

License Guide
Oracle FLEXCUBE Universal Banking
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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 Standing Instructions	
3	Oracle FLEXCUBE Universal Banking Collections	
4	Oracle FLEXCUBE Universal Banking Loans*	
5	Oracle FLEXCUBE Universal Banking Account Origination	
6	Oracle FLEXCUBE Universal Banking Retail Loan Origination	

¹ 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)
Corporate Modules		
7	Oracle FLEXCUBE Universal Banking Nostro Reconciliation	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.
8	Oracle FLEXCUBE Universal Banking Cash Management	
9	Oracle FLEXCUBE Universal Banking Commercial Leasing	
10	Oracle FLEXCUBE Integration Gateway	
11	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.

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

Oracle FLEXCUBE Universal Banking Nostro Reconciliation	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Standing Instructions	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Cash Management	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Branch	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking ATM Interface	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Point of Sale Interface	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Universal Banking Interactive Voice Response Interface	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Universal Banking Mortgages	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Universal Banking Consumer Leasing	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Universal Banking Commercial Leasing	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Inventory Management	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base • Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts 	<ul style="list-style-type: none"> • Account

Oracle FLEXCUBE Universal Banking Collections	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Microfinance	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base • Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Universal Banking Safe Deposit Box	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Universal Banking Corporate Deposits	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Commercial Loans	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Loan Syndication	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Bills & Collection	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Letters of Credit	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Foreign Exchange	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Money Markets	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Swaps and Forward Rate Agreements	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Application User • Custom Suite User

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

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

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

Oracle FLEXCUBE Information Server Base for Universal Banking	<ul style="list-style-type: none"> • Oracle FLEXCUBE Universal Banking Base 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Information Server Retail Liabilities Data Mart for Universal Banking	<ul style="list-style-type: none"> • Oracle FLEXCUBE Information Server Base for Universal Banking • Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts • Oracle FLEXCUBE Universal Banking Term Deposits 	<ul style="list-style-type: none"> • Account
Oracle FLEXCUBE Information Server Retail Assets Data Mart for Universal Banking	<ul style="list-style-type: none"> • Oracle FLEXCUBE Information Server Base for Universal Banking • Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts • Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprises Loans 	<ul style="list-style-type: none"> • Account

* When Component pricing model is used, Oracle FLEXCUBE Universal Banking Base program should be licensed for cumulative number of Application Users of Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Open Development Tools and Oracle FLEXCUBE Interfaces and Tools programs.

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

2.5 Restricted Use License

OPSS 12.2.1.3.0 has been packaged within our application under RUL 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"> • Customer creation along with account creation is done in a single go without the option of Signature capture and verification. • These customers will not have the Limits linkage • 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	<ul style="list-style-type: none"> • System will allow the FI customer to open only a Single Holder savings CASA account and in branch currency only • Temporary OD on FI customer's CASA accounts is allowed for a short term without attaching any collateral or credit line backing. • 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. • Check book and Debit card features are not available for FI customer accounts. • The account cannot be salary account
Oracle FLEXCUBE Universal Banking Branch	<ul style="list-style-type: none"> • Allow only the below Branch transactions for a FI customer, • Cash Deposit • Cash Withdrawal • Transfers • Utility payment without external Utility Provider interface
Oracle FLEXCUBE Universal Banking ATM Interface	No restrictions brought in. Will be contractual restriction.
Oracle FLEXCUBE Integration Gateway	No restrictions brought in. Will be contractual restriction.

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 7.1 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.3.0
				Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 202
				Open Symphony Quartz	2.3.0-d56e1d0
				Oracle Toplink	12.2.1.3.0
		Document Management System	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
				JDK	JDK 1.8 Update 202
				Oracle Database (for RCU)	18.3.0.0.0
				Repository Creation Utility	12.2.1.3.0
				Oracle WebCenter Content Imaging	12.2.1.3.0
		Database Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	18.3.0.0.0
		Reporting Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
				JDK	JDK 1.8 Update 202
				Oracle BI Publisher	12.2.1.4.0

		FLEXCUBE Information Server – Analytics	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
				JDK	JDK 1.8 Update 202
				Oracle Business Intelligence Enterprise Edition (OBIEE)	12.2.1.4.0
		FLEXCUBE Information Server - Data warehouse	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle Golden Gate	12.3.0.1.4
				Oracle Database (for RCU)	12.1.0.2.0
				Repository Creation Utility	12.2.1.3.0
				Oracle Data integrator	12.2.1.3.0
				Oracle Data integrator Java EE Agent	12.2.1.3.0
				Oracle Fusion Middleware Infrastructure	12.2.1.3.0
		Client Machines#	Windows 7	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
				Google Chrome	73.0.3683.103
			Windows 10	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
				Google Chrome	73.0.3683.103
				Microsoft Edge	42.17134.1.0
			Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (62+)
				Safari	Safari- 11.1 (13605.1.133.1.4)
		Google Chrome		Google Chrome Release (69+)	
		Single Sign	Oracle	JDK	JDK 1.8 Update

		On Server	Enterprise Linux Server 7.1 (x86 64 Bit)		202
				Oracle WebLogic	12.2.1.3.0
				Repository Creation Utility	12.2.1.3.0
				Oracle Identity Management	12.2.1.3.0
				Oracle SOA	12.2.1.3.0
				Oracle Identity And Access Management	12.2.1.3.0
				Oracle Web tier Utilities	12.2.1.3.0
				Oracle Web gate	12.2.1.3.0
				OID Connector	OID 11.1.1.6.0
				UI Decentralized branch	Branch Application Server – Decentralized
Oracle WebLogic Server	12.2.1.3.0				
Oracle RDBMS Standard Edition (SE2)	18.3.0.0.0				
Oracle FLEXCUBE Universal Banking BPEL/BPM N Processes and Process Framework	UI-Host and Centralized	Application Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	1.8 Update 202
				Oracle WebLogic Server	12.2.1.3.0
				Oracle Database (for RCU)	18.3.0.0.0
				Repository Creation Utility	12.2.1.3.0
				Oracle SOA Suite, Oracle BPM Suite	12.2.1.3.0
Oracle FLEXCUBE Universal Banking Integration	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.3.0
	HTTP Servlet (incoming)				

Gateway	EJB (incoming)				
	MDB (incoming)				
	Notifications (outgoing)				
Oracle FLEXCUBE Universal Banking Switch Integration Gateway	Switch Integration Gateway	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	1.8 Update 202
Oracle FLEXCUBE Universal Banking REST	Web services	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	1.8 Update 202
				Oracle WebLogic Server	12.2.1.3.0
				Oracle Toplink	12.2.1.3.0
Oracle FLEXCUBE Machine Learning	Manual Deployment	Machine Learning Server	Oracle Enterprise Linux server 7.1 (x86 64 bit)	Oracle R Enterprise	1.5.1

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.

3.1.2 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 7.1 (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
				Open Symphony Quartz	2.3.0-d56e1d0

Component	Deployment option	Machine	Operating System	Software	Version Number
		Database Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	18.3.0.0.0
		Client Machines#	Windows 7	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
				Google Chrome	73.0.3683.103
			Windows 10	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
				Google Chrome	73.0.3683.103
				Microsoft Edge	42.17134.1.0
			Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (62+)
				Safari	Safari- 11.1 (13605.1.133.1.4)
		Google Chrome		Google Chrome Release (69+)	
		Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)
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 7.1 (x86 64)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0

Component	Deployment option	Machine	Operating System	Software	Version Number
			Bit)		
	MDB (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
				IBM WebSphere MQ Server	9.0.0.0
	Notifications (outgoing)	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
				IBM WebSphere MQ Server	9.0.0.0
Oracle FLEXCUBE Universal Banking	Switch Integration Gateway	Integration Server		JDK	IBM JDK 1.8_202
Oracle FLEXCUBE Universal Banking REST	Web services	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
				Oracle Toplink	12.2.1.3.0

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	12.2.1.3.0	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway supports both Oracle Weblogic Server (Fusion Middleware) and WebSphere.

Product Name	Product Version	Requirements
Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 171	Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic.
Open Symphony Quartz	2.3.1-9f9e400	Standard requirement
Oracle Toplink	12.2.1.3.0	Optional - Required only if limits tracking is required.
Oracle WebCenter Content Imaging	12.2.1.3.0	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	12.2.1.4.0	Standard requirement. Refer to section 3.1.1 for dependent software (Reporting Server).
Oracle Business Intelligence Enterprise Edition (OBIEE)	12.2.1.4.0	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	12.2.1.3.0	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	12.2.1.3.0	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)	12.2.1.3.0	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	12.2.1.3.0	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).

Product Name	Product Version	Requirements
Oracle SOA Suite	12.2.1.3.0	Optional - Required for Oracle FLEXCUBE Universal Banking Origination. Refer to section 3.1.1 for related software (BPEL/BPMN Processes and Process Framework).
Oracle BPM Suite	12.2.1.3.0	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_151).	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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- BSD-Style License
- Third Party Libraries
- Other - Java Transaction API

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

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Modules:

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guava-gwt

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refactorings

util

4P Dependencies:

com.google.code.findbugs » jsr305 3.0.2

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- log4j_ 2.11.1-7333573.jar
- Ant 1.10.5-d7c5185.jar
- commons-logging- 1.2-0548efb.jar
- Quartz 2.3.0-d56e1d0.jar
- Swagger 1.5.21
- SnakeYAML 1.23
- Zipllet 2.3.0 (2.3.0-106216a)
- Quartz Enterprise Job Scheduler 2.3.0-d56e1d0
- jackson-annotations 2.9.8
- jackson-core 2.9.8
- jackson-databind 2.9.8
- jackson-dataformat-yaml 2.9.8

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- jsoup 1.11.3.jar
- Slf4j 1.7.26

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- yuicompressor- 2.4.8-958491d.jar

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- Jsch 0.1.55

4.8.5 Other

- Java Transaction API (jta_1.3.jar)
- Reflections 0.9.11- 084cf4a