

Oracle® Banking Treasury Management Installer Prerequisite Document



Release 14.7.5.0.0
G16679-01
September 2024

ORACLE®

Copyright © 2020, 2024, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

1 Installer Prerequisite Setup

1.1	Installer Modes	1-1
1.2	Source Structure	1-2
1.3	Environment Setup Steps	1-2

Preface

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)

Purpose

This manual is designed to help you to quickly get acquainted with the prerequisites required for installing of Oracle Banking Application in your system.

Audience

This guide is intended for anyone responsible for installing Oracle Banking Application.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also

mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information, see these Oracle Banking Treasury Management resources:

- *Oracle Banking Treasury Management Release Notes*
- *Oracle Banking Treasury Management Installer Index*
- *Oracle Banking Treasury Management Installer Prerequisite*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The acronyms and abbreviations are listed in this below table:

Table Acronyms and Abbreviations

Abbreviations or Acronyms	Definition
DV	Derivatives
DSN	Data Source name
EAR	Enterprise archive
ETD	Exchange Traded Derivatives
FX	Foreign Exchange
FCUBS	Oracle FLEXCUBE Universal Banking
LDAP	Lightweight Directory Access Protocol
JDBC	Java Database Connectivity
JVM	Java Virtual Machine

Table (Cont.) Acronyms and Abbreviations

Abbreviations or Acronyms	Definition
MM	Money Market
OBTR	Oracle Banking Treasury Management
OT	Over the Counter Options
SE	Securities
SR	Securities Repo
SMS	Security Management System
UI	User interface

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 has to be used during setup of environment:

- [Installer Modes](#)
This topic describes the two types of the installer modes.
- [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.

1.1 Installer Modes

This topic describes the two types of the installer modes.

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

In Linux – For creating the property file

To set the variables, perform the following:

1. Export the following:
export JAVA_HOME=JAVA_HOME path
export PATH=JAVA_HOME/bin:\$PATH

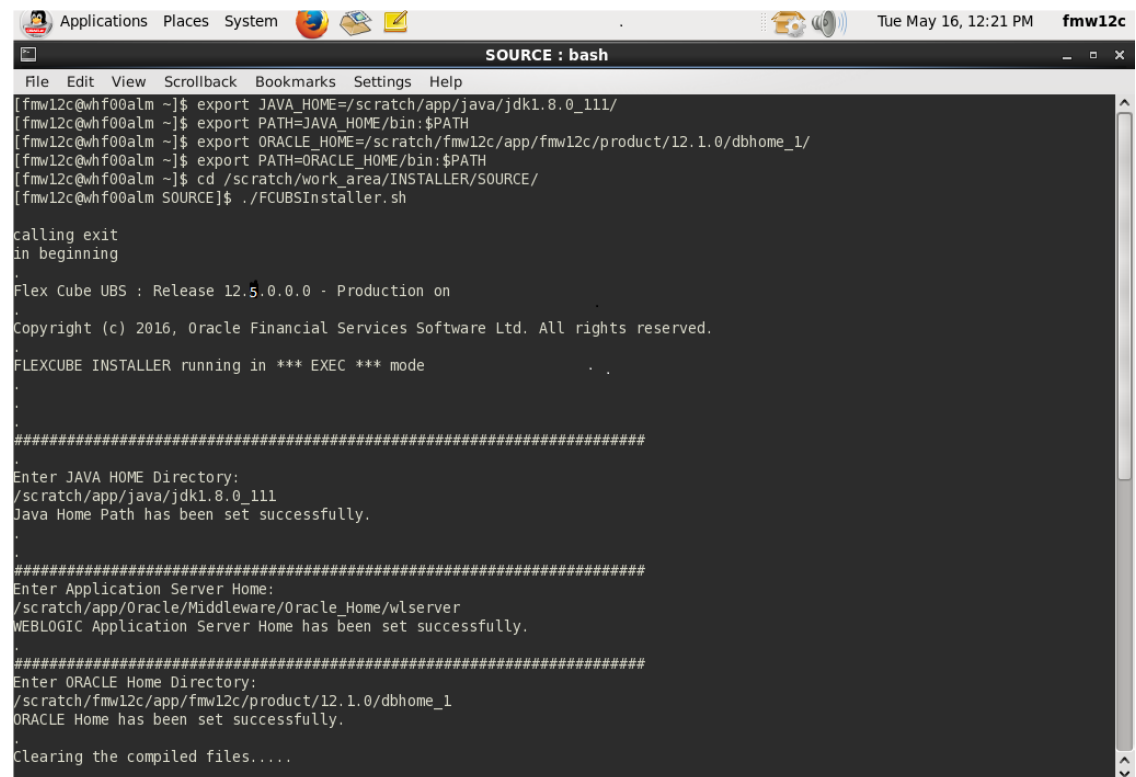
- ```
export ORACLE_HOME=ORACLE_HOME path
export PATH=ORACLE_HOME/bin:$PATH
```
2. Now traverse to the path where FCUBSInstaller.sh file is present in the server.
  3. Give access rights to the file and Run **/FCUBSInstaller.sh** file.
  4. Provide the necessary home path to set and launches the Installer.
  5. Run the **./FCUBSInstaller.sh** file in any graphical desktop sharing system like TigerVNC.

## 1.2 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:

**Figure 1-1 Source Structure**



```
Applications Places System
SOURCE : bash
File Edit View Scrollback Bookmarks Settings Help
[fmw12c@whf00alm ~]$ export JAVA_HOME=/scratch/app/java/jdk1.8.0_111/
[fmw12c@whf00alm ~]$ export PATH=JAVA_HOME/bin:$PATH
[fmw12c@whf00alm ~]$ export ORACLE_HOME=/scratch/fmw12c/app/fmw12c/product/12.1.0/dbhome_1/
[fmw12c@whf00alm ~]$ export PATH=ORACLE_HOME/bin:$PATH
[fmw12c@whf00alm ~]$ cd /scratch/work_area/INSTALLER/SOURCE/
[fmw12c@whf00alm SOURCE]$./FCUBSInstaller.sh

calling exit
in beginning

Flex Cube UBS : Release 12.5.0.0.0 - Production on

Copyright (c) 2016, Oracle Financial Services Software Ltd. All rights reserved.

FLEXCUBE INSTALLER running in *** EXEC *** mode

#####

Enter JAVA HOME Directory:
/scratch/app/java/jdk1.8.0_111
Java Home Path has been set successfully.

#####

Enter Application Server Home:
/scratch/app/Oracle/Middleware/Oracle_Home/wlserver
WEBLOGIC Application Server Home has Been set successfully.

#####

Enter ORACLE Home Directory:
/scratch/fmw12c/app/fmw12c/product/12.1.0/dbhome_1
ORACLE Home has been set successfully.

Clearing the compiled files.....
```

The OBTR\_OSDC.zip can be used without any modifications.

## 1.3 Environment Setup Steps

This topic explains the systematic instructions to setup the environment.

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

**Figure 1-2 Environment configuration**

```
#Thu Nov 16 15:05:27 IST 2017
EXTERNAL_JSUIXML_REQUIRED=N
FCUBS_PROPERTIES_PATH=D:/Projects/Project-Installer/125_core_support/SOFT/INSTALLER/SOFT/GUI/scheduler.properties
JAVA_HOME=d:/jdk8
DECENTRALIZED=N
RECENT_BROWSE_LOCATION=D:/Projects/Project-Installer/Bugs/125-enhancement/New/propertyfile_testing/elcm-em/FCUBS/fcubs.properties
WEBLOGIC_HOME=D:/Oracle/Middleware/Oracle_Home/wlserver
PATCHSET_INSTALLATION=N
HOST_ENTITY_ID1=a3kM01rHTm7jbLfclTb6Fq677YD7f/xQ/1hDu0HcRIA=
DECENTRALIZED_FCUBS_PROPERTIES_PATH=
CONNECTING_STRING_SMS=PDB123
GW_PROPERTIES_PATH=D:/Projects/Project-Installer/125_core_support/SOFT/INSTALLER/SOFT/logs/GW_WS_Prop.properties
CONNECTING_STRING_ENTITY_ID1=PDB123
APPLICATION_TYPE=FCUBS
SOURCE_PATH=D:/Projects/Project-Installer/125_core_support/SOFT
PASSWORD_SMS=FXCs5z4BQT6dgrlMb7e2zA==
SYMMETRIC_KEY=oraclefinancialsolutions
EAR_DESTINATION_PATH=D:/Projects/Project-Installer/125_core_support/SOFT
EXTERNAL_PROPERTY_PATH=
PASSWORD_ENTITY_ID1=FXCs5z4BQT6dgrlMb7e2zA==
PORT_ENTITY_ID1=1521
ENTITY_NOS=1
EXTERNAL_JSUIXML_PATH=
SERVICE_NAME_ENTITY_ID1=Cy970t1QOGT/UCsy59Shyw==
PORT_SMS=1521
SCHEMA_NAME_ENTITY_ID1=FXCs5z4BQT6dgrlMb7e2zA==
EAR_NAME=FCUBS
COMPILE_IN_ALL_ENTITIES=N
EXTERNAL_PROPERTY_PATH_REQUIRED=N
APPSERVER_HOME=D:/Oracle/Middleware/Oracle_Home/wlserver
SERVICE_NAME_SMS=Cy970t1QOGT/UCsy59Shyw==
HOST_SMS=a3kM01rHTm7jbLfclTb6Fq677YD7f/xQ/1hDu0HcRIA=
SCHEMA_NAME_SMS=FXCs5z4BQT6dgrlMb7e2zA==
CONTEXT_NAME=FCJNeoWeb
ORACLE_HOME=D:/app/sdath/product/12.1.0/client_2
```

**Table 1-1 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> |
| <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>Database Setup</b>                       | The Database setup involves DDL Load, Object Compilation and Static Data Compilation.                                                                                                                            |
| <b>Basic Setup</b>                          | Post INC Load, basic setup has to be done. The Basic setup is done using the GUI Installer.                                                                                                                      |
| <b>Application EAR build</b>                | The Application and Gateway EAR build is done using the Silent Installer.                                                                                                                                        |

**Note:**

A single property file is used for both DB Compilation and EAR build. Hence all the properties are 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).

**CONFIGPATH:** Absolute path to the folder containing the configuration files, is to be provided. Configuration files are located under \INSTALLER\SOFT\config\Application JAVA\_HOME Absolute path to the home folder of JDK 11 is to be provided.

**APPSERVER\_HOME:** Absolute path to the home folder of Application Server.

**ORACLE\_HOME:** Absolute path to the home folder of Oracle Database Client is to be provided.

**SOURCE\_PATH and EAR\_DESTINATION\_PATH:** Specify the destination directory. Here destination path should be same as the source file path

**FCUBS\_PROPERTIES\_PATH:** Absolute path where the fcubs.properties file, is to be provided.

**GW\_PROPERTIES\_PATH:** Absolute path to the Gateway Properties file is to be provided.

**APPLICATION\_TYPE:** Application Type is maintained as per the Application Name selected in the GUI Installer.

**EAR\_NAME:** Specify a name for the Application to be created.

**CONTEXT\_NAME:** Specify a name for the Application Context

**EXTERNAL\_JSUIXML\_REQUIRED:** This field explains whether JS and UIXML folders are external or integrated within ear file. It Holds values as 'Y' or 'N'.

EXTERNAL\_JSUIXML\_REQUIRED=Y indicates that JS and UIXMLs are not within the ear file generated.

**EXTERNAL\_JSUIXML\_PATH:** This path is mandatory if

EXTERNAL\_JSUIXML\_REQUIRED=Y. JS and UIXMLs generated during ear file creation should be placed in the path given.

**WEBLOGIC\_HOME:** Absolute path to the home folder of weblogic.

**PATCHSET\_INSTALLATION:** Parameter value will be 'N' for console and 'Y' for patchset installation.

**EXTERNAL\_PROPERTY\_PATH\_REQUIRED:** This field explains whether property file is external or integrated within ear file.

**EXTERNAL\_PROPERTY\_PATH:** This path is mandatory if

EXTERNAL\_PROPERTY\_PATH\_REQUIRED =Y.

**SYMMETRIC\_KEY:** This key is used for encryption logic.

The below parameters stores SMS Schema details:

**HOST\_SMS:** Host name of SMS Schema will be stored in encrypted format.

**SCHEMA\_NAME\_SMS:** Schema name will be encrypted and stored

**PASSWORD\_SMS:** encrypted form of password will be saved against this parameter.

**SERVICE\_NAME\_SMS:** encrypted form of Service name.

**PORT\_SMS:** contains Port number of SMS Schema.

**CONNECTING\_STRING\_SMS:** Encrypted connected String of SMS Schema.

**ENTITY\_NOS:** it stores the number of Entity Schemas required. The below parameters stores Entity Schema details. This information will be captured for all the entities with respective entity name as suffix.

**HOST\_ENTITY\_ID1:** Host name of Entity Schema will be stored in encrypted format.

**SCHEMA\_NAME\_ENTITY\_ID1:** Entity Schema name will be encrypted and stored

**PASSWORD\_ENTITY\_ID1:** encrypted form of password will be saved against this parameter.

**SERVICE\_NAME\_ENTITY\_ID1:** encrypted form of Service name.

**PORT\_ENTITY\_ID1:** contains Port number of first Entity Schema.

**CONNECTING\_STRING\_ENTITY\_ID1:** Encrypted connected String of Entity Schema

**COMPILE\_IN\_ALL\_ENTITIES:** This parameter holds value as 'Y' or 'N'. If 'N' then necessary objects will be compiled in all the entities mentioned.

**Note:**

Paths have to be maintained with '/' separator as it is maintained only for WINDOWS. ' \' slash is considered as an escape character so '/' slash is given in windows.

In the process of property file creation, when Save is clicked at the end, Property file is saved in \INSTALLER\GUI\LOGS.

On launch of GUI Installer for creating the property file, the env properties file gets generated which is present in \INSTALLER\SOURCE\logs path need to be manually 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 PAYMENTS needs to install as Co-deployed along with OBTR then PAYMENTS folder from PAYMENTS OSDC zip should be placed parallel to OBTR folder in the OBTR OSDC zip.

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

For Queues and Queue Connection Factory, please refer to the Resources to be created document.

Following are the examples to execute for EAR Run, Gateway EAR Run and DB Compile for both Windows and Linux.

**Table 1-2 Examples**

| For Linux              | For Windows             | Product Used             |
|------------------------|-------------------------|--------------------------|
| SMSDBCompileRun.sh     | SMSDBCompileRun.bat     | SMS DB                   |
| TREarRun.sh            | TREarRun.bat            | TREASURY MANAGEMENT      |
| TRDBCompileRun.sh      | TRDBCompileRun.bat      | TREASURY DB              |
| TRGatewayEarRun.sh     | TRGatewayEarRun.bat     | TREASURY GATEWAYS (SOAP) |
| TRGatewayRestEarRun.sh | TRGatewayRestEarRun.bat | TREASURY GATEWAY (REST)  |
| TRSchedulerEarRun.sh   | TRSchedulerEarRun.bat   | TREASURY SCHEDULER       |