# License Guide – License Subscription
# Oracle FLEXCUBE Universal Banking
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FINANCIAL SERVICES

**License guide – License Subscription**

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# 1. Preface

## 1.1 Introduction

This document helps you understand the guiding rules for Oracle FLEXCUBE Universal Banking License Subscription licensing, the components included in the license, and the units that are separately licensed.

This document also provides information on the third party software that are packaged with Oracle FLEXCUBE Universal Banking License Subscription.

## 1.2 Audience

This document is intended for the following audience:

- Customers
- Partners

## 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/lookupctx=acc&id=docacc.

## 1.4 Organization

This manual is organized into the following chapters:

| Chapter | Description |
|---|---|
| Chapter 1 | *Preface* gives information on the intended audience. It also lists the various chapters covered in this license guide. |
| Chapter 2 | *Oracle FLEXCUBE Universal Banking License Subscription Licensing* provides information on Oracle FLEXCUBE Universal Banking License Subscription licensing. |
| Chapter 3 | *Software Pre-requisites* consists of the technology pre-requisites required for Oracle FLEXCUBE Universal Banking License Subscription. |
| Chapter 4 | *Third Party Licenses* provides information on licensing of third party software that are packaged with Oracle FLEXCUBE Universal Banking License Subscription. |

## 1.5 Related Documents

For more information, refer to the following documents:

- End user license agreement
- Oracle FLEXCUBE User Manuals

# 2. Oracle FLEXCUBE Universal Banking License Subscription Licensing

## 2.1 Introduction

This chapter provides information on Oracle FLEXCUBE Universal Banking License Subscription licensing. It contains the following sections:

- General licensing rules
- Components included in the license
- Separately licensed pre-requisite products and licensing metric
- Restricted use license

## 2.2 General Licensing Rules

The following table lists out the modules, which are primarily retail or corporate. The licensing rule against each of them defines how these modules will get licensed based on the usage of the bank.

| Sl. No. | Module Description | Licensing Rule(s) |
|---|---|---|
| **Retail Modules** | | |
| 1 | Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription | If the customer is using Universal Banking for Retail programs, these applications may only be licensed by the Account metric. However, if the customer is using Universal Banking for Corporate, and is not using Universal Banking for Retail, then a customer may license these programs under the Application User metric. |
| 2 | Oracle FLEXCUBE Universal Banking Standing Instructions License Subscription | |

| Sl. No. | Module Description | Licensing Rule(s) |
|---|---|---|
| **Corporate Modules** | | |
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| 4 | Oracle FLEXCUBE Universal Banking Commercial Leasing License Subscription | |
| 5 | Oracle FLEXCUBE Integration Gateway License Subscription | |

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1. **Signature Verification**: is included with Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription license.
2. **Islamic Banking Support**: The following Oracle FLEXCUBE Universal Banking License Subscription licenses have support for Islamic Banking.
   - Oracle FLEXCUBE Universal Banking Base License Subscription
   - Oracle FLEXCUBE Universal Banking Asset Management License Subscription
   - Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription
   - Oracle FLEXCUBE Universal Banking Fixed Assets License Subscription
   - Oracle FLEXCUBE Universal Banking Relationship Pricing License Subscription
   - Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans License Subscription
   - Oracle FLEXCUBE Universal Banking Term Deposits License Subscription
   - Oracle FLEXCUBE Universal Banking Islamic Commercial Lending and`Leasing License Subscription

## 2.4 Separately Licensed Pre-requisite Products and Licensing Metric

The module wise list of separately licensed products and the licensing metric is given below.

*For other separately licensable software pre-requisites, refer to the section Software Pre-requisites.*

| Module Description | Separately Licensed Prerequisites | Licensing Metric(s) |
|---|---|---|
| Oracle FLEXCUBE Universal Banking Base* License Subscription | • Oracle FLEXCUBE Development Workbench License Subscription Oracle FLEXCUBE Integration Gateway License Subscription<br>• Oracle Database Enterprise Edition, Partitioning, and TopLink, Application Development Framework | • 1K Accounts<br>• 10K Financial Inclusion Accounts |
| Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • Application User<br>• 1K Accounts 10K Financial Inclusion Accounts |
| Oracle FLEXCUBE Universal Banking Relationship Pricing License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription<br>• Either Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts License Subscription OR Oracle FLEXCUBE Universal Banking Term Deposits License Subscription | • 1K Accounts |
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| Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • 1K Accounts<br>• 10K Financial Inclusion Accounts |
| Oracle FLEXCUBE Universal Banking Nostro Reconciliation License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • Application User<br>• 1K Accounts |
| Oracle FLEXCUBE Universal Banking Standing Instructions License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • Application User<br>• 1K Accounts |

| | | |
|---|---|---|
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| Oracle FLEXCUBE Universal Banking Point of Sale Interface License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • 1K Accounts<br>• 10K Financial Inclusion Accounts |
| Oracle FLEXCUBE Universal Banking Interactive Voice Response Interface License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • 1K Accounts |
| Oracle FLEXCUBE Universal Banking Mortgages License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • 1K Accounts |
| Oracle FLEXCUBE Universal Banking Consumer Leasing License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • 1K Accounts |
| Oracle FLEXCUBE Universal Banking Commercial Leasing License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • Application User<br>• 1K Accounts |
| Oracle FLEXCUBE Universal Banking Inventory Management License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription<br>• Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts License Subscription | • 1K Accounts |
| Oracle FLEXCUBE Universal Banking Microfinance License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans License Subscription | • 1K Accounts |
| Oracle FLEXCUBE Universal Banking Safe Deposit Box License Subscription | • Oracle FLEXCUBE Universal Banking Base License Subscription | • 1K Accounts |
| Oracle FLEXCUBE Universal Banking Corporate Deposits License Subscription | NA | • Application User |

| | | |
|---|---|---|
| Oracle FLEXCUBE Universal Banking Fixed Assets License Subscription | NA | • Application User |
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When licensing Oracle FLEXCUBE Universal Banking modules by Account metric, quantity of Accounts licensed for each Oracle FLEXCUBE Universal Banking module including Base must be same. The sum of Accounts across all licensed modules (excluding Base) on Account metric is to be used as the quantity to be licensed. For example, if customer needs 1,000,000 Accounts of Current Accounts and Savings Accounts, 400,000 Accounts of Term Deposits and 100,000 Accounts of Retail and Small and Medium Enterprise Loans; quantity of 1,500,000 Accounts needs to be licensed for **each** of Base, Current Accounts and Savings Accounts, Term Deposits and Retail and Small and Medium Enterprise Loans modules.

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**NOTE:** # For sending SWIFT FIN messages generated in FLEXCUBE to SWIFT network or for sending FIN messages from SWIFT network to FLEXCUBE, Oracle Banking SWIFT Connectivity Pack SKU needs to be licensed.

## 2.5 Restricted Use License

The following modules have restricted features or functionality for use under the license metric Financial Inclusion Account.

| Product or Component | Restrictions/Features Omitted |
|---|---|
| Oracle FLEXCUBE Universal Banking Base License Subscription | • Customer creation along with account creation is done in a single go without the option of Signature capture and verification.<br>• These customers will not have the Limits linkage<br>• Only Individual type of customers alone can be created. (Corporate/ Bank kind of customers cannot be created) |
| Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription | • System will allow the FI customer to open only a Single Holder savings CASA account and in branch currency only<br>• Temporary OD on FI customer's CASA accounts is allowed for a short term without attaching any collateral or credit linebacking.<br>• Allow mapping an account class with only a single IC product of type "Interest". This IC product is restricted to contain only general conditions and One Debit and One Credit product attached to it.<br>• Check book and Debit card features are not available for FI customer accounts.<br>• The account cannot be salary account |

| Product or Component | Restrictions/Features Omitted |
|---|---|
| Oracle Banking Branch License Subscription | • Allow only the below Branch transactions for a FI customer,<br>• Cash Deposit<br>• Cash Withdrawal<br>• Transfers<br>• Utility payment without external Utility Provider interface |
| Oracle FLEXCUBE Universal Banking ATM Interface License Subscription | No restrictions brought in. |
| Oracle FLEXCUBE Integration Gateway License Subscription | No restrictions brought in. |
| Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans License Subscription | • Following loan features are not available for Financial Inclusion Customer<br>▪ Origination / Onboarding<br>▪ Auto disbursement<br>▪ Rate revisions<br>▪ Provisioning<br>▪ Re-negotiation<br>▪ Amendments<br>• FI Loans are only created in Branch currency<br>• A new screen is made available for loan account input for FI customer |
| Oracle FLEXCUBE Universal Banking Point of Sale Interface License Subscription | No restrictions brought in. |

# 3. Environment Details

Following are the separately licensable software prerequisites for Oracle FLEXCUBE Universal Banking Products.

## 3.1 Software Prerequisites

### 3.1.1 Tech Stack – Oracle

| Component | Machine | Operating System | Software | Version Number |
|---|---|---|---|---|
| Oracle FLEXCUBE Universal Banking | Application Server | Oracle Enterprise Linux Server 8.7 (x86 64 Bit) | Java HotSpot(TM) JDK (with WebLogic Application Server) | 14.1.2.0.0 |
| | | | Java HotSpot(TM) JDK (with WebLogic Application Server) | 17.0.12 |
| | Database Server | Oracle Enterprise Linux Server 8.3 (x86 64 Bit) | Oracle RDBMS Enterprise Edition | 19.25.0.0.0 |
| | UI | Oracle Enterprise Linux Server 8.7 (x86 64 Bit) | Oracle JET | v17.0.3 |
| | Client Machines<br>**Note** - Browser Support is strictly tied to the Browser itself, and no longer based on the Operating System. | | Mozilla Firefox | 132+ |
| | | | Microsoft Edge | 131+ |
| | | | Apple Safari | 17+ |
| | | | Google Chrome | 131+ |
| Oracle FLEXCUBE Machine Learning | Machine Learning Server | Oracle Enterprise Linux server 8.3 (x86 64 bit) | OML4R (Previously Oracle R Enterprise) | 1.5.1 |
| Oracle FLEXCUBE Oracle Digital Assistant Integration | Application Server | Oracle Enterprise Linux Server 8.7 (x86 64 Bit) | oda-native-client-sdk-js | 20.3.1 |

| | | | | | |
|---|---|---|---|---|---|
| Oracle FLEXCUBE Universal Banking Integration Gateway | Web services (incoming) | Integration Server | Oracle Enterprise Linux Server 8.3 (x86 64 Bit) | Oracle WebLogic Server | 14.1.1.0.0 |
| | HTTP Servlet (incoming) | | | | |
| | EJB (incoming) | | | | |
| | MDB (incoming) | | | | |
| | Notifications (outgoing) | | | | |
| Oracle FLEXCUBE Universal Banking | Switch Integration Gateway | Integration Server | Oracle Enterprise Linux Server 8.3 (x86 64 Bit) | JDK | 11.0.16 |
| Switch Integration Gateway | | | | | |
| Oracle FLEXCUBE Universal Banking REST | Web services | Integration Server | Oracle Enterprise Linux Server 8.3 (x86 64 Bit) | JDK | 11.0.16 |
| | | | | Oracle WebLogic Server | 14.1.1.0.0 |
| | | | | Oracle Toplink | 14.1.1.0.0 |
| Oracle FLEXCUBE Machine Learning | Centralized | Machine Learning Server | Oracle Enterprise Linux server 8.3 (x86 64 bit) | OML4R (Previously Oracle R Enterprise) | 1.5.1 |
| Oracle FLEXCUBE Oracle Digital Assistant Integration | Centralized | Application Server | Oracle Enterprise Linux server 8.3 (x86 64 bit) | oda-native-client-sdk-js | 20.3.1 |

**Note:** Browser support is no longer based on Operating Systems but strictly tied to the browser themselves, no matter which Operating Systems they are installed on. Current release is certified on client workstations with Windows 7, 8, 10 and Mac OS X.

## 3.2 Module-wise Software Prerequisites

| Product Name | Product Version | Requirements |
|---|---|---|
| Oracle Fusion Middleware Infrastructure | 12.2.1.4.0 | Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway supports both Oracle Weblogic Server (Fusion Middleware) and WebSphere. |
| Java HotSpot(TM) JDK (with WebLogic Application Server) | 11.0.16 | Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic. |
| Open Symphony Quartz | 2.3.2 | Standard requirement |
| Oracle Toplink | 14.1.1.0.0 | Optional - Required only if limits tracking is required. |
| Oracle RDBMS Enterprise Edition | 19.18.0.0.0 | Standard requirement |

# 4. Third Party Licenses

## 4.1 Introduction

This chapter provides information on licensing of third party software that are packaged with Oracle FLEXCUBE Universal Banking. It contains the following sections:

- Apache License Version 2.0
- MIT License
- Eclipse Public License 2.0
- BSD Licenses


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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Tatu Saloranta (tatu.saloranta@iki.fi): author

Henning Schmiedehausen (hgschmie@github)

* Reported #11: Add `configureAbsentsAsNulls` config setting, for better compatibility with Guava module (2.6.0)

Jerome Loisel (jloisel@github)

* Reported #14: Missing `@type` when serializing Optional<Interface> (2.6.2)

Peter Royal (osi@github)

* Reported #20: fails to serialize empty Optional with @JsonUnwrapped annotation (2.6.4) * Reported #25: OptionalDoubleSerializer does not override acceptJsonFormatVisitor (2.6.4) * Reported,

contributed fix fo #26: `@JsonUnwrapped` on Optional value does not propagate prefix to schema (2.6.4)
Nick Cronin (Quintok@github)
* Reported #21: Manifest file missing OSGi import for `com.fasterxml.jackson.databind.introspect` (2.6.4)
James Lorenzen (jlorenzen@github)
* Requested #18: Allow use of `@JsonInclude(content=Include.NON_EMPTY)` with `Optional<>` (2.7.0)
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The following artifacts are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish

------ Oracle

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* javax.servlet:javax.servlet-api * javax.annotation:javax.annotation-api * javax.transaction:javax.transaction-api * javax.websocket:javax.websocket-api

------ Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons org.ow2.asm:asm

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org.eclipse.jetty.toolchain:jetty-schemas

------ Assorted

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/*

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1. jackson-annotations 2. swagger-annotations 3. slf4j-api

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+- org.springframework.boot:spring-boot-starter | +- org.springframework.boot:spring-boot | | \- org.springframework:spring-context | | \- org.springframework:spring-expression | +- org.springframework.boot:spring-boot-autoconfigure | +- org.springframework.boot:spring-boot-starter-logging | | +- ch.qos.logback:logback-classic | | | +- ch.qos.logback:logback-core | | | \- org.slf4j:slf4j-api | | +- org.apache.logging.log4j:log4j-to-slf4j | | | \- org.apache.logging.log4j:log4j-api | | \- org.slf4j:jul-to-slf4j | +- jakarta.annotation:jakarta.annotation-api | +- org.springframework:spring-core | | \- org.springframework:spring-jcl | \- org.yaml:snakeyaml

==========separator========== +- org.springframework:spring-aop | \- org.springframework:spring-beans

==========separator========== \- org.aspectj:aspectjweaver

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org.springframework.boot:spring-boot-starter org.springframework.boot:spring-boot org.springframework.boot:spring-boot-autoconfigure org.springframework.boot:spring-boot-starter-logging org.springframework:spring-aop org.springframework:spring-beans org.springframework:spring-core org.springframework:spring-core

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ch.qos.logback:logback-classic ch.qos.logback:logback-core

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TestNG v6.8 Java Inject v3.0 SpringBatch API v2

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