/product/18.0.0/client_1 [Browse]

Configuration Mode: Application Root

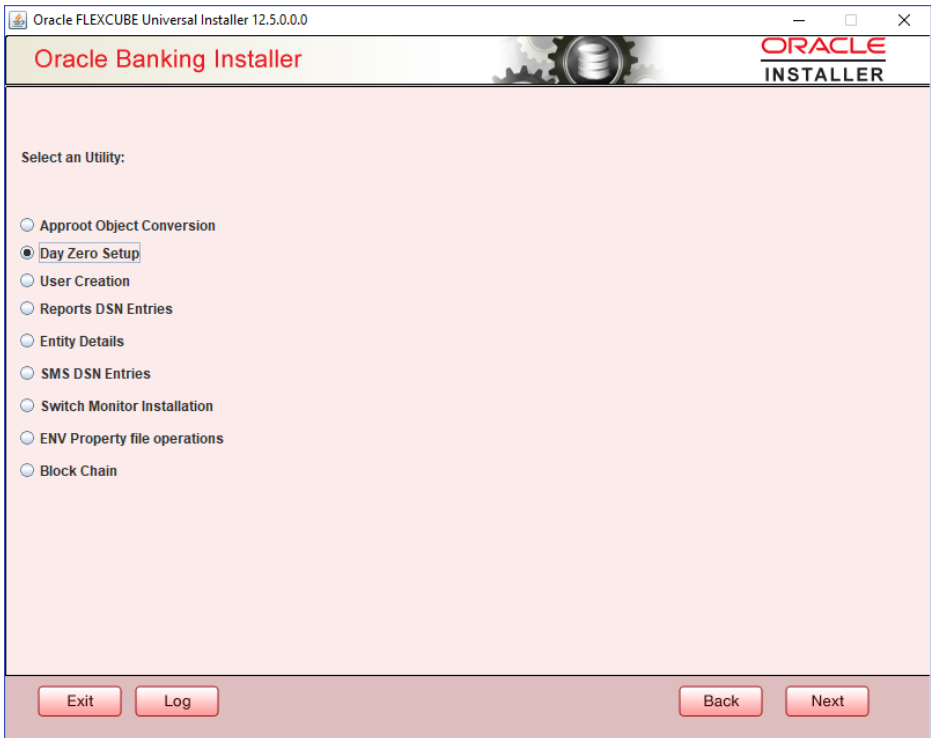
Please select any one of the below options:

Property File creation

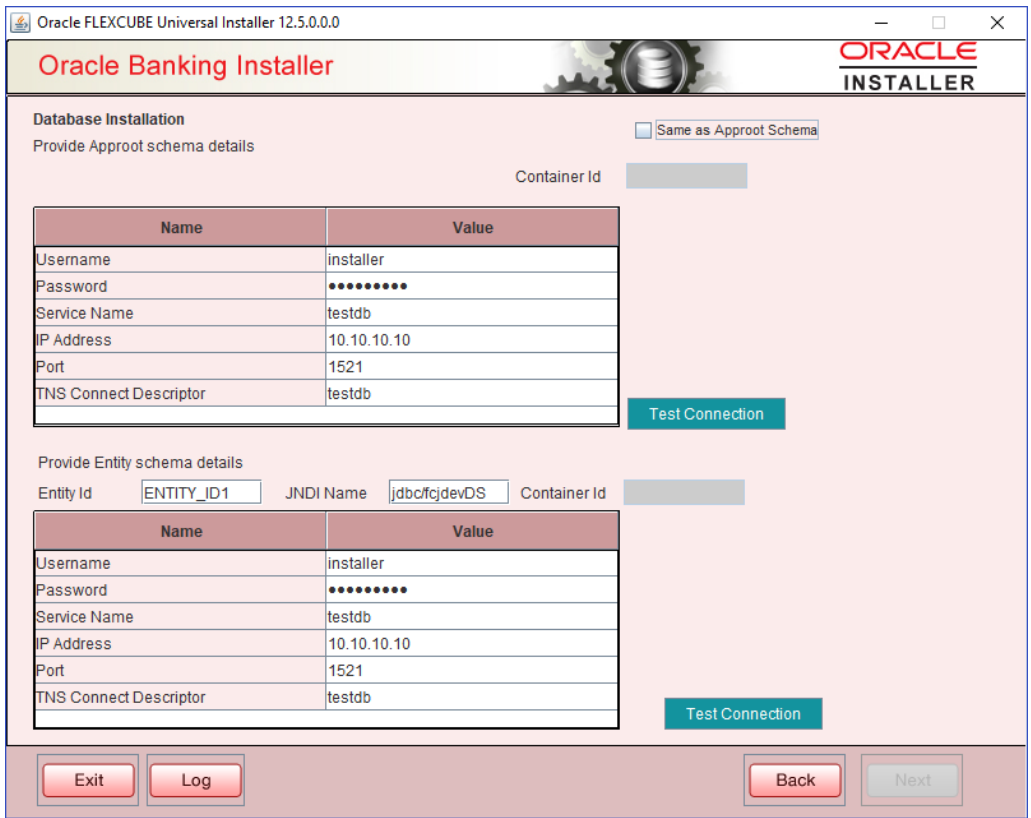
Utilities

Exit Log Back Next

2. Select configuration mode as "Application Root"
3. Select 'Day Zero Setup' in Utility Screen and click Next as shown below



4. Click 'Next' and in the below screen



5. User has to specify the Approot and PDB Schema details for day zero setup and do the day zero setup manually for n number of PDBs created in the application root.

While capturing the schema details, Approot and PDB schema details for day zero set up has to be provided. Depends on the sharing selected for the tables insertion will happen in schemas.

Upon 'Test Connection', Container ID will be defaulted for the respective schema inputted and these details will be used for updating the required tables.

Now, Steps from 6 to 11 have to be followed as per the section (1.5.1 Day Zero Setup – Normal Configuration Mode) to complete the day zero setup.

In Step 11:

Oracle FLEXCUBE Universal Installer 12.5.0.0.0

Oracle Banking Installer

ORACLE
INSTALLER

Basic Setup Details

Currency Details.

Local Currency Code: USD

Local Currency Name: US DOLLAR

Current Fin Cycle: 2011

Current Fin Period: QT1

ISO Currency Code: 294

External Password

No	User Name	Password or LDAP User name
1	ADMINUSER1	••••••••
2	ADMINUSER2	••••••••

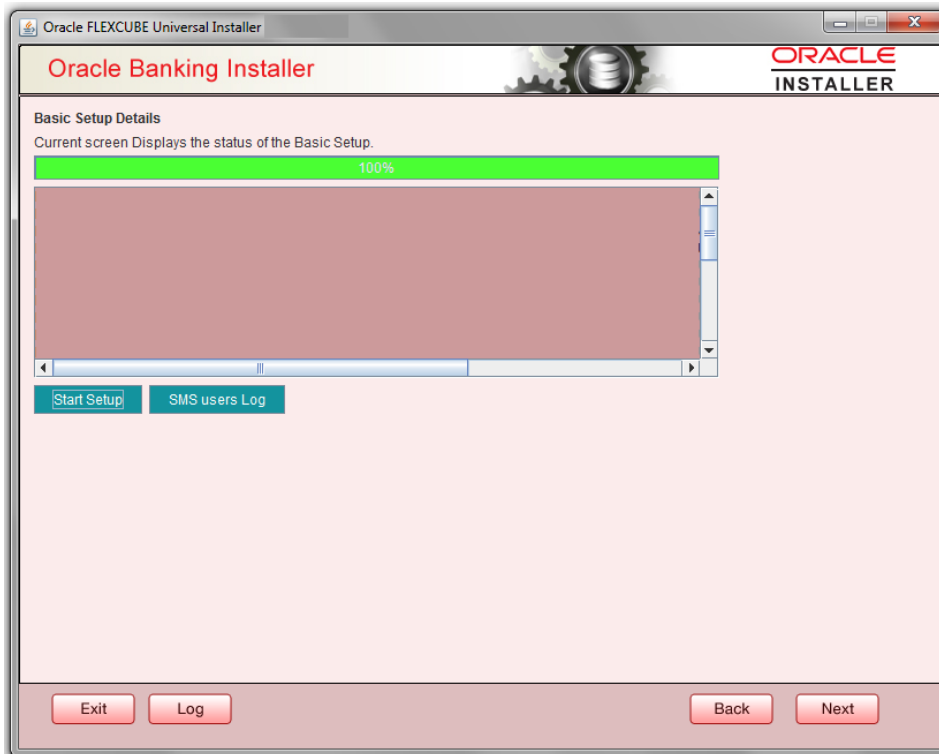
Exit Log Back Next

When Application root is configuration mode, while creating users from day zero setup for the different PDBs, new users can also be created for the respective entities.

If the same user details are inputted for different PDB, system displays the below override message for duplicate user insertion. Respective entity details are updated for these duplicate users.



Step 12:



This completes the basic setup process.

ORACLE
Installer Database Setup
[December] [2018]
Version 14.2.0.0.0

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