

# Oracle® Banking Corporate Lending Installer Prerequisite



Release 14.7.1.0.0

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Banking Corporate Lending Installer Prerequisite, Release 14.7.1.0.0

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# Preface

This guide helps the user with the installation of Oracle Banking Application.

The images used in the documentation are of illustration purpose and need to be used only for reference.

This preface has the following topics:

- [Introduction](#)
- [Audience](#)
- [Acronyms and Abbreviations](#)
- [Related Resources](#)

## Introduction

This manual is designed to help acquaint you with the installation of Oracle Banking Corporate Lending.

## Audience

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

**Table 1 Audience**

Role	Function
Implementation team	Implementation of Oracle Banking Corporate Lending Solution
Presales team	Install Oracle Banking Corporate Lending for demo purpose
Bank personnel	Who installs Oracle Banking Corporate Lending

The user of this manual is expected to have basic understanding of Application server like Oracle Weblogic, IBM Websphere and Oracle Database.

## Acronyms and Abbreviations

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

**Table 2 Acronyms and Abbreviations**

Abbreviation	Description
FCUBS	Oracle FLEXCUBE Universal banking Solutions

**Table 2 (Cont.) Acronyms and Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
ELCM	Oracle Banking Enterprise Limits and Collateral Management
EAR	Enterprise Archive file
LDAP	Lightweight Directory Access Protocol
OBCL	Oracle Banking Corporate Lending
ROFC	Rest Of FLEXCUBE

## Related Resources

For more information, see these Oracle Banking Corporate Lending resources:

- *Release Notes*
- *Installation documents*

# 1

## Installer Prerequisite Setup

This topic explains the systematic instructions on how the Installer is designed.

Install the 12C Client and JAVA latest version.

If the target database is Autonomous Database, TNS\_ADMIN must be configured. Refer to the topic Configure TNS Admin for detailed steps to configure TNS\_ADMIN.

1. During the setup of the environment, two installer modes are to be used:
    - a. GUI Installer
    - b. Silent Installer
  2. The **GUI Installer** is located under `\INSTALLER\SOFT\GUI`. The GUI installer is required for the below activities
    - a. Property File Creation
    - b. Basic Setup
    - c. Environment Property File Configuration
  3. The **Silent installer** is located under `\INSTALLER\SOFT`. The Silent installer is required for below activities,
    - a. Database Setup
    - b. EAR Build
- [Source Structure](#)  
This topic explains the different ways of installation and the source structure.
  - [Environment Setup Steps](#)  
This topic explains the systematic instructions to setup the environment.
  - [Environment Property File Configuration](#)  
This topic explains the Environment Property File Configuration.

### 1.1 Source Structure

This topic explains the different ways of installation and the source structure.

The installation can be done in different ways, and Source Structure should be maintained as below:

**Table 1-1 Source Structure**

Source Structure	Description
ROFC without OBCL	The ROFC_OSDC.zip can be used without any modifications.

**Table 1-1 (Cont.) Source Structure**

Source Structure	Description
<b>ROFC with OBCL</b>	<p>The OBCL folder from <b>OBCL_OSDC.zip</b> should be copied parallel to the INFRA folder of <b>ROFC_OSDC.zip</b>. In addition, copy the following class folders from \INFRA of <b>OBCL_OSDC.zip</b> file to ROFC_OSDC extracted sources \INFRA folder.</p> <p>In addition, copy the following class folders from \ADAPTERS\FCEXTERNAL of <b>OBCL_OSDC.zip</b> file to ROFC_OSDC extracted sources \ADAPTERS\FCEXTERNAL folder.</p> <ol style="list-style-type: none"> <li>1. PIApps</li> <li>2. PICommon</li> <li>3. PIDto</li> <li>4. PIEJB</li> <li>5. PIEntities</li> <li>6. PIKernel</li> <li>7. PIKernelDao</li> <li>8. PIUtility</li> <li>9. COCommon</li> <li>10. CODto</li> <li>11. COEJB</li> <li>12. COEntities</li> <li>13. COKernel</li> <li>14. COKernelDao</li> <li>15. COUtility</li> </ol>
<b>ROFC with ELCM</b>	<p>The ELCM and POJO folders from <b>ELCM_OSDC.zip</b> should be copied parallel to the INFRA folder of <b>ROFC_OSDC.zip</b>. In addition, copy the following class folders from \INFRA of <b>ELCM_OSDC.zip</b> file to ROFC_OSDC extracted sources \INFRA folder.</p> <ol style="list-style-type: none"> <li>1. ELCMCommon</li> <li>2. ELCMDto</li> <li>3. ELCMEJB</li> <li>4. ELCMEntities</li> <li>5. ELCMGateway</li> <li>6. ELCMKernel</li> <li>7. ELCMKernelJpa</li> <li>8. ELCMUtility</li> <li>9. ELCMWeb</li> </ol>
<b>ROFC without ELCM</b>	<p>The <b>ROFC_OSDC.zip</b> can be used without any modifications.</p>

Table 1-1 (Cont.) Source Structure

Source Structure	Description
<b>OBCL without ELCM</b>	The <b>OBCL_OSDC.zip</b> can be used without any modifications.
<b>OBCL with ELCM</b>	The ELCM and POJO folders from <b>ELCM_OSDC.zip</b> should be copied parallel to the INFRA folder of <b>OBCL_OSDC.zip</b> . In addition, copy the following class folders from \INFRA of <b>ELCM_OSDC.zip</b> file to ROFC_OSDC extracted sources \INFRA folder. <ol style="list-style-type: none"> <li>1. ELCMCommon</li> <li>2. ELCMDto</li> <li>3. ELCMEJB</li> <li>4. ELCMEntities</li> <li>5. ELCMGateway</li> <li>6. ELCMKernel</li> <li>7. ELCMKernelJpa</li> <li>8. ELCMUtility</li> <li>9. ELCMWeb</li> </ol>
<b>ELCM</b>	The <b>ELCM_OSDC.zip</b> can be used without any modifications.
<b>PM</b>	The <b>PM_OSDC.zip</b> can be used without any modifications.
<b>CO-DEPLOY</b>	The OBCL folder from <b>OBCL_OSDC.zip</b> and PM folder from <b>PM_OSDC.zip</b> should be copied parallel to the INFRA folder of <b>ROFC_OSDC.zip</b> .

## 1.2 Environment Setup Steps

This topic explains the systematic instructions to setup the environment.

To setup the environment, refer to the below Environment setup table.

Table 1-2 Environment Setup

Environment Setup	Description
<b>Property File Creation</b>	Two property files are generated: <ul style="list-style-type: none"> <li>• "fcubs.properties" required for application (EAR).</li> <li>• "env.properties" common property required for environment setup.</li> </ul> For more information, refer to <i>Property File Creation Guide</i>
<b>Populating environment property file</b>	The Database properties are to be populated from the "env.properties" generated during property file creation. The rest of the properties are to be manually updated.
<b>NLS LANG settings</b>	Before moving to the DB setup, the NLS_LANG parameter has to be added to the local system environment variables.



**Table 1-2 (Cont.) Environment Setup**

Environment Setup	Description
<b>For Windows</b>	<ol style="list-style-type: none"> <li data-bbox="597 380 1455 590">1. This can be done by browsing to My Computer\Properties\Advanced system settings\Environment Variables or Control Panel\All Control Panel Items\System\Advanced system settings\Environment Variables. Here, the NLS_LANG parameter can be added with variable name as NLS_LANG and value as AMERICAN_AMERICA.UTF8. Refer to System Property screen.</li> <li data-bbox="597 600 1455 726">2. After this, go to Run(shortcut: Windows+R), enter regedit, and click OK. It will open Registry Editor. Here, under Oracle DB KEY, the NLS_LANG parameter can be added with variable name as NLS_LANG and value as AMERICAN_AMERICA.UTF8 as shown in the Registry Editor screen.</li> <li data-bbox="597 737 1455 804">3. After this, please do a System Restart(<b>Shutdown-&gt;Restart</b>) to reflect the changes.</li> </ol>
<b>For Linux</b>	<p data-bbox="597 825 1455 909">This can be done by opening a command bash shell and by setting environment variables in the command prompt <code>export NLS_LANG=AMERICAN_AMERICA.UTF8</code>.</p> <p data-bbox="597 919 1455 972">By running the above command in the installer, the location will set the environment variable in the linux shell/terminal.</p>
<b>Database Setup</b>	<p data-bbox="597 982 1455 1035">The Database setup involves DDL Load, Object Compilation and Static Data Compilation.</p> <p data-bbox="597 1045 1455 1077">For more information, refer to <i>DB Setup Guide</i></p>
<b>Basic Setup</b>	<p data-bbox="597 1087 1455 1140">Post INC Load, basic setup has to be done. The Basic setup is done using the GUI Installer.</p> <p data-bbox="597 1150 1455 1182">For more information, refer to <i>DB Setup Guide</i></p>
<b>Application EAR build</b>	<p data-bbox="597 1192 1455 1247">The FCUBS Application and Gateway EAR build is done using the Silent Installer. For more information, refer to <i>EAR Building Guide</i></p>

Figure 1-1 System Properties

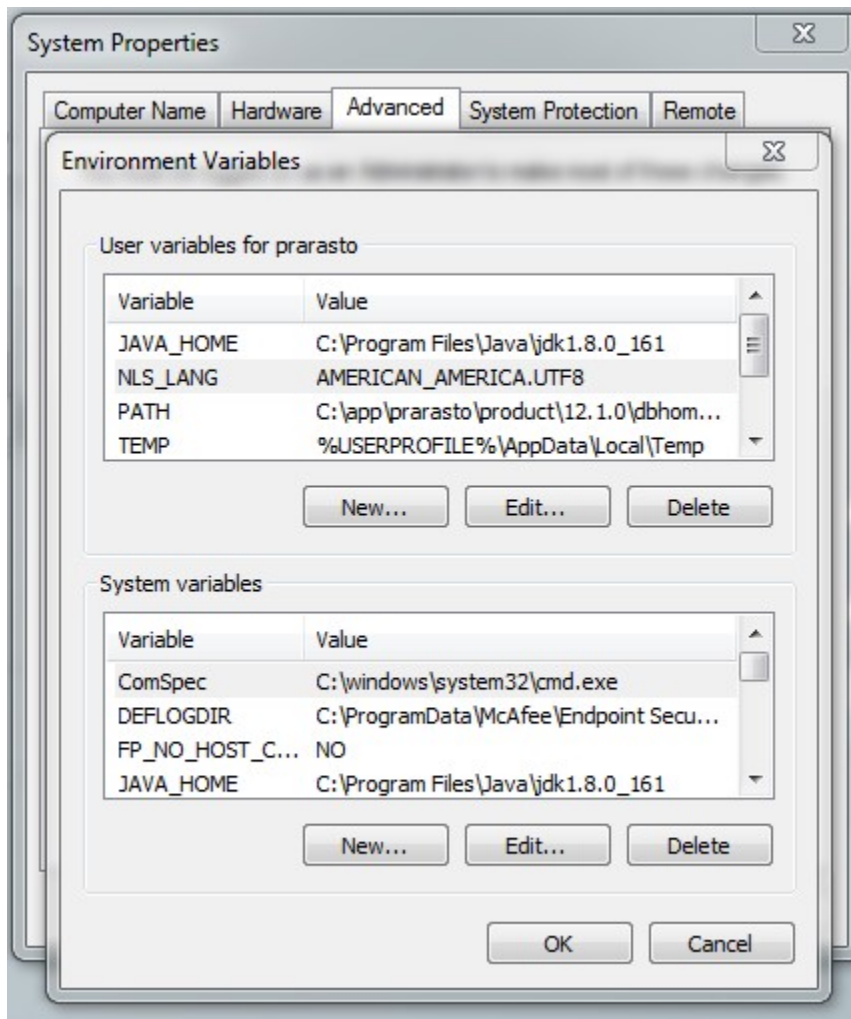
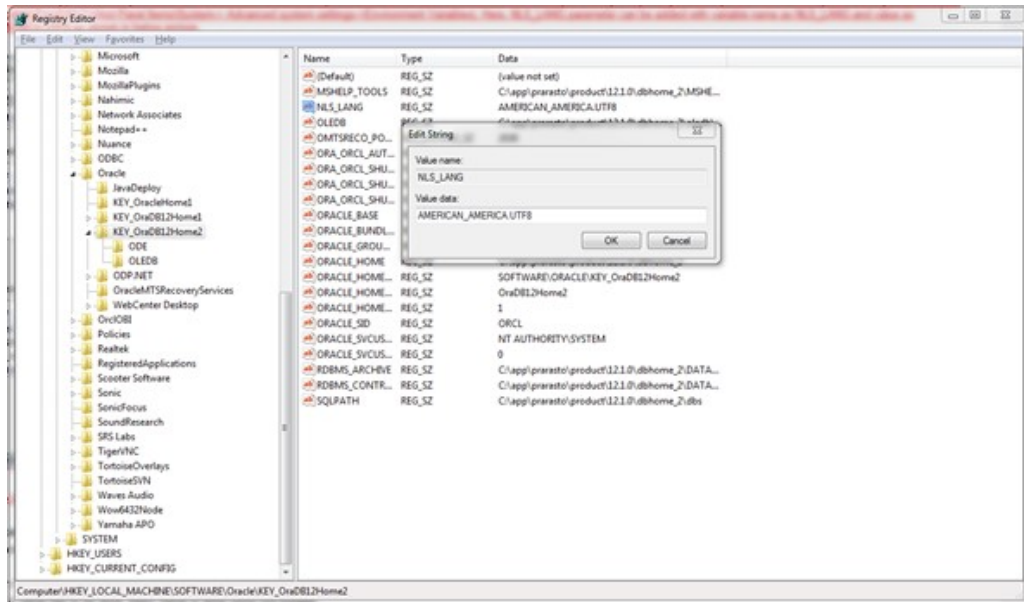


Figure 1-2 Registry Editor



## 1.3 Environment Property File Configuration

This topic explains the Environment Property File Configuration.

Figure 1-3 Environment Property File

```

#Mon May 07 14:01:30 IST 2018
GW_PROPERTIES_PATH=D:/14.1/INSTALLER/Console_EXEC_24apr/Console_EXEC/INSTALLER/SOFT/logs/GW_WS_Prop.properties
HOST_SMS=2/8qbcFjgT1Ki1SYgRiG9anIz13s66mDaAL9CF3Rt8I=
SYMMETRIC_KEY=oraclefinancialsolutions
ENTITY_ID2=ENTITY_ID2
ENTITY_ID1=ENTITY_ID1
PORT_SMS=1521
RECENT_BROWSE_LOCATION=C:/Users/piyushsh/Desktop/multi/fcubs.properties
CONTEXT_NAME=FCUNeoWeb
PASSWORD_SMS=AkAj+fQIxVwKdpHUeRMVcQ==
SOURCE_PATH=D:/14.1/INSTALLER/Console_EXEC_24apr/Console_EXEC
SCHEMA_NAME_ENTITY_ID2=VIZoPhrT9eG7FbuqqN/EYQ==
SCHEMA_NAME_ENTITY_ID1=Gz2Vv1vp7T4XbStsj1DRKwv==
EXTERNAL_PROPERTY_PATH_REQUIRED=N
WEBLOGIC_HOME=C:/Oracle/Middleware/Oracle_Home/wlserver
SCHEMA_NAME_SMS=AkAj+fQIxVwKdpHUeRMVcQ==
PASSWORD_ENTITY_ID2=VIZoPhrT9eG7FbuqqN/EYQ==
COMPILE_IN_ALL_ENTITIES=Y
PASSWORD_ENTITY_ID1=Gz2Vv1vp7T4XbStsj1DRKwv==
APPLICATION_TYPE=FCUBS
EXTERNAL_PROPERTY_PATH=
DECENTRALIZED=N
EAR_NAME=FCUBSMULTI
EXTERNAL_JSUIXML_PATH=
EAR_DESTINATION_PATH=D:/14.1/INSTALLER/multi
ENTITY_NOS=2
DECENTRALIZED_FCUBS_PROPERTIES_PATH=
CONNECTING_STRING_ENTITY_ID2=FC141INTESTPDB
CONNECTING_STRING_ENTITY_ID1=FC141INTESTPDB
HOST_ENTITY_ID2=2/8qbcFjgT1Ki1SYgRiG9anIz13s66mDaAL9CF3Rt8I=
SERVICE_NAME_ENTITY_ID2=YtfaW53ngv1Tcgyh3fgZPA==
HOST_ENTITY_ID1=2/8qbcFjgT1Ki1SYgRiG9anIz13s66mDaAL9CF3Rt8I=
ConfigPath=D:/14.1/INSTALLER/Console_EXEC_24apr/Console_EXEC/INSTALLER/SOFT/config/Application
SERVICE_NAME_ENTITY_ID1=YtfaW53ngv1Tcgyh3fgZPA==
PATCHSET_INSTALLATION=N
FCUBS_PROPERTIES_PATH=D:/14.1/INSTALLER/multi/fcubs.properties
ORACLE_HOME=C:/app/client/piyushsh/product/12.2.0/client_1
APPSERVER_HOME=C:/Oracle/Middleware/Oracle_Home/wlserver
CONNECTING_STRING_SMS=FC141INTESTPDB
JAVA_HOME=C:/ProgFam Files/Java/jdk1.8.0_151
PORT_ENTITY_ID2=1521
PORT_ENTITY_ID1=1521
SERVICE_NAME_SMS=YtfaW53ngv1Tcgyh3fgZPA==
EXTERNAL_JSUIXML_REQUIRED=N

```

 **Note:**

A single property file will be used for both DB Compilation and EAR build. Hence all the properties will be located in a single property file. Some properties may not be applicable during a certain setup, and those should not be modified (should be left with default values).

Refer the table, to view the properties available in the Environment Property File.

**Table 1-3 Environment Property File**

Properties	Description
<b>Config Path</b>	Absolute path to the folder containing the config files are to be provided. This is located under \INSTALLER\SOFT\config\Application
<b>Java_Home</b>	Provide the home folder path of JDK 1.8.
<b>Oracle_Home</b>	Provide the home folder path of Oracle Client or Database.
<b>Varedited</b>	This property should not be changed. This is an internal property required by the installer to identify if any changes are required in env.properties.
<b>Source and Destination Path</b>	Specify the destination directory. Here the destination path should be the same as the source file path.
<b>FCUBS_PROPERTIES_PATH</b>	Path where the fcubs property file is located .
<b>GW_PROPERTIES_PATH</b>	Provide the Gateways Properties Path.
<b>APPLICATION_TYPE</b>	Application Type is maintained as per the Application Name selected in the GUI Installer.
<b>EXTERNAL_PROPERTY_PATH</b>	If this is selected during installation, the corresponding path will be displayed here, and the value of the parameter EXTERNAL PROPERTY FILE REQUIRED will be 'Y.'
<b>EXTERNAL_JSUIXML_PATH</b>	If this is selected during installation, the corresponding path will be displayed here, and the value of the parameter EXTERNAL JSUIXML REQUIRED will be 'Y'.
<b>EAR_NAME</b>	Specify a name for the Application to be created.
<b>EAR_DESTINATION_PATH</b>	This is the local path where the built EAR will be saved. This gets updated automatically as per the path provided during the installation process.
<b>CONTEXT_NAME</b>	Specify a name for the Application Context.
<b>FCHome</b>	Provide the FCHome Path. This will be the source path for DB setup/EAR build.
<b>USER_NAME</b>	Give the Schema Name.
<b>PASSWORD</b>	Here Password should be encrypted. As Schema details provided by the GUI Installer, the env.properties file generates with the encrypted Password.
<b>Schema</b>	Give the Instance Name.

 **Note:**

The path is maintained with '\\\' as it is maintained only for WINDOWS. \' slash will consider as an escape character, so '\\\' slash is given in windows.

On the launch of GUI Installer for creating the property file, the env properties file gets generated, which is present in `\INSTALLER\SOFT\GUI\logs` path will be copied to `\INSTALLER\SOFT\logs` path. This method is followed for EAR creation, and Back-end build as it is done by the Silent Installer.

If OBCL needs to install as Co-deployed along with ROFC, then the OBCL folder from **OBCL\_OSDC.zip** should be placed parallel to the ROFC folder in the **ROFC\_OSDC.zip**.

If ELCM needs to install as Co-deployed along with ROFC, then the ELCM folder from **ELCM\_OSDC.zip** should be placed parallel to the ROFC folder in the **ROFC\_OSDC.zip**. INFRA inside ELCM should be moved and merged with CORE INFRA.

If PAYMENTS needs to install as Co-deployed along with ROFC, then the PAYMENTS folder from the PAYMENTS OSDC zip should be placed parallel to the ROFC folder in the **ROFC\_OSDC.zip**.

INFRA inside PAYMENTS should be moved and merged with CORE INFRA.

## 2.1 Configure TNS\_ADMIN

This topic explains the systematic instructions to configure TNS\_ADMIN.

Oracle Database/Instant Client has to be installed and presented in the Windows or Linux Machine where this setup is being done.

1. Create a new folder called TNS\_ADMIN in Oracle Database/Instant Client Home path.  
File Path screen displays.
2. Extract the Autonomous Database wallet inside the TNS\_ADMIN folder.  
Extracted files screen is displayed.
3. Edit the **sqlnet.ora** file and update the DIRECTORY path in the sqlnet.ora with the TNS\_ADMIN folder path. Make sure to use \\ as the folder/directory separator in the path value.
4. Go to the **Edit the System Environment Variable** option in a machine and press New in the System Variables.
5. Enter the value for the Variable name as **TNS\_ADMIN** and Variable value as **TNS\_ADMIN** path and press **OK**.