

License Guide  
Oracle FLEXCUBE Universal Banking  
Release 12.2.0.0.2  
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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  
[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

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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 would get licensed based on the usage of the bank.

SI. 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 pro- grams, 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 Universal Banking 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 Universal Banking 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 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.*

Module Description	Separately Licensed Prerequisites	Licensing Metric(s)
Oracle FLEXCUBE Universal Banking Base	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Development Workbench for Universal Banking</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 Process Framework Base	<ul style="list-style-type: none"> <li>• Oracle FLEXCUBE Development Workbench for Universal Banking</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> </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>

<b>Module Description</b>	<b>Separately Licensed Prerequisites</b>	<b>Licensing Metric(s)</b>
Oracle FLEXCUBE Universal Banking 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>
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> </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> </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>



<b>Module Description</b>	<b>Separately Licensed Prerequisites</b>	<b>Licensing Metric(s)</b>
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>

<b>Module Description</b>	<b>Separately Licensed Prerequisites</b>	<b>Licensing Metric(s)</b>
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 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 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 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 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>

Module Description	Separately Licensed Prerequisites	Licensing Metric(s)
<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> <li>➤ Oracle FLEXCUBE Universal Banking Exchange Traded Derivatives for Interest Rate Futures</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Application User</li> <li>• Custom Suite User</li> </ul>

<b>Module Description</b>	<b>Separately Licensed Prerequisites</b>	<b>Licensing Metric(s)</b>
Oracle FLEXCUBE Universal Banking Expense Processing	<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 Credit Lines 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 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 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>
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 Universal Banking 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> </ul>

<b>Module Description</b>	<b>Separately Licensed Prerequisites</b>	<b>Licensing Metric(s)</b>
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>
<b>Oracle FLEXCUBE Information Server</b>		
Oracle FLEXCUBE Information Server Base for Universal Banking	<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**

Not applicable for the FLEXCUBE Universal Banking Products.

## 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
	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 Toplink	12.2.1.4.0
		Document Management System	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 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	Oracle WebLogic	12.2.1.4.0
				JDK	JDK 1.8 Update 241

Component	Deployment option	Machine	Operating System	Software	Version
			(x86 64 Bit)	Oracle Database (for RCU)	12.1.0.1.0
				Repository Creation Utility	12.2.1.3.0
				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)	19.6.0.0.0
				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 +)

Component	Deployment option	Machine	Operating System	Software	Version		
				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				
UI Decentralized	Branch Application	Oracle Enterprise	JDK	1.8 Update 241			



Component	Deployment option	Machine	Operating System	Software	Version
	branch	Server - Decentralized	Linux Server 7.6 (x86 64 Bit)	Apache Tomcat	8.0.32
		Database Branch for Decentralized mode		Oracle RDBMS Standard Edition (SE2)	19.6.0.0.0
Oracle FLEXCUBE Universal Banking BPEL/BPMN 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 Repository Creation Utility (RCU) - To create SOA related schemas for BPEL	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 RESTful	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

Component	Deployment option	Machine	Operating System	Software	Version
services				Oracle Toplink	12.2.1.4.0

**Note**

Apache-maven-3.3.9 is used for RESTful services building and packaging, for more details please refer RESTful Services Installation Documents.

**3.1.2 Tech Stack – IBM**

Component	Deployment option	Machine	Operating System	Software	Version
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
				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	12.1.0.2.0
		Client Machines	Windows 10	Internet Explorer	Microsoft Edge (11+)
				Mozilla Firefox	Mozilla Firefox

Component	Deployment option	Machine	Operating System	Software	Version
					Release(56+)
				Google Chrome	Google Chrome Release(73+)
			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 7.6 (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 6.6 (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

Component	Deployment option	Machine	Operating System	Software	Version
Oracle FLEXCUBE Universal Banking RESTful Services	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

Apache-maven-3.3.9 is used for RESTful services building and packaging , for more details please refer RESTful Services Installation Documents.

## 3.2 Module-wise Software Prerequisites

Product Name	Product Version	Requirements
Oracle Fusion Middleware Infrastructure	12.2.1.0.0	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway supports both WebLogic and WebSphere.
Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 77	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic.
Open Symphony Quartz	2.2.2	Standard Requirement
Oracle Toplink	12.2.1.0.0	Optional - Required only if limits tracking is required.
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	12.1.0.2.0	Standard Requirement
Oracle BI Publisher	11.1.1.9.0	Standard requirement. Refer to section 3.1.1 for dependent software (Reporting Server).

Oracle Business Intelligence Enterprise Edition (OBIEE)	11.1.1.9.0	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 -Datawarehouse).
Oracle Data integrator	12.2.1.0.0	Optional - Required only if Oracle FLEXCUBE Information Server is installed. Refer to section 3.1.1 for dependent software (FLEXCUBE Information Server -Datawarehouse).
Oracle Identity Management	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)	12.1.0.2.0	Optional - Required if decentralised branch support is required. Refer to section 3.1.1 for related software (Decentralized branch).
Oracle SOA Suite, Oracle BPM Suite	12.2.1.0.0	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)	8.5.5.9	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway support both WebLogic and WebSphere
IBM WebSphere MQ Server	8.0.0.2	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebSphere

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- commons-transaction-1.2.jar
- jettison.jar
- poi-3.13.jar
- Quartz Job Scheduler 2.2.2.jar
- serializer-2.7.1.jar
- xalan-2.7.2.jar
- Apache Commons Codec1.10.jar
- commons-io-2.4.jar
- xercesImpl-2.11.0.jar
- xml-apis-1.4.01.jar
- log4j1.2.17.jar
- xmlbeans-2.6.0.jar
- pjl-comp-filter-1.8.1
- Ant 1.9.6 (update to 1.9.4 TPNO 21446)

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- Simple Logging Façade for Java (SLF4J)-1.7.7.jar
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- dom4j-1.6.1.jar

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- yuicompressor-2.4.8.jar

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`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`

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