Installer Prerequisite Document
Oracle FLEXCUBE Universal Banking
Release 14.8.3.0.0

Part No. G61377-01

October 2026



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1. Installer Prerequisite Setup

The Overview of this document is to share you the knowledge on how Installer is designed.

Note: Install 12C Client, Maintain JAVA Latest Version.

TNS_ADMIN Configuration:
If the target database is Autonomous Database, TNS_ADMIN must be configured. Refer to the section 'Steps to configure TNS_ADMIN' for detailed steps to configure TNS_ADMIN.

Two installer modes have to be used during setup of environment:

1. **GUI Installer –**

   Located under \INSTALLER\SOFT\GUI

   GUI Installer will be required for below activities:

   - Property File Creation
   - Basic Setup
   - Environment Property file configuration

2. **Silent Installer –**

   Located under \INSTALLER\SOFT

   Silent Installer will be required for below activities:

   - Database Setup
   - EAR Build

Source Structure:

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

1. ROFC without OBCL:

   The ROFC_OSDC.zip can be used without any modifications.

2. ROFC with OBCL:

   The OBCL folder from OBCL_OSDC.zip should be copied parallel to INFRA folder of ROFC_OSDC.zip.

In addition, copy the following class folders from \INFRA of OBCL OSDC.zip file to ROFC_OSDC extracted sources \INFRA folder

In addition, copy the following class folders from \ADAPTERS\FCExternal of OBCL OSDC.zip file to ROFC_OSDC extracted sources \ADAPTERS\FCExternal folder

- PIApps
- PICommon

- PIDto
- PIEJB
- PIEntities
- PIKernel
- PIKernelDao
- PIUtility
- COCommon
- CODto
- COEJB
- COEntities
- COKernel
- COKernelDao
- COUtility

3. ROFC with ELCM:

   ELCM and POJO folders from ELCM_OSDC.zip should be copied parallel to INFRA folder of ROFC_OSDC.zip

   In addition, copy the following class folders from \INFRA of ELCM OSDC.zip file to ROFC_OSDC extracted sources \INFRA folder

   - ELCMCommon
   - ELCMDto
   - ELCMEJB
   - ELCMEntities
   - ELCMGateway
   - ELCMKernel
   - ELCMKernelJpa
   - ELCMUtility
   - ELCMWeb

4. ROFC without ELCM:

   The ROFC_OSDC.zip can be used without any modifications.

5. OBCL without ELCM:

   The OBCL_OSDC.zip can be used without any modifications.

6. OBCL with ELCM:

ELCM and POJO folders from ELCM_OSDC.zip should be copied parallel to INFRA folder of OBCL_OSDC.zip

In addition, copy the following class folders from \INFRA of ELCM OSDC.zip file to ROFC_OSDC extracted sources \INFRA folder

- ELCMCommon
- ELCMDto
- ELCMEJB
- ELCMEntities
- ELCMGateway
- ELCMKernel
- ELCMKernelJpa
- ELCMUtility
- ELCMWeb

5. ELCM: The ELCM_OSDC.zip can be used without any modifications.

6. PM: The PM_OSDC.zip can be used without any modifications.

7. CO-DEPLOY: The OBCL folder from OBCL_OSDC.zip and PM folder from PM_OSDC.zip should be copied parallel to INFRA folder of ROFC_OSDC.zip

Environment Setup Steps:

Below is the sequence of steps to be followed during Environment Setup:

1. **Property File Creation:** (**Refer: FCUBS_Property_File_Creation.docx**)

   Two property files will get generated

   - "fcubs.properties" required for application (EAR).
   - "env.properties" common property required for environment setup.

2. **Populating environment property file: (Refer next section)**

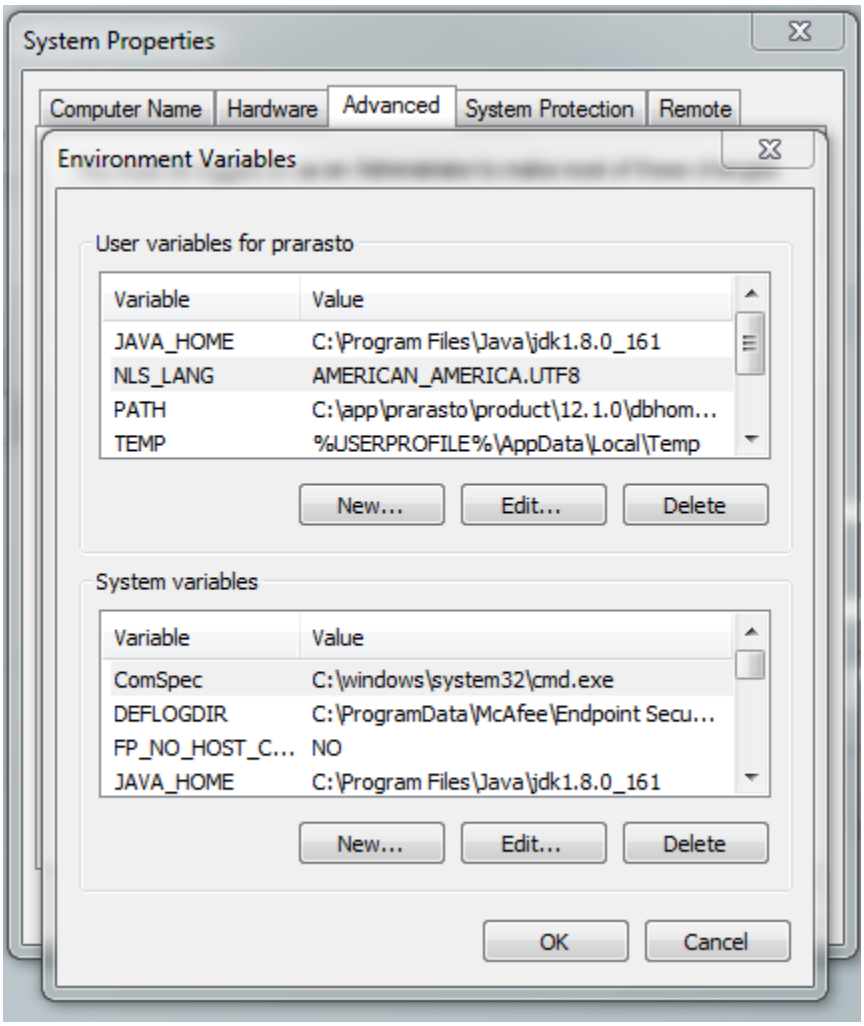
   Database properties are to be populated from the "env.properties" generated during property file creation. Rest of the properties are to be manually updated.

3. **NLS LANG settings:**

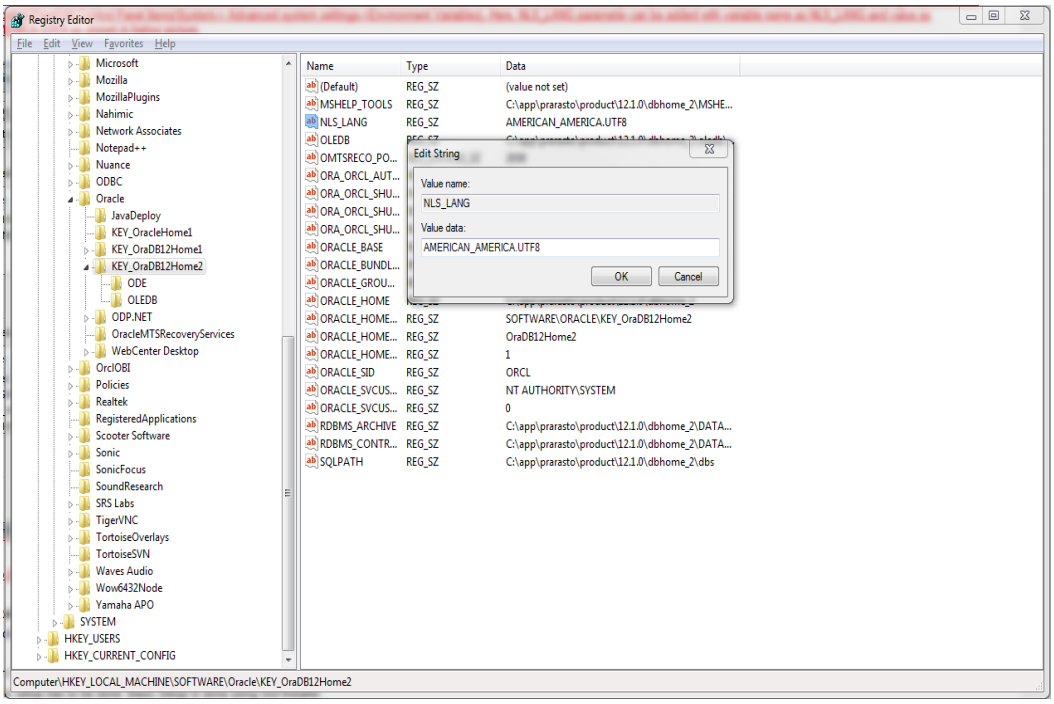
   Before moving to DB setup, NLS_LANG parameter must be added in the local system environment variables.

   For Windows:

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, NLS_LANG parameter can be added with variable name as NLS_LANG and value as AMERICAN_AMERICA.UTF8 as shown in below picture.



After this, go to Run(shortcut:Windows+R), enter regedit, and click OK. It will open Registry Editor. Here, under Oracle DB KEY, NLS_LANG parameter can be added with variable name as NLS_LANG and value as AMERICAN_AMERICA.UTF8 as shown in below picture.



After this, please do a System Restart (Shutdown->Restart) to reflect the changes.

For Linux:

This can be done by opening a command bash shell and by setting environment variables in the command prompt,

export NLS_LANG= AMERICAN_AMERICA.UTF8

Running the above command in the installer location will set the environment variable in linux shell/terminal.

4. **Database Setup: (Refer: FCUBS_DB_Setup.docx)**

   Database setup involves DDL Load, Object Compilation and Static Data Compilation.

5. **Basic Setup:** (**Refer: FCUBS_DB_Setup.docx**)

   Post INC Load, basic setup must be done. Basic Setup is done using GUI Installer.

6. **Application EAR build:** (**Refer**: **FCUBS_EAR_Building**)

   FCUBS Application and Gateway EAR build can be done using the silent installer

Environment Property file configuration:

```
#Mon May 07 14:01:30 IST 2018
GW_PROPERTIES_PATH=D:/14.1/INSTALLER/Console_EXEC_24apr/Console_EXEC/INSTALLER/SOFT/
HOST_SMS=2/8gbcFjgT1KiiSYgRiG9anIzl3s66mDaAL9CF3Rt8I=
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=FCJNeoWeb
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=Gz2Vvivp7T4XbStsj1DKww==
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=Gz2Vvivp7T4XbStsj1DKww==
APPLICATION_TYPE=FCUBS
EXTERNAL_PROPERTY_PATH=
DECENTRALIZED=N
EAR_NAME=FCUBSMULT
EXTERNAL_JSUIXML_PATH=
EAR_DESTINATION_PATH=D:/14.1/INSTALLER/multi
ENTITY_NOS=2
DECENTRALIZED_FCUBS_PROPERTIES_PATH=
CONNECTING_STRING_ENTITY_ID2=FC141INSTESTPDB
CONNECTING_STRING_ENTITY_ID1=FC141INSTESTPDB
HOST_ENTITY_ID2=2/8gbcFjgT1KiiSYgRiG9anIzl3s66mDaAL9CF3Rt8I=
SERVICE_NAME_ENTITY_ID2=YtfaW53ngv1Tcgyh3fgZPA==
HOST_ENTITY_ID1=2/8gbcFjgT1KiiSYgRiG9anIzl3s66mDaAL9CF3Rt8I=
ConfigPath=D:/14.1/INSTALLER/Console_EXEC_24apr/Console_EXEC/INSTALLER/SOFT/config/A
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=FC141INSTESTPDB
JAVA_HOME=C:/Program 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 in a single property file. Some properties may not be applicable during the certain setup, and those should not be modified (should be left with default values).

ORACLE

Config Path

The absolute path to the folder containing the config files is to be provided. This is located under \INSTALLER\SOFT\config\Application

Java Home

Provide Home folder path of JDK1.8.

Oracle Home

Provide home folder path of Oracle Client or Database

Varedited

This property should not be changed. This is an internal property required by installer to identify if any changes are required in env.properties

Source and **Destination** Path

Specify the destination directory. Here destination path should be same as the source file path

FCUBS_PROPERTIES_PATH

Path where the fcubs property file is located .

GW_PROPERTIES_PATH

Provide the Gateways Properties Path.

APPLICATION_TYPE

Application Type is maintained as per the Application Name selected in the GUI Installer.

EXTERNAL PROPERTY PATH

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'.

EXTERNAL JSUIXML PATH

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'.

EAR_NAME

Specify a name for the Application to be created.

EAR DESTINATION PATH

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.

CONTEXT_NAME

Specify a name for the Application Context

FCHome

Provide the FCHome Path. This will be the source path for DB setup/EAR build.

USER_NAME

Give the Schema Name

PASSWORD

Here Password should be encrypted. As Schema details provided by the GUI Installer, the env.properties file generates the encrypted password.

Schema

Give the Instance Name.

NOTE: Path is maintained with '\\' as it is maintained only for WINDOWS. '\' slash will be considered as an escape character so '\\' slash is given in windows.

On launch of the 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 OBCL folder from OBCL OSDC zip should be placed parallel to ROFC folder in the ROFC OSDC zip.

If ELCM needs to be installed as Co-deployed along with ROFC, then the ELCM folder from the 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 be installed 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. Steps to Configure TNS_ADMIN

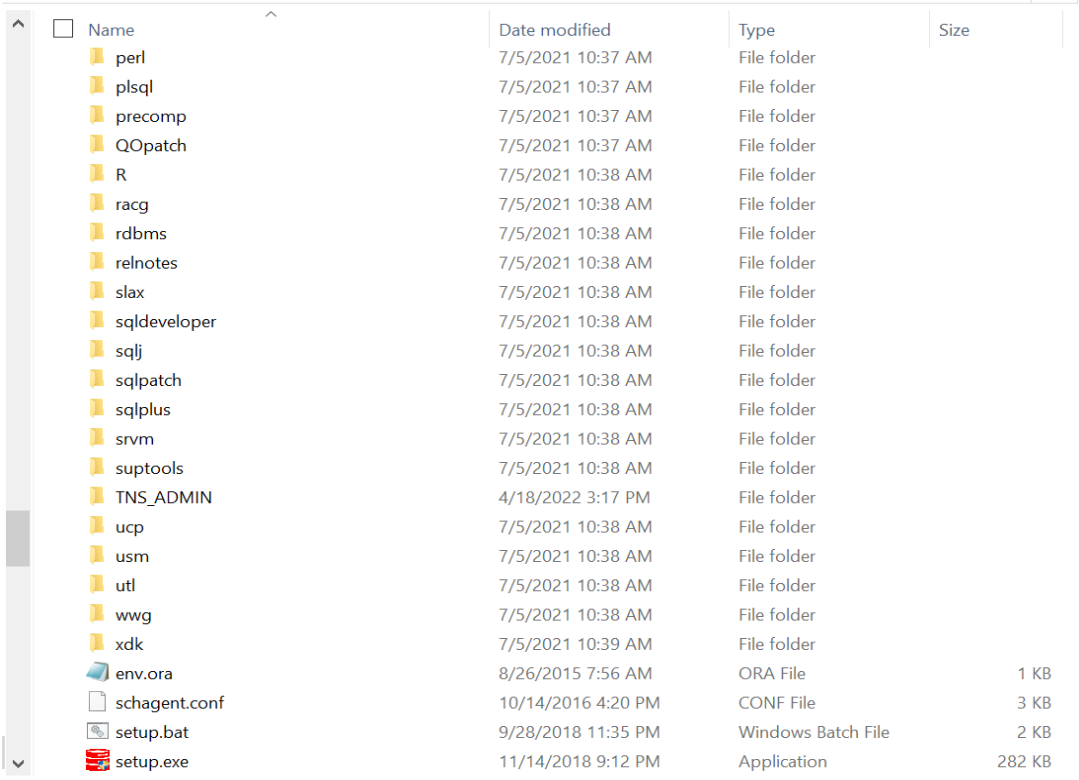
Entry Criteria / Pre-Requisite:

- Oracle Database/Instant Client must be installed and present in the Windows or Linux Machine where this setup is being done.
- Autonomous Database Wallet provided by the Database Administrator

2.1 Configuring TNS ADMIN in Windows Machine

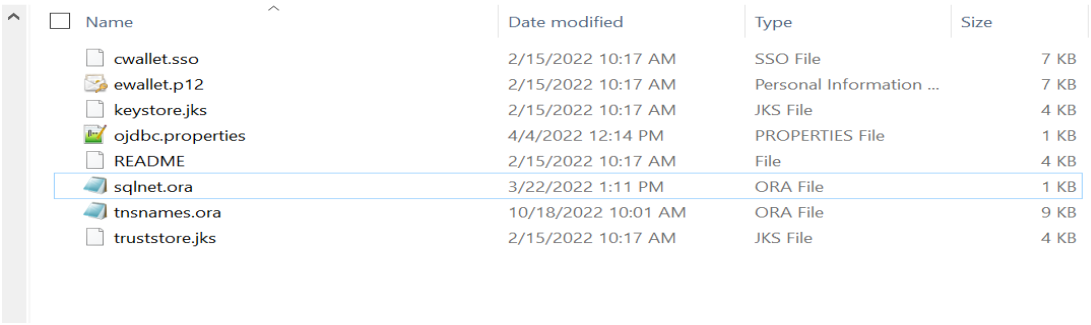
1. Create a new folder called TNS_ADMIN in Oracle Database/Instant Client Home path.

For example, Oracle Home path: C:/Software/Installation/WINDOWS.X64_193000_db_home



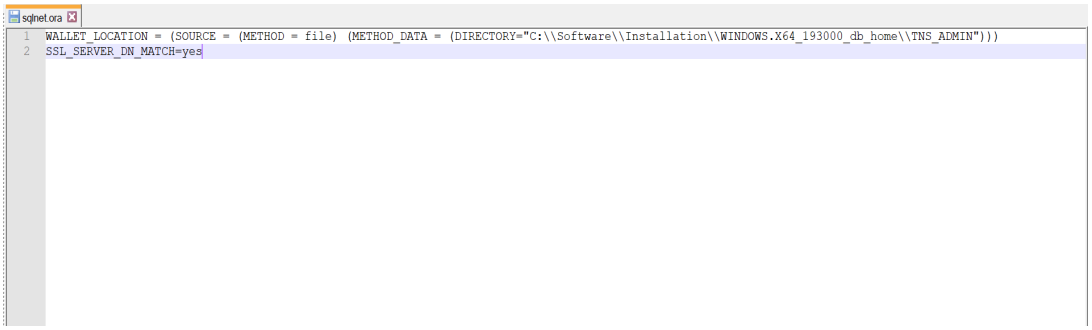
Name	Date modified	Type	Size
perl	7/5/2021 10:37 AM	File folder	
plsql	7/5/2021 10:37 AM	File folder	
precomp	7/5/2021 10:37 AM	File folder	
QOpatch	7/5/2021 10:37 AM	File folder	
R	7/5/2021 10:38 AM	File folder	
racg	7/5/2021 10:38 AM	File folder	
rdbms	7/5/2021 10:38 AM	File folder	
relnotes	7/5/2021 10:38 AM	File folder	
slax	7/5/2021 10:38 AM	File folder	
sqldeveloper	7/5/2021 10:38 AM	File folder	
sqlj	7/5/2021 10:38 AM	File folder	
sqlpatch	7/5/2021 10:38 AM	File folder	
sqlplus	7/5/2021 10:38 AM	File folder	
srvm	7/5/2021 10:38 AM	File folder	
suptools	7/5/2021 10:38 AM	File folder	
TNS_ADMIN	4/18/2022 3:17 PM	File folder	
ucp	7/5/2021 10:38 AM	File folder	
usm	7/5/2021 10:38 AM	File folder	
utl	7/5/2021 10:38 AM	File folder	
wwg	7/5/2021 10:38 AM	File folder	
xdk	7/5/2021 10:39 AM	File folder	
env.ora	8/26/2015 7:56 AM	ORA File	1 KB
schagent.conf	10/14/2016 4:20 PM	CONF File	3 KB
setup.bat	9/28/2018 11:35 PM	Windows Batch File	2 KB
setup.exe	11/14/2018 9:12 PM	Application	282 KB

2. Extract the Autonomous Database wallet inside the TNS_ADMIN folder.



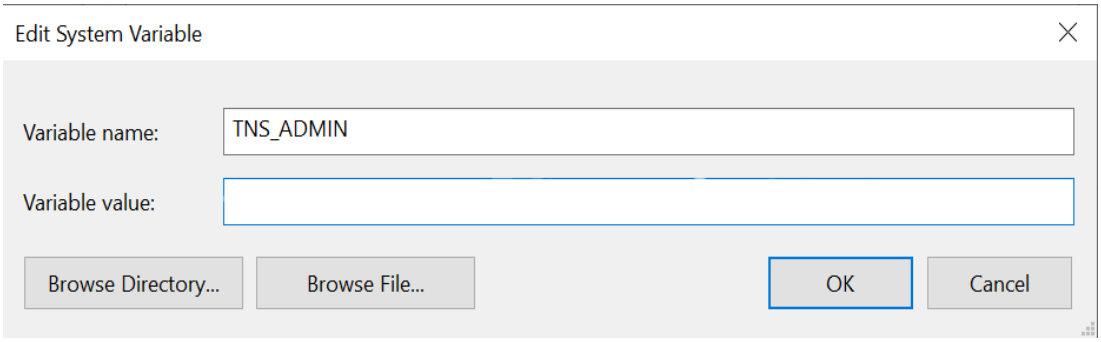
3. Edit the **sqlnet.ora** file and update the DIRECTORY path in the **sqlnet.ora** with the TNS_ADMIN folder path. Make sure to use \\ as the folder/directory separator in the path value.

For Example: C:\\Software\\Installation\\WINDOWS.X64_193000_db_home\\TNS_ADMIN



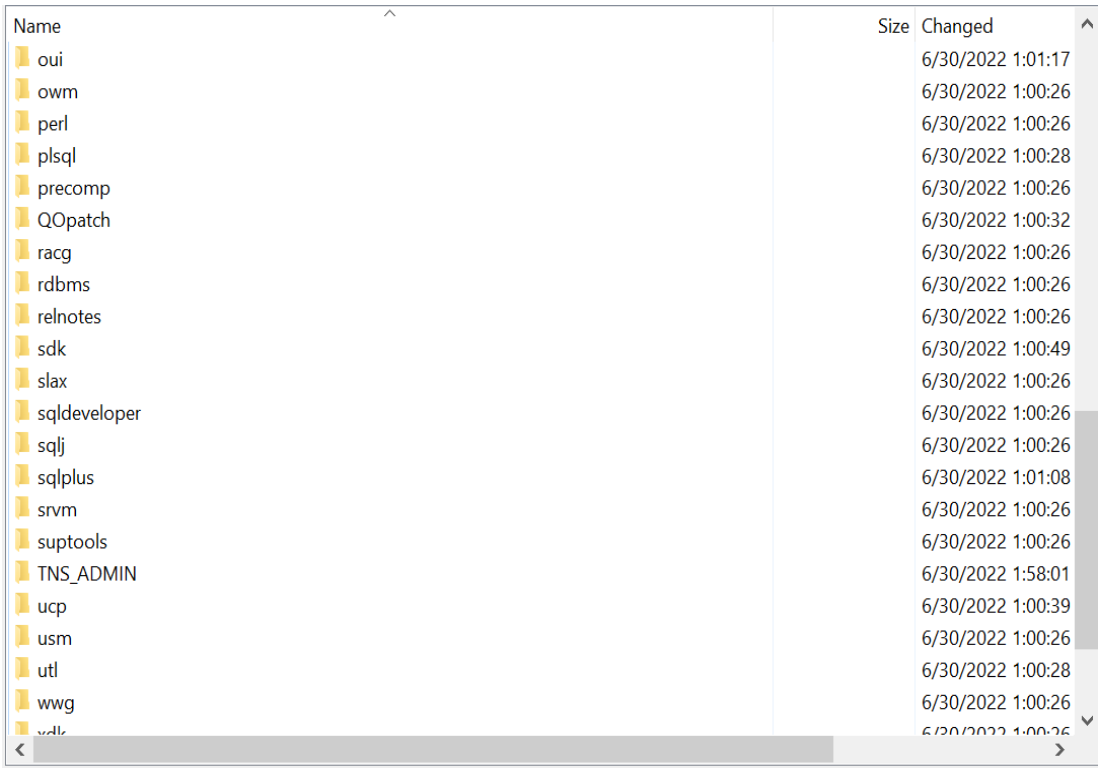
4. Go to the **Edit the System Environment Variable** option in a machine and press **New** in the System Variables.

5. Enter the value for the Variable name as **TNS_ADMIN** and Variable value as TNS_ADMIN path and press **OK**.



2.2 Configuring TNS_ADMIN in Linux Machine

1. Create a new folder called TNS_ADMIN in Oracle Database/Instant Client Home path.

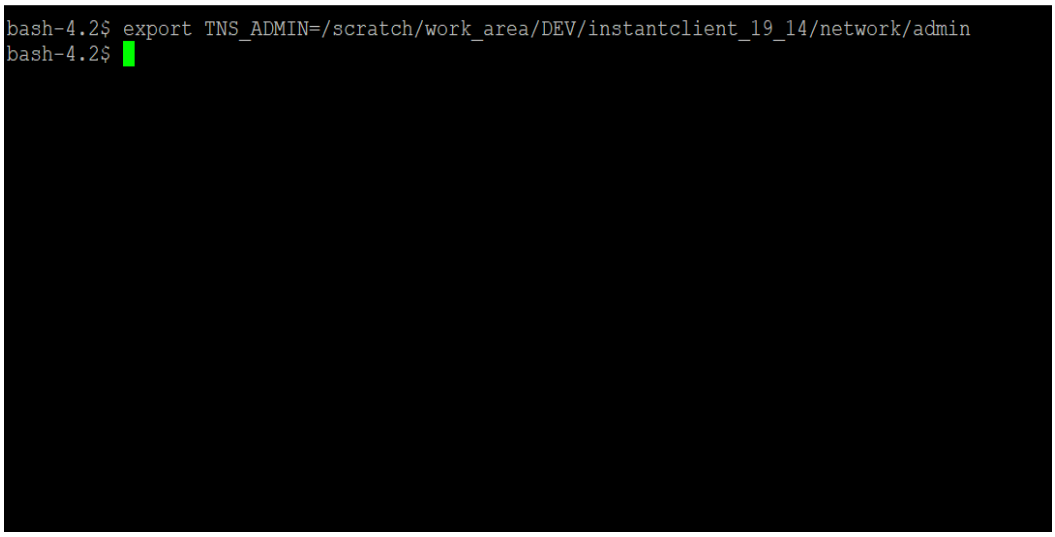


2. Extract the Autonomous Database wallet inside the TNS_ADMIN folder.



3. Export the TNS_ADMIN path to the Linux machine.

export TNS_ADMIN=<Application Server TNS ADMIN path>



3. Prerequisites for Oracle Banking FLEXCUBE Universal Banking Product Installation

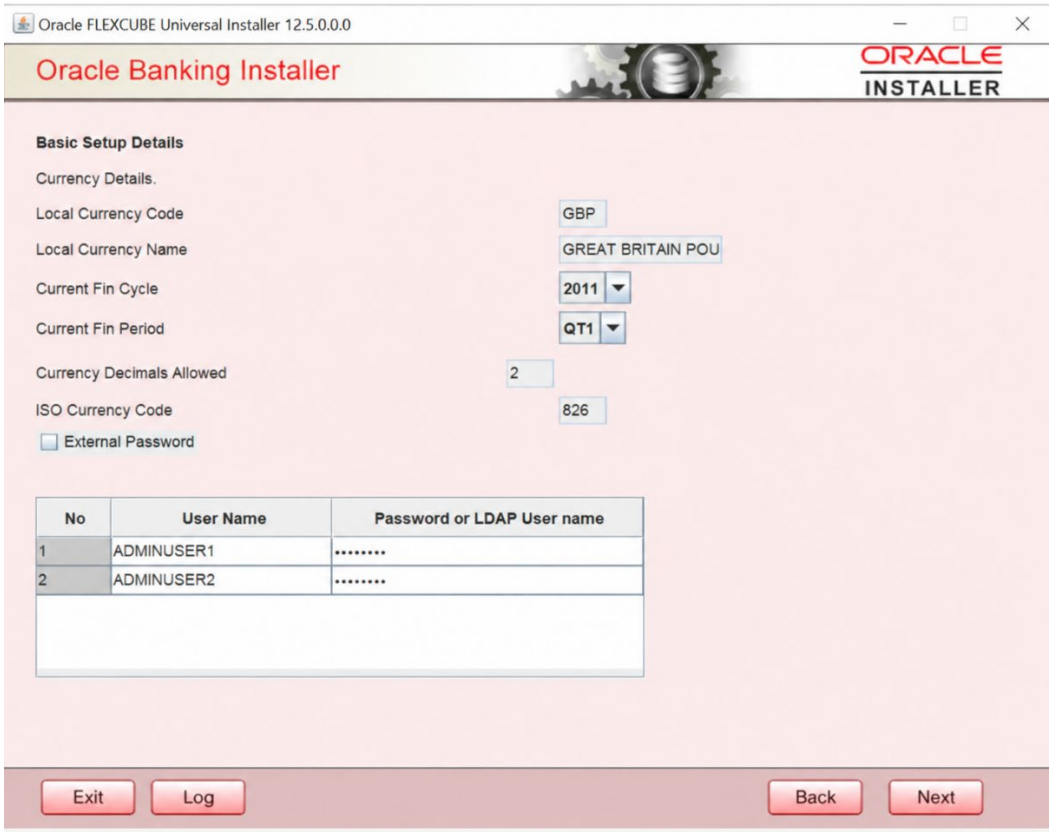
3.1 Oracle Banking Microservices Architecture Product or Foundation and Oracle Banking Microservices Architecture Basic Setup Dependency

1. Oracle Banking Microservices Architecture Product or Oracle Banking Microservices Architecture Foundation:

   - Complete the Oracle Banking Microservices Architecture Product or Oracle Banking Microservices Architecture Foundation Installation before starting the Oracle FLEXCUBE Universal Banking Product Installation.

2. Basic setup Dependency:

   - Oracle Banking Microservices Architecture Product or Oracle Banking Microservices Architecture Foundation Basic setup should be completed before starting the Oracle FLEXCUBE Universal Banking Basic setup.
   - In Oracle FLEXCUBE Universal Banking Basic setup using GUI Installer, the following entities are display fields and display the values maintained in Oracle Banking Microservices Architecture Product or Oracle Banking Microservices Architecture Foundation Basic Setup.
     - Bank Code
     - Bank Name
     - Branch Code
     - Country Code
     - Country Description
     - Local Currency Code
     - Local Currency Name
     - Currency Decimal Allowed
     - ISO Currency Code
     - Host Code
     - Input Date
     - Current Business Date
     - Previous Business Date
     - Next Business Date


Oracle FLEXCUBE Universal Installer 12.5.0.0.0
Oracle Banking Installer
ORACLE
INSTALLER
Basic Setup Details
Currency Details.
Local Currency Code
GBP
Local Currency Name
GREAT BRITAIN POU
Current Fin Cycle
2011
Current Fin Period
QT1
Currency Decimals Allowed
2
ISO Currency Code
826
External Password
No
User Name
Password or LDAP User name
1
ADMINUSER1
2
ADMINUSER2
Exit
Log
Back
Next



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