

License Guide  
Oracle FLEXCUBE Universal Banking  
Release 14.0.0.7.1  
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Oracle Financial Services Software Limited  
Oracle Park  
Off Western Express Highway  
Goregaon (East)  
Mumbai, Maharashtra 400 063  
India

Worldwide Inquiries:  
Phone: +91 22 6718 3000  
Fax: +91 22 6718 3001  
<https://www.oracle.com/industries/financial-services/index.html>

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# 1. Preface

## 1.1 Introduction

This document helps you understand the guiding rules for Oracle FLEXCUBE Universal Banking 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.

## 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/lookup?ctx=acc&id=docacc>.

## 1.4 Organization

This manual is organized into the following chapters:

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

## 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 Licensing

### 2.1 Introduction

This chapter provides information on Oracle FLEXCUBE Universal Banking 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

Oracle FLEXCUBE Universal Banking has 14 modules that can be licensed by either account metric or by application user metric.

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	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 Payments and Collections	
3	Oracle FLEXCUBE Universal Banking Standing Instructions	
4	Oracle FLEXCUBE Universal Banking Collections	
5	Oracle FLEXCUBE Universal Banking Loans*	
6	Oracle FLEXCUBE Universal Banking Account Origination	
7	Oracle FLEXCUBE Universal Banking Retail Loan Origination	

<sup>1</sup> Oracle FLEXCUBE Universal Banking Loans module is available as (i) Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans, licensable by the Account metric, in the Enterprise Price List; and as (ii) Oracle FLEXCUBE Universal Banking Commercial Loans, licensable by the Application User metric, in the Component Price List.

Sl. No.	Module Description	Licensing Rule(s)
<b>Corporate Modules</b>		
8	Oracle FLEXCUBE Universal Banking Funds Transfer	If the customer is using Universal Banking for Corporate programs, these applications may only be licensed by the Application User. However, if the customer is using Universal Banking for Retail, and is not using Universal Banking for Corporate, then a customer may license these programs under the Account metric.
9	Oracle FLEXCUBE Electronic Messaging Service	
10	Oracle FLEXCUBE Universal Banking Nostro Reconciliation	
11	Oracle FLEXCUBE Universal Banking Cash Management	
12	Oracle FLEXCUBE Universal Banking Commercial Leasing	
13	Oracle FLEXCUBE Integration Gateway	
14	Oracle FLEXCUBE Universal Banking Commercial Loans Origination	

## 2.3 Components Included in License

The following components are included in the Oracle FLEXCUBE Universal Banking license:

1. **Signature Verification:** is included with Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts license.
2. **Utility Payments:** is included with Oracle FLEXCUBE Universal Banking Branch license.
3. **Islamic Banking Support:** The following Oracle FLEXCUBE Universal Banking module licenses have support for Islamic Banking.
  - Oracle FLEXCUBE Universal Banking Base
  - Oracle FLEXCUBE Universal Banking Asset Management
  - Oracle FLEXCUBE Universal Banking Bills and Collection
  - Oracle FLEXCUBE Universal Banking Cash Management
  - Oracle FLEXCUBE Universal Banking Collections
  - Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts
  - Oracle FLEXCUBE Universal Banking Fixed Assets
  - Oracle FLEXCUBE Universal Banking Letters of Credit
  - Oracle FLEXCUBE Universal Banking Money Markets
  - Oracle FLEXCUBE Universal Banking Relationship Pricing
  - Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans

- Oracle FLEXCUBE Universal Banking Retail Loan Origination
- Oracle FLEXCUBE Universal Banking Swaps and Forward Rate Agreements
- Oracle FLEXCUBE Universal Banking Term Deposits

## 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.*

<b>Module Description</b>	<b>Separately Licensed Prerequisites</b>	<b>Licensing Metric(s)</b>
Oracle FLEXCUBE Universal Banking Base	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Development Workbench</li> <li>• Oracle FLEXCUBE Integration Gateway</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> <li>• Financial Inclusion Account</li> </ul>
Oracle FLEXCUBE Universal Banking Process Framework Base	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Development Workbench</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> <li>• Financial Inclusion Account</li> </ul>
Oracle FLEXCUBE Universal Banking Relationship Pricing	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> <li>• Either Oracle FLEXCUBE Universal Banking Current Accounts &amp; Savings Accounts OR Oracle FLEXCUBE Universal Banking Term Deposits</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Term Deposits	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>

Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Payments and Collections	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Funds Transfer	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Nostro Reconciliation	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Standing Instructions	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Cash Management	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Branch	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> <li>• Financial Inclusion Account</li> </ul>
Oracle FLEXCUBE Universal Banking ATM Interface	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> <li>• Financial Inclusion Account</li> </ul>
Oracle FLEXCUBE Universal Banking Point of Sale Interface	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Interactive Voice Response Interface	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Mortgages	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>



Oracle FLEXCUBE Universal Banking Consumer Leasing	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Commercial Leasing	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Inventory Management	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> <li>• Oracle FLEXCUBE Universal Banking Current Accounts &amp; Savings Accounts</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Collections	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Microfinance	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> <li>• Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Safe Deposit Box	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Corporate Deposits	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Commercial Loans	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Loan Syndication	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Bills & Collection	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Letters of Credit	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>

Oracle FLEXCUBE Universal Banking Foreign Exchange	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Money Markets	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Swaps and Forward Rate Agreements	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Commodities Futures and Options	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Currency Futures and Options	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Equity and Index Futures and	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Interest Rate Futures and Options	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Over the Counter Currency	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Over the Counter Interest Rate Options	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Securities	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Fixed Assets	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>

<p>Oracle FLEXCUBE Universal Banking Asset Management</p>	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base and EITHER of the below modules: <ul style="list-style-type: none"> <li>➤ Oracle FLEXCUBE Universal Banking Securities</li> <li>➤ Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Interest Rate Futures and Options,</li> <li>➤ Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Currency Futures and Options</li> <li>➤ Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Equity and Index Futures and Options</li> <li>➤ Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Commodities Futures and Options</li> <li>➤ Oracle FLEXCUBE Universal Banking Over the Counter Currency Options</li> <li>➤ Oracle FLEXCUBE Universal Banking Over the Counter Interest Rate Options</li> <li>➤ Oracle FLEXCUBE Universal Banking Swaps and Forward Rate Agreements</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
<p>Oracle FLEXCUBE Universal Banking Expense Processing</p>	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>

<b>Oracle FLEXCUBE Universal Banking Origination</b>		
Oracle FLEXCUBE Universal Banking Account Origination	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Term Deposits Origination	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Letters of Credit Origination	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>
Oracle FLEXCUBE Universal Banking Retail Loan Origination	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
Oracle FLEXCUBE Universal Banking Commercial Loans Origination	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
<b>Oracle FLEXCUBE Open Development Tools</b>		
Oracle FLEXCUBE Development Workbench	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> </ul>
Oracle FLEXCUBE Testing Workbench for Universal Banking	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> </ul>
<b>Oracle FLEXCUBE Interfaces and Tools</b>		
Oracle FLEXCUBE Integration Gateway	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> <li>• Processor</li> <li>• Financial Inclusion Account</li> </ul>
Oracle FLEXCUBE Universal Banking Connector for Oracle Identity Manager	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Connector</li> </ul>

Oracle FLEXCUBE Electronic Messaging Service	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> <li>• Account</li> </ul>
<b>Oracle FLEXCUBE Information Server</b>		
Oracle FLEXCUBE Information Server Base for Universal	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Universal Banking Base</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Information Server Retail Liabilities Data Mart for Universal Banking	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Information Server Base for Universal Banking</li> <li>• Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts</li> <li>• Oracle FLEXCUBE Universal Banking Term Deposits</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>
Oracle FLEXCUBE Information Server Retail Assets Data Mart for Universal Banking	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Information Server Base for Universal Banking</li> <li>• Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts</li> <li>• Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprises Loans</li> </ul>	<ul style="list-style-type: none"> <li>• Account</li> </ul>

## 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	<ul style="list-style-type: none"> <li>• Customer creation along with account creation is done in a single go without the option of Signature capture and verification.</li> <li>• These customers will not have the Limits linkage</li> <li>• Only Individual type of customers alone can be created. (Corporate/ Bank kind of customers cannot be created)</li> </ul>

<p>Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts</p>	<ul style="list-style-type: none"> <li>• System will allow the FI customer to open only a Single Holder savings CASA account and in branch currency only</li> <li>• Temporary OD on FI customer's CASA accounts is allowed for a short term without attaching any collateral or credit line backing.</li> <li>• 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.</li> <li>• Check book and Debit card features are not available for FI customer accounts.</li> <li>• The account cannot be salary account</li> </ul>
<p>Oracle FLEXCUBE Universal Banking Branch</p>	<ul style="list-style-type: none"> <li>• Allow only the below Branch transactions for a FI customer,</li> <li>• Cash Deposit</li> <li>• Cash Withdrawal</li> <li>• Transfers</li> <li>• Utility payment without external Utility Provider interface</li> </ul>
<p>Oracle FLEXCUBE Universal Banking ATM Interface</p>	<p>No restrictions brought in. Will be contractual restriction.</p>
<p>Oracle FLEXCUBE Integration Gateway</p>	<p>No restrictions brought in. Will be contractual restriction.</p>

## 3. Software Prerequisites

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

### 3.1 Software Prerequisites

#### 3.1.1 Tech Stack – Oracle

Component	Deployment option	Machine	Operating System	Software	Version Number
Oracle FLEXCUBE Universal Banking	UI-Host and Centralized	Application Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.4.0
				Java HotSpot (TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 241
				Open Symphony Quartz	2.3.2
				Oracle Platform Security Services	12.2.1.4.0
				Oracle Toplink	12.2.1.4.0
		Document Management System		Oracle WebLogic	12.2.1.4.0
				JDK	JDK 1.8 Update 241
				Oracle Database (for RCU)	19.6.0.0.0
				Repository Creation Utility	12.1.1.4.0
				Oracle WebCenter Content Imaging	12.2.1.4.0
	Database Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.6.0.0.0	

	Reporting Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle WebLogic	12.2.1.4.0
			JDK	JDK 1.8 Update 241
			Oracle Database (for RCU)	19.6.0.0.0
			Repository Creation Utility	12.2.1.4.0
			Oracle BI Publisher	5.5.0
	FLEXCUBE Information Server – Analytics	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle WebLogic	12.2.1.4.0
			JDK	JDK 1.8 Update 241
			Oracle Database (for RCU)	12.1.0.2.0
			Repository Creation Utility	12.2.1.4.0
			Oracle Business Intelligence Enterprise Edition (OBIEE)	5.5.0
	FLEXCUBE Information Server - Data warehouse	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle Golden Gate	19.1.0.0.4
			Oracle Database (for RCU)	19.6.0.0.0
			Repository Creation Utility	12.2.1.4.0
			Oracle Data integrator	12.2.1.4.0
			Oracle Data integrator Java EE Agent	12.2.1.4.0
Oracle WebLogic Server Infrastructure			12.2.1.4.0	



	#Client Machines	Windows 10	Internet Explorer	Internet Explorer (11+)	
			Mozilla Firefox	Mozilla Firefox Release (66+)	
			Google Chrome	Google Chrome Release (73+)	
			Microsoft Edge	Microsoft Edge 44+	
		Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (62+)	
			Safari	Safari 12+	
			Google Chrome	Google Chrome Release (73+)	
		Single Sign On Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	JDK	JDK 1.8 Update 241
				Oracle WebLogic	12.2.1.4.0
				Repository Creation Utility	12.2.1.4.0
	Oracle Identity Management			12.2.1.4.0	
	Oracle SOA			12.2.1.4.0	
	Oracle Identity And Access Management			12.2.1.4.0	
	Oracle Webtier Utilities			12.2.1.4.0	
	Oracle Webgate			12.2.1.4.0	
OID Connector	OID 11.1.1.6.0				
		JDK	1.8 Update 241		

	UI Decentralized branch	Branch Application Server – Decentralized	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.4.0
		Database Branch for Decentralized mode		Oracle RDBMS Standard Edition (SE2)	19.6.0.0.0
Oracle FLEXCUBE Universal Banking BPEL/BPM N Processes and Process Framework	UI-Host and Centralized	Application Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	JDK	1.8 Update 241
				Oracle WebLogic Server	12.2.1.4.0
				Oracle Database (for RCU)	19.6.0.0.0
				Repository Creation Utility	12.2.1.4.0
				Oracle SOA Suite, Oracle BPM Suite	12.2.1.4.0
Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.4.0
	HTTP Servlet (incoming)				
	EJB (incoming)				
	MDB (incoming)				
	Notifications (outgoing)				
Oracle FLEXCUBE Universal Banking Switch Integration Gateway	Switch Integration Gateway	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	JDK	1.8 Update 241

Oracle FLEXCUBE Universal Banking ReST	Web services	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	JDK	1.8 Update 241
				Oracle WebLogic Server	12.2.1.4.0
				Oracle Toplink	12.2.1.4.0

**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.

### 3.1.2 Tech Stack – IBM

Component	Deployment option	Machine	Operating System	Software	Version Number
Oracle FLEXCUBE Universal Banking	UI-Host and Centralized	Application Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
				IBM WebSphere MQ Server	9.0.0.0
				Oracle Toplink	12.2.1.4.0
				Open Symphony Quartz	2.3.2
				Oracle WebCenter Content: Imaging	11.1.1.9.0
		Database Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.6.0.0.0
#Client Machines	Windows 10	Internet Explorer	Microsoft Edge 11 +		

				Mozilla Firefox	Mozilla Firefox Release (66+)	
				Google Chrome	Google Chrome 1 Release (73+)	
				Microsoft Edge	42+	
				Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (62+)
				Safari	Safari 12+	
				Google Chrome	Google Chrome Release(73+)	
Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0	
	HTTP Servlet (incoming)	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0	
	EJB (incoming)	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0	
	MDB (incoming)	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0	
				IBM WebSphere MQ Server	9.0.0.0	

	Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
				IBM WebSphere MQ Server	9.0.0.0
Oracle FLEXCUBE Universal Banking	Switch Integration Gateway	Integration Server		JDK	IBM JDK 1.8_241
Oracle FLEXCUBE Universal Banking ReST	Web services	Integration Server	Oracle Enterprise Linux Server 7.6 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
				Oracle Toplink	12.2.1.4.0

**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	12.2.1.2.0	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)	JDK 1.8 Update 144	Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic.
Open Symphony Quartz	2.2.3	Standard requirement
Oracle Toplink	12.2.1.2.0	Optional - Required only if limits tracking is required.

<b>Product Name</b>	<b>Product Version</b>	<b>Requirements</b>
Oracle WebCenter Content Imaging	11.1.1.9.0	Optional - Required only if Document Management System integration is required. Refer to section 3.1.1 for other related software (Document Management System).
Oracle RDBMS Enterprise Edition	12.2.0.1.0	Standard requirement
Oracle BI Publisher	12.2.1.2.0	Standard requirement. Refer to section 3.1.1 for dependent software (Reporting Server).
Oracle Business Intelligence Enterprise Edition (OBIEE)	12.2.1.2.0	Optional - Required only if Oracle FLEXCUBE Information Server is installed or if metadata repository based Adhoc reporting is needed. Refer to section 3.1.1 for dependent software (FLEXCUBE Information Server -Analytics).
Oracle Golden Gate	12.2.0.1.0	Optional - Required only if Oracle FLEXCUBE Information Server is installed. Refer to section 3.1.1 for dependent software (FLEXCUBE Information Server -Data warehouse).
Oracle Data integrator	12.2.1.2.0	Optional - Required only if Oracle FLEXCUBE Information Server is installed. Refer to section 3.1.1 for dependent software (FLEXCUBE Information Server -Data warehouse).
Oracle Identity Management (OID)	11.1.1.9.0	Optional - Required if Single Sign On is required. Refer to section 3.1.1 for dependent software (Single Sign On Server).
Oracle Identity And Access Management	11.1.2.3.0	Optional - Required if Single Sign On is required. Refer to section 3.1.1 for dependent software (Single Sign On Server).
Oracle RDBMS Standard Edition (SE2)	12.2.0.1.0	Optional - Required if decentralized branch support is required. Refer to section 3.1.1 for related software (Decentralized branch).
Oracle SOA Suite	12.2.1.2.0	Optional - Required for Oracle FLEXCUBE Universal Banking Origination. Refer to section 3.1.1 for related software (BPEL/BPMN Processes and Process Framework).

Product Name	Product Version	Requirements
Oracle BPM Suite	12.2.1.2.0	Optional - Required for Oracle FLEXCUBE Universal Banking Origination. Refer to section 3.1.1 for related software (BPEL/BPMN Processes and Process Framework).
IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64).	9.0.0.0	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway supports both Weblogic and Websphere.
IBM WebSphere MQ Server	9.0.0.0.0	Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebSphere

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### 4.1 Introduction

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- Apache License 2.0
- MIT License
- BSD-Style License
- Third Party Libraries
- Other - Java Transaction API

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

Bouncy Castle library (bcprov-\*.jar, bcpng-\*.jar, bcpkix-\*.jar)

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JUnit test library (junit-4.\*.jar) & JaCoCo (\*jacoco\*)

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- Apache 2.0
- MIT License
- BSD-Style License
- OpenSymphony
- Other

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- Apache Commons Codec -1.13.jar
- poi-4.1.1.jar
- commons-collections-44.jar
- commons-io-2.7.jar
- Commons-Lang-3.9.jar
- commons-net- 3.7.jar
- log4j\_ 2.12.1.jar
- Ant 1.10.7.jar
- commons-logging- 1.2.1.jar
- Quartz 2.3.2.jar
- Slf4j 1.7.29
- Swagger 1.6.0
- SnakeYAML 1.25
- Zipler 2.4.1
- Quartz Enterprise Job Scheduler 2.3.2
- jackson-annotations 2.10.1
- jackson-core 2.10.1

- jackson-databind 2.10.1
- jackson-dataformat-yaml 2.10.1
- Mina SSHD 2.3.0

#### 4.6.2 **MIT License**

The below libraries includes software developed by SLF4J (<http://www.slf4j.org/>).

SLF4J 1.7.25.jar *For license information, See “MIT License”*

- Simple Logging Façade for Java (slf4j-api-1.7.25.jar)
- Simple Logging Façade for Java (slf4j-log4j12-1.7.25.jar)

The below library include software developed by jsoup.org

- jsoup 1.10.3.jar

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- dom4j-2.0.1.jar

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- yuicompressor-2.4.8.jar

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- Java Transaction API (jta\_1.1.jar)

#### 4.6.5 **Google**

- Closure Compiler 1.0