Oracle® Banking Treasury Management

Installer Prerequisite Document

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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.

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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.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	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

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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

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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

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export ORACLE_HOME=ORACLE_HOME path

export PATH=ORACLE_HOME/bin:$PATH

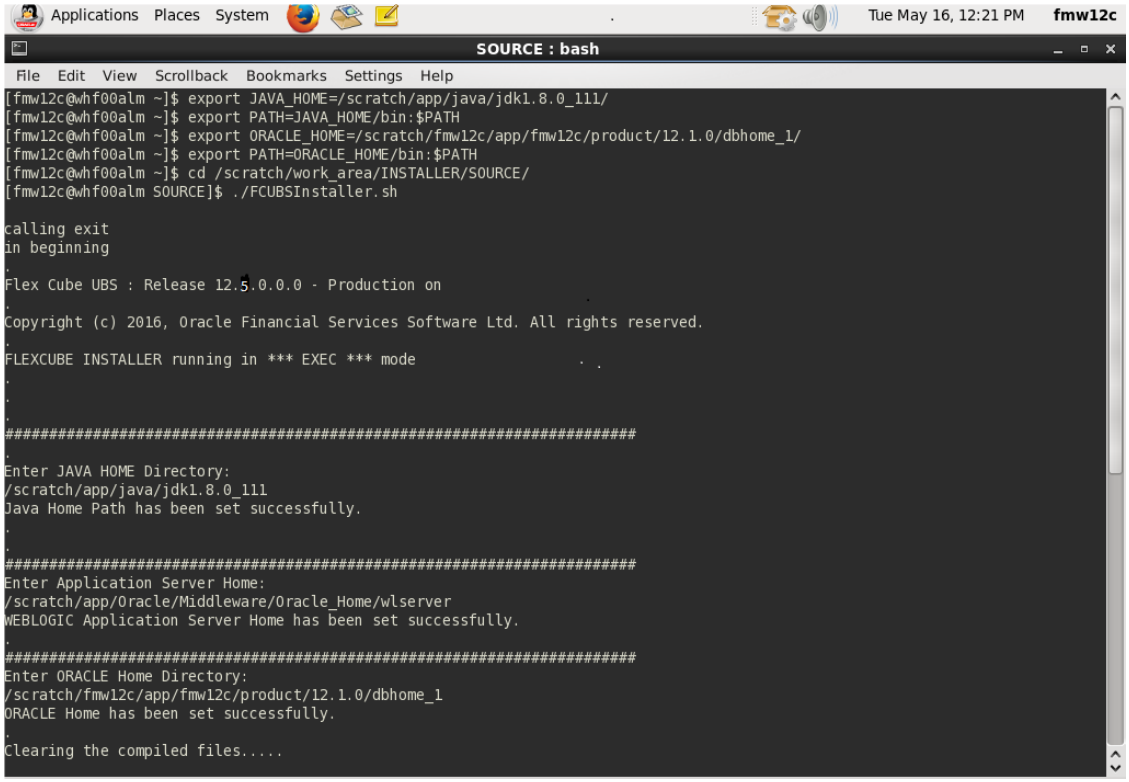
2. Now traverse to the path where FCUBSInstaller.sh file is present in the server.
3. Give access rights to the file and Run **/FCUBSInstaller.sh** file.
4. Provide the necessary home path to set and launches the Installer.
5. Run the **./FCUBSInstaller.sh**" file in any graphical desktop sharing system 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



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.

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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=a3kM01rHTm7jbLfc1Tb6Fq677YD7f/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=CY97Ot1QOGT/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=CY97Ot1QOGT/UCsy59Shyw==
HOST_SMS=a3kM01rHTm7jbLfc1Tb6Fq677YD7f/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
Property File Creation	Two property files are generated: • "fcubs.properties" required for application (EAR). • "env.properties" common property required for environment setup.
Populating environment property file	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.
Database Setup	The Database setup involves DDL Load, Object Compilation and Static Data Compilation.
Basic Setup	Post INC Load, basic setup has to be done. The Basic setup is done using the GUI Installer.
Application EAR build	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.

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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

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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

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