

Oracle® Banking Payments

Payments Installer WAR Building



Release 14.8.0.0.0

G32371-03

May 2025

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

ORACLE®

Oracle Banking Payments Payments Installer WAR Building, Release 14.8.0.0.0

G32371-03

Copyright © 2017, 2025, 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 Preface

| | | |
|-----|-----------------------------|-----|
| 1.1 | Purpose | 1-1 |
| 1.2 | Audience | 1-1 |
| 1.3 | Documentation Accessibility | 1-1 |
| 1.4 | Critical Patches | 1-1 |
| 1.5 | Diversity and Inclusion | 1-2 |
| 1.6 | Conventions | 1-2 |

2 Building Application for Setup

| | | |
|-----|--|-----|
| 2.1 | WAR Build Process | 2-1 |
| 2.2 | Standalone Setup | 2-3 |
| 2.3 | OBMA Foundation Service WAR File | 2-3 |
| 2.4 | Payments WAR Files Generation | 2-3 |
| 2.5 | API Gateway Router | 2-4 |
| 2.6 | Co-deployed Set-up - Combining Payments with FCUBS | 2-4 |

1

Preface

- [Purpose](#)
- [Audience](#)
This manual is intended for the following User/User Roles:
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)

1.1 Purpose

This guide is designed to help acquaint you with the Oracle Banking Payments application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

1.2 Audience

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

Table 1-1 User Roles

| Role | Function |
|---------------------------|--|
| Implementation & IT Staff | Implementation & Maintenance of the Software |

1.3 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 customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 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](#).

1.5 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.

1.6 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. |
| <i>italic</i> | 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. |

2

Building Application for Setup

- [WAR Build Process](#)
- [Standalone Setup](#)
- [OBMA Foundation Service WAR File](#)
- [Payments WAR Files Generation](#)
- [API Gateway Router](#)
- [Co-deployed Set-up - Combining Payments with FCUBS](#)

2.1 WAR Build Process

1. The process of building WAR files includes the following steps:
 - Obtain the Fcubs.properties file by generating the GUI Installer which is saved in the required path.
 - Run the PMEarRun.bat file for windows and PMEarRun.sh file for linux.
2. To build the application for setup using the Silent Installer, follow the steps given below:
Maintain the fcubs.properties file path which is created through GUI Installer otherwise WAR may fail if the fcubs property file path is not provided.
3. Maintain the Environment Property File by inputting all the fields
FCUBS_PROPERTIES_PATH Mention the property file path with file name where it is been placed.

Figure 2-1 Environment Property File

```
#Thu Apr 17 13:39:05 IST 2025
TNS_ADMIN_HOME=
OBMA_PRODUCT_INSTALLED=N
EXTERNAL_PROPERTY_PATH=
ENTITY_ID1=ENTITY_ID1
EAR_NAME=FCUBS
COMPILE_IN_ALL_ENTITIES=N
PATCHSET_INSTALLATION=N
CONNECTING_STRING_ENTITY_ID1=xxxxxxxxxxxx
DESTINATION_PATH=D:/OBPM_14.8.0.0.0/EARLOCATION
CONNECTING_STRING_SMS=xxxxxxxxxxxxxxxx
EXTERNAL_JSUIXML_REQUIRED=Y
PORT_ENTITY_ID1=1521
EAR_DESTINATION_PATH=D:/OBPM_14.8.0.0.0/EARLOCATION
APPSERVER_HOME=D:/FMW1412/wlserver
GW_PROPERTIES_PATH=D:/OBPM_14.8.0.0.0/INSTALLER/SOFT/logs/GW_WS_Prop.properties
CLOUD_INSTALLATION=N
SERVICE_NAME_ENTITY_ID1=8WjKNtpwSydJj1SKkcOjfw6DiBMSnZCppSMkWg==
PASSWORD=
AUTONOMOUS_DATABASE_INSTALLED=N
ZDT_OBJECTS_ACTUALIZATION_REQUIRED=Y
SYMMETRIC_KEY=oraclefinancials
SINGLE_FIX_SOURCE=N
ZDT_OBJECTS_COMPILE_THREAD=1
SOURCE_PATH=D:/OBPM_14.8.0.0.0/
BASE_EDITION=
APPLICATION_TYPE=FCUBS
EXTERNAL_JSUIXML_PATH=/scratch/work_area/OBPM148/JSUIXML/
NUMBER_OF_CPU_CORES_FOR_ZDT_RECOMP=4
JAVA_HOME=C:/Program Files/Java/jdk-17
PM_Config_Path=D:/OBPM_14.8.0.0.0/PM/INSTALLER/SOFT/config/Application
CONTEXT_NAME=FCJNeoWeb
DECENTRALIZED=N
ENTITY_NOS=1
SCHEMA_NAME_SMS=7HC2QaZ7P55Iiud/g/K1GqXZ030UDWSZqdM=
SCHEMA_NAME_ENTITY_ID1=7HC2QaZ7P55Iiud/g/K1GqXZ030UDWSZqdM=
SCHEMA=
PORT_SMS=1521
DECENTRALIZED_FCUBS_PROPERTIES_PATH=
ORACLE_HOME=D:/app/Client/product/19.0.0/client_1
JSESSION_ID=
ZDT_PATCHING=N
WEBLOGIC_HOME=D:/FMW1412/wlserver
PASSWORD_SMS=7HC2QaZ7P55IikmY4R8gFuWSAaC0TT0ALKIH+Mdq
USER_NAME=
HOST_SMS=jQ23W6kEXUku/TiJp8u7FmJa+3IrNfo0w56TMjU=
SERVICE_NAME_SMS=8WjKNtpwSydJj1SKkcOjfw6DiBMSnZCppSMkWg==
PATCHSET_EDITION=
HOST_ENTITY_ID1=jQ23W6kEXUku/TiJp8u7FmJa+3IrNfo0w56TMjU=
PASSWORD_ENTITY_ID1=7HC2QaZ7P55IikmY4R8gFuWSAaC0TT0ALKIH+Mdq
ConfigPath=D:/OBPM_14.8.0.0.0/INSTALLER/SOFT/config/Application
FCHome=D:/OBPM_14.8.0.0.0/Console/
EXTERNAL_PROPERTY_PATH_REQUIRED=N
FCUBS_PROPERTIES_PATH=D:/OBPM_14.8.0.0.0/INSTALLER/SOFT/GUI/fcubs.properties
varedited=N
```

4. Maintain the following Application Type according to the product type.

| Product Type | Application Type | WAR Name |
|---------------|------------------|---|
| PAYMENTS | FCUBS | Any Distinct Name Ex: <ul style="list-style-type: none"> FCJNeoWeb.war SMWeb.war (For Standalone SMS Service) FCJPlatoReST.war |
| GW-Integrated | INTEGRATED | Any Distinct Name |
| GW-Individual | INDIVIDUAL | Not Required |
| GWMDB,HTTP | GATEWAY | Any Distinct Name Ex: GWMDB.war |

| Product Type | Application Type | WAR Name |
|--------------|------------------|---|
| Scheduler | SCHDLR | Any Distinct Name Ex:FCJSchedulerWeb.war |

2.2 Standalone Setup

1. Goto \INSTALLER\SOFT path and execute the PMEarRun.bat file in Windows (PMEarRun.sh in Linux) for Payments WAR build.

WAR file will be generated in the mentioned source path. Similarly for all the WAR Build follow the same steps.

If EXT_JSUIXML is checked then JS_UIXML folder will be created parallel to INFRA folder, which should be manually copied to Deployment Path mentioned in env.properties.

2. For STAND ALONE SCHEDULER, execute SchedulerEarRun.bat in windows (SchedulerEarRun.sh in linux).

Note:

Gateways Property Path is not required.

2.3 OBMA Foundation Service WAR File

1. Payment Application require two war files of the OBMA Foundation. These war files are located under MICROSERVICE\PLATO_FOUNDATION.
2. Use these war files as provided in the distribution.

| OBMA Foundation WAR File | OBMA Foundation WAR File |
|-----------------------------------|--------------------------|
| plato-discovery-service-9.6.0.war | 1 |
| plato-config-service-9.6.0.war | 2 |

2.4 Payments WAR Files Generation

1. Folder MICROSERVICE contain a tar file obpm_services.tar.gz
2. Extract the content of this tar file to get a folder obpm_services.
3. Navigate to the obpm_services.
4. Edit file generateWarCommonEnv.sh to set the variable JDK_BIN_PATH with a value pointing to the location where JDK executable is located.
5. Execute script shgenerateAllWars.sh
6. This script will generate a war file within each folder. For example: <extracted folder>/obpm_services/obpm-foundation-service/obpm-foundation-service-9.6.0.war

List of war files and their dependencies.

Details of each war file are mentioned in the Release Notes.

The deployment order with same number means they can be deployed in parallel.

| WAR File Name | Payment Types / Features | Deployment Order (Continued from previous section) |
|------------------------------------|--|---|
| obpm-api-gateway | -- | 3 |
| obpm-foundation-service | Single Pay, C2B File Processing, Master Jobs, File Envelop | 4 |
| obpm-interface-service | Asynchronous responses from the External Systems | 5 |
| obpm-generic-service | Book Transfer, Generic ACH CT and DD Services | 6 |
| obpm-crossborder-service | Cross Border Payments Service | 7 |
| obpm-china-service | China Payments Service | 7 |
| obpm-europe-service | SEPA CT and DD Services | 7 |
| obpm-europe-instant-service | SEPA Instant Payment Service | 7 |
| obpm-us-service | US ACH and Fedwire Payment Services | 7 |
| obpm-us-instant-service | US RTP Payment Services | 7 |
| obpm-india-service | India NEFT and RTGS Payment Services | 7 |
| obpm-india-upi-fin-service | India UPI Services | 7 |
| obpm-india-upi-nonfin-service | India UPI Services | 7 |
| obpm-india-upi-ppsp-fin-service | India UPI Services | 7 |
| obpm-india-upi-ppsp-nonfin-service | India UPI Services | 7 |
| obpm-india-imps-service | India IMPS Services | 7 |

2.5 API Gateway Router

1. API Gateway router is an executable jar file located in MICROSERVICE\obpm_services\obpm-apigateway-router.
2. Use this jar file as provided in the distribution.
3. Jar file name: obpm-apigateway-router-9.6.0.jar

2.6 Co-deployed Set-up - Combining Payments with FCUBS

1. Copy below folders from Payments OSDC.zip to the FCUBS OSDC.zip.
 - INFRA\PM*
 - INFRA\PS*
2. Copy the PM folder from Payments OSDC.zip to the FCUBS OSDC.zip.
3. Copy all below files from folder INSTALLER\SOFT\config\Application from Payments OSDC.zip to the folder INSTALLER\SOFT\config\Application\ in FCUBS OSDC.zip.
 - AntLibrary_PM.xml
 - FCJ_applicationPM.xml
 - FCJ_applicationPMFasterPay.xml

- FCJ_applicationPMGateway.xml
 - FCJ_applicationPMRest.xml
 - MANIFEST_PM.properties
 - PM.properties
4. Please add entry for FCPMTS to the file FCHome.ini located in FCUBS OSDC.zip from FCHome.ini located in Payments OSDC.zip with the value of proper patchset no for eg as below
FCPMTS: 14.8.0.0.0
 5. Generate the fcubs.properties file with Payments and FCUBS details.
 6. In env.properties, Application Type is FCUBS.
 7. Go to \INSTALLER\SOFT path and execute the ROFCEarRun.bat or GenericEarRun.bat bat file in windows (ROFCEarRun.sh or GenericEarRun.sh in Linux) for FCUBS + Payments WAR build.
 8. For Codeployed, Gateway EAR creation execute ROFCGatewayEarRun.bat (ROFCGatewayEarRun.sh in Linux).
 9. For STAND ALONE SCHEDULER, execute SchedulerEarRun.bat in Windows (SchedulerEarRun.sh in Linux) for ROFC, execute TRSchedulerEarRun.bat in windows (TRSchedulerEarRun.sh in Linux) for OBTR, and execute TFSchedulerEarRun.bat in windows (TFSchedulerEarRun.sh in Linux) for OBTF.
 10. For MDB and HTTP gateways, run the respective bat files i.e. GWEJBEarRun.bat (GWEJBEarRun.sh), GWMDBEarRun.bat (GWMDBEarRun.sh) and GWHTTPEarRun.bat (GWHTTPEarRun.sh).