License Guide – License Subscription
Oracle FLEXCUBE Universal Banking
Release 14.6.2.0.0
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# Contents

CONTENTS		
1. PI	REFACE	1-1
1.1	Introduction	1-1
1.2	AUDIENCE	1-1
1.3	DOCUMENTATION ACCESSIBILITY	
1.4	Organization	
1.5	RELATED DOCUMENTS	
2. O	RACLE FLEXCUBE UNIVERSAL BANKING LICENSING	2-1
2.1	Introduction	2-1
2.2	GENERAL LICENSING RULES	
2.3	COMPONENTS INCLUDED IN LICENSE	2-2
2.4	SEPARATELY LICENSED PRE-REQUISITE PRODUCTS AND LICENSING METRIC	
2.5	RESTRICTED USE LICENSE	
3. SC	OFTWARE PRE-REQUISITES	3-1
3.1	SOFTWARE PREREQUISITES	3-1
3	1.1 Tech Stack – Oracle	
3.2	Module-wise Software Prerequisites	
4. TI	HIRD PARTY LICENSES	4-1
4.1	Introduction	4-1

### 1. Preface

### 1.1 Introduction

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

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

### 1.2 Audience

This document is intended for the following audience:

- Customers
- Partners

### 1.3 <u>Documentation Accessibility</u>

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## 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	Oracle FLEXCUBE Universal Banking License Subscription Licensing provides information on Oracle FLEXCUBE Universal Banking License Subscription licensing.	
Chapter 3	Software Pre-requisites consists of the technology pre-requisites required for Oracle FLEXCUBE Universal Banking License Subscription.	
Chapter 4	Third Party Licenses provides information on licensing of third party software that are packaged with Oracle FLEXCUBE Universal Banking License Subscription.	

## 1.5 Related Documents

For more information, refer to the following documents:

- End user license agreement
- Oracle FLEXCUBE User Manuals



# 2. Oracle FLEXCUBE Universal Banking License Subscription Licensing

### 2.1 Introduction

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

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

### 2.2 **General Licensing Rules**

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

SI. No.	Module Description	Licensing Rule(s)
Retai	l Modules	
1	Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription	If the customer is using Universal Banking for Retail programs, these applications may only be licensed by the Account
2	Oracle FLEXCUBE Universal Banking Standing Instructions License Subscription	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.



SI. No.	Module Description	Licensing Rule(s)
Corp	orate Modules	
3	Oracle FLEXCUBE Universal Banking Nostro Reconciliation License Subscription	If the customer is using Universal Banking for Corporate programs, these applications may only be licensed by the Application
4	Oracle FLEXCUBE Universal Banking Commercial Leasing License Subscription	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
5	Oracle FLEXCUBE Integration Gateway License Subscription	programs under the Account metric.

### 2.3 Components Included in License

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

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

# 2.4 <u>Separately Licensed Pre-requisite Products and Licensing Metric</u>

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



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

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



	T	
Oracle FLEXCUBE Universal Banking ATM Interface License Subscription	Oracle FLEXCUBE Universal     Banking Base License     Subscription	1K Accounts     10K Financial     Inclusion Accounts
Oracle FLEXCUBE Universal Banking Point of Sale Interface License Subscription	<ul> <li>Oracle FLEXCUBE Universal Banking Base License Subscription</li> </ul>	1K Accounts     10K Financial     Inclusion Accounts
Oracle FLEXCUBE Universal Banking Interactive Voice Response Interface License Subscription	<ul> <li>Oracle FLEXCUBE Universal Banking Base License Subscription</li> </ul>	1K Accounts
Oracle FLEXCUBE Universal Banking Mortgages License Subscription	<ul> <li>Oracle FLEXCUBEUniversal Banking Base License Subscription</li> </ul>	1K Accounts
Oracle FLEXCUBE Universal Banking Consumer Leasing License Subscription	<ul> <li>Oracle FLEXCUBEUniversal Banking Base License Subscription</li> </ul>	1K Accounts
Oracle FLEXCUBE Universal Banking Commercial Leasing License Subscription	<ul> <li>Oracle FLEXCUBEUniversal Banking Base License Subscription</li> </ul>	<ul><li>Application User</li><li>1K Accounts</li></ul>
Oracle FLEXCUBE Universal Banking Inventory Management License Subscription	<ul> <li>Oracle FLEXCUBEUniversal Banking Base License Subscription</li> <li>Oracle FLEXCUBEUniversal Banking Current Accounts &amp; Savings Accounts License</li> </ul>	1K Accounts
Oracle FLEXCUBE Universal Banking Microfinance License Subscription	Subscription  Oracle FLEXCUBE Universal Banking Base License Subscription Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans License Subscription	1K Accounts
Oracle FLEXCUBE Universal Banking Safe Deposit Box License Subscription	Oracle FLEXCUBEUniversal     Banking Base License     Subscription	1K Accounts
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Oracle FLEXCUBE Ope	n Development Tools	
Oracle FLEXCUBE Development Workbench License Subscription	Either of Oracle FLEXCUBE     Universal Banking Base or     Oracle Banking Enterprise     Limits Management, Oracle     Banking Collateral Management     or Oracle Banking Corporate     Lending, Oracle Banking     Payments, Oracle Banking     Trade Finance or Oracle     Banking Treasury Management	Application User
Oracle FLEXCUBE Inte	rfaces and Tools	
Oracle FLEXCUBE Integration Gateway License Subscription	Either of Oracle FLEXCUBE     Universal Banking Base or     Oracle Banking Enterprise     Limits Management, Oracle     Banking Collateral     Management or Oracle Banking     Corporate Lending, Oracle     Banking Payments, Oracle     Banking Trade Finance or     Oracle Banking Treasury     Management	<ul> <li>10K API Calls</li> <li>1K Accounts Processor</li> <li>10K Financial Inclusion Account</li> </ul>



\* 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.

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

When licensing Oracle FLEXCUBE Universal Banking modules by Custom Suite User metric, quantity of CAS users licensed for each Oracle FLEXCUBE Universal Banking module including Base must be the same.

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

### 2.5 Restricted Use License

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

Product or Component	Restrictions/Features Omitted
Oracle FLEXCUBE Universal Banking Base License Subscription	Customer creation along with account creation is done in a single go without the option of Signature capture and verification.
	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 License Subscription	System will allow the FI customer to open only a Single Holder savings CASA account and in branch currency only
	<ul> <li>Temporary OD on FI customer's CASA accounts is allowed for a short term without attaching any collateral or credit linebacking.</li> </ul>
	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.
	<ul> <li>Check book and Debit card features are not available for FI customer accounts.</li> </ul>
	The account cannot be salary account



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



# 3. Environment Details

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

# 3.1 <u>Software Prerequisites</u>

### 3.1.1 <u>Tech Stack – Oracle</u>

Component	Deployment option	Machine	Operating System	Software	Version Number
		Application Server	Oracle Enterprise Linux Server 8.3 (x86 64	Java HotSpot(TM) JDK (with WebLogic Application Server)	1.8 Update 321
			Bit)	Open Symphony Quartz	2.3.2
				Oracle WebLogic Server	14.1.1.0.0
		Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.14.0.0.0
Oracle FLEXCUBE	UI-Host and Centralized	Client Systems	Windows 10	Mozilla Firefox	91+
Universal				Google Chrome	100+
Banking				Microsoft Edge	99+
			Mac OS V	Mozilla Firefox	Mozilla Firefox for Mac (91+)
			Mac OS X	Safari	15+
				Google Chrome	100+



	T	T	1	T	1	
	CUBE (Incoming) rsal EJB I					
Oracle FLEXCUBE						
Universal Banking		Integration Server		Linux Server 8.3	Linux Server 8.3	Oracle WebLogic Server
Integration Gateway	MDB (incoming)					
	Notifications (outgoing)					
Oracle FLEXCUBE Universal Banking	Switch Integration	Integration Server	Oracle Enterprise Linux Server 8.3	JDK	1.8 Update 321	
Switch Integration Gateway	ntegration		(x86 64 Bit)		321	
Oracle FLEXCUBE Universal	Web services Integration Server	Integration Server	ntegration Linux Server 8.3 (x86 64	JDK	1.8 Update 321	
Banking REST				Oracle WebLogic Server	14.1.1.0.0	
INCOT			Bit)	Oracle Toplink	14.1.1.0.0	
Oracle FLEXCUBE Machine Learning	Centralized	Machine Learning Server	Oracle Enterprise Linux server 8.3 (x86 64 bit)	OML4R (Previously Oracle R Enterprise)	1.5.1	
Oracle FLEXCUBE Oracle Digital Assistant Integration	Centralized	Application Server	Oracle Enterprise Linux server 8.3 (x86 64 bit)	oda-native-client-sdk-js	20.3.1	



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

# 3.2 <u>Module-wise Software Prerequisites</u>

Product Name	Product Version	Requirements
Oracle Fusion Middleware Infrastructure	12.2.1.4.0	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway supports both Oracle Weblogic Server (Fusion Middleware) and WebSphere.
Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 321	Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic.
Open Symphony Quartz	2.3.2	Standard requirement
Oracle Toplink	14.1.1.0.0	Optional - Required only if limits tracking is required.
Oracle RDBMS Enterprise Edition	19.14.0.0.0	Standard requirement



## 4. Third Party Licenses

### 4.1 Introduction

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

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

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  4-146

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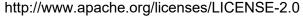
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4-146

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Copyright © 2019 FasterXML. All rights reserved. Here are people who have contributed to the development of Jackson JSON processor JDK8 datatype component, version 2.x (version numbers in brackets indicate release in which the problem was fixed)

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

Henning Schmiedehausen (hgschmie@github)

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

Jerome Loisel (jloisel@github)

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

Peter Royal (osi@github)

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

contributed fix fo #26: `@JsonUnwrapped` on Optional value does not propagate prefix to schema (2.6.4)

Nick Cronin (Quintok@github)

\* Reported #21: Manifest file missing OSGi import for `com.fasterxml.jackson.databind.introspect` (2.6.4)

James Lorenzen (jlorenzen@github)

\* Requested #18: Allow use of `@JsonInclude(content=Include.NON\_EMPTY)` with `Optional<>` (2.7.0)

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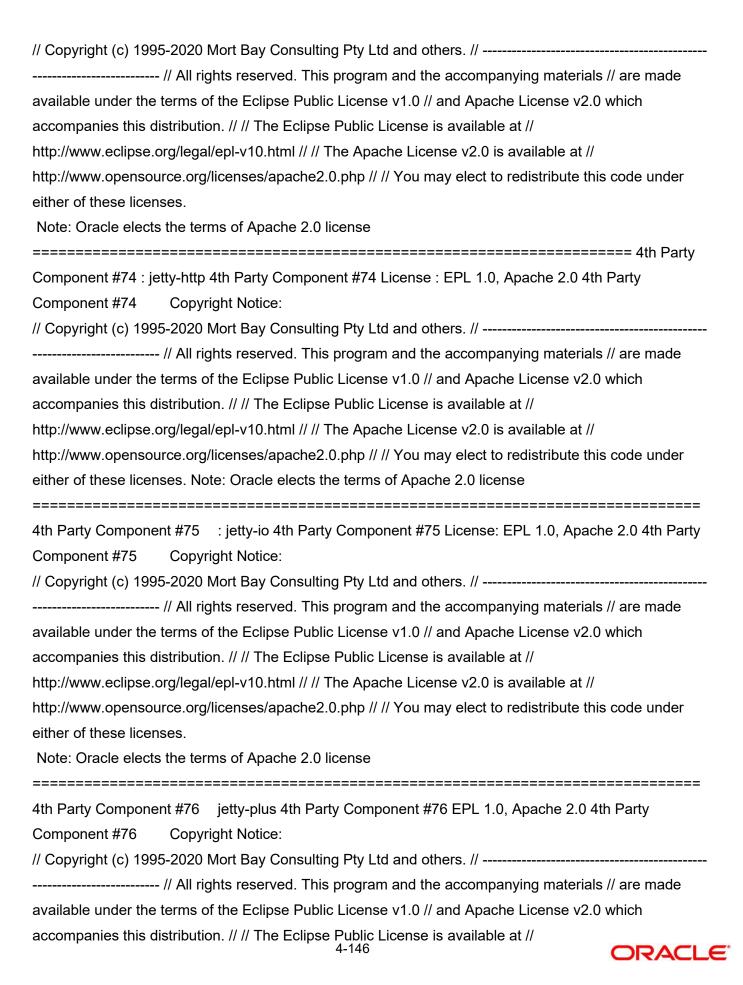
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The following artifacts are EPL and ASL2. \* org.eclipse.jetty.orbit:javax.security.auth.message

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api \* javax.annotation:javax.annotation-api \*

javax.transaction:javax.transaction-api \* javax.websocket:javax.websocket-api

----- Oracle OpenJDK

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

\* java.sun.security.ssl

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

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

----- OW2

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

---- Apache

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org.apache.taglibs:taglibs-standard-spec org.apache.taglibs:taglibs-standard-impl

----- MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp org.apache.tomcat:tomcat-jasper org.apache.tomcat:tomcat-juli org.apache.tomcat:tomcat-jsp-api org.apache.tomcat:tomcat-el-api org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-api org.apache.tomcat:tomcat-util-scan org.apache.tomcat:tomcat-util org.mortbay.jasper:apache-el org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

----- Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple 4-146 ORACLE



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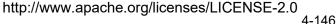
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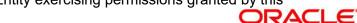
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/3

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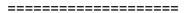
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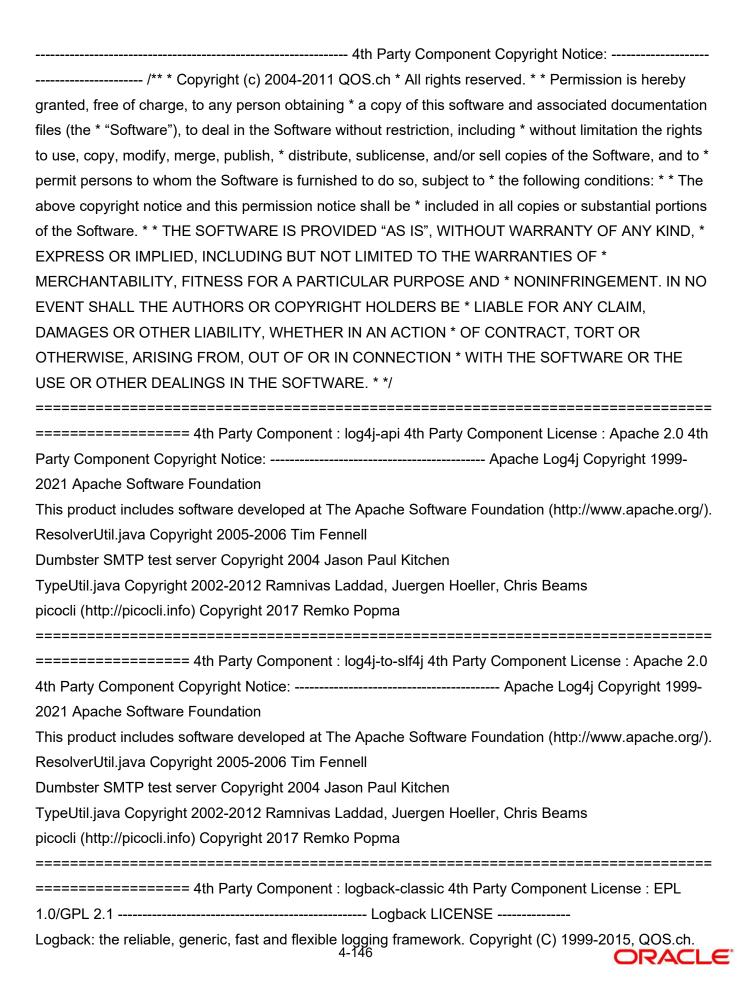
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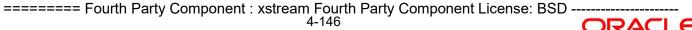
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Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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4-146

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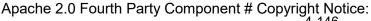
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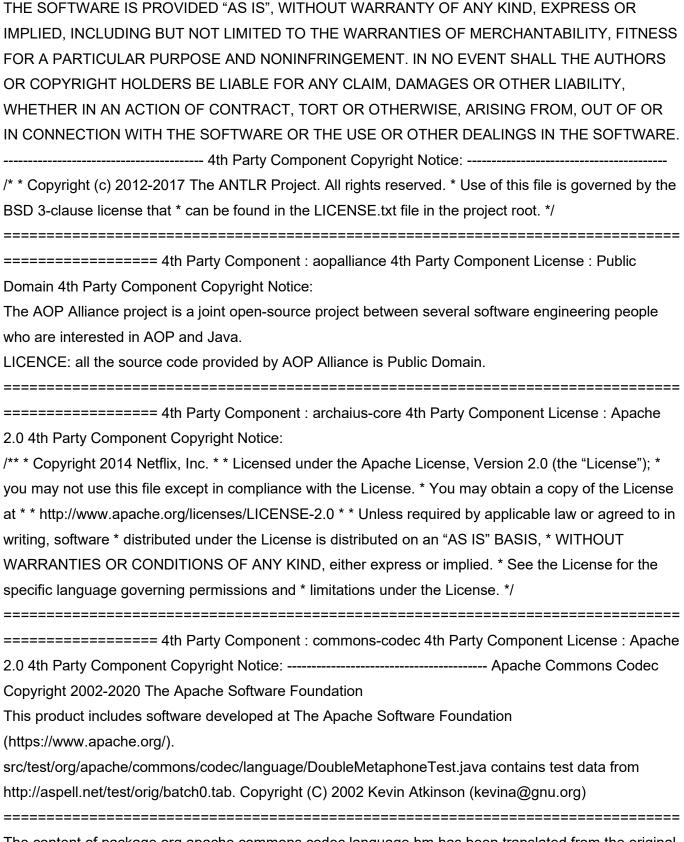
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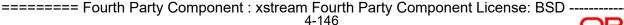
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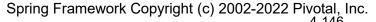
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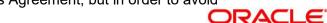
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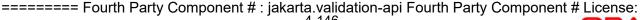
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## # Jackson JSON processor

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

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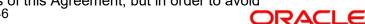
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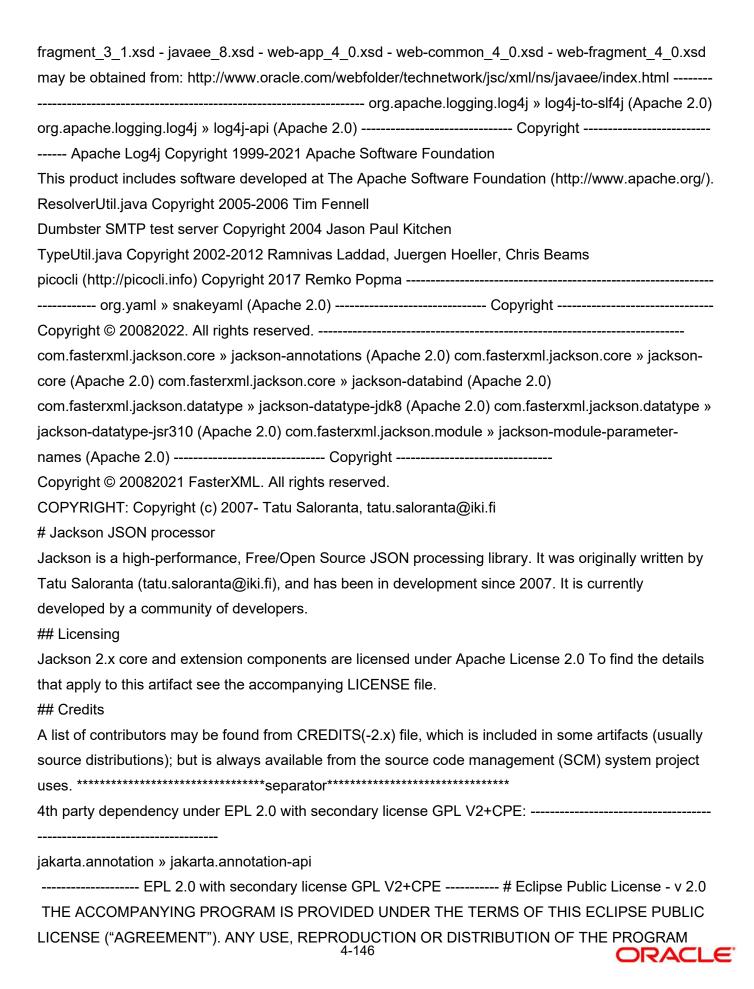
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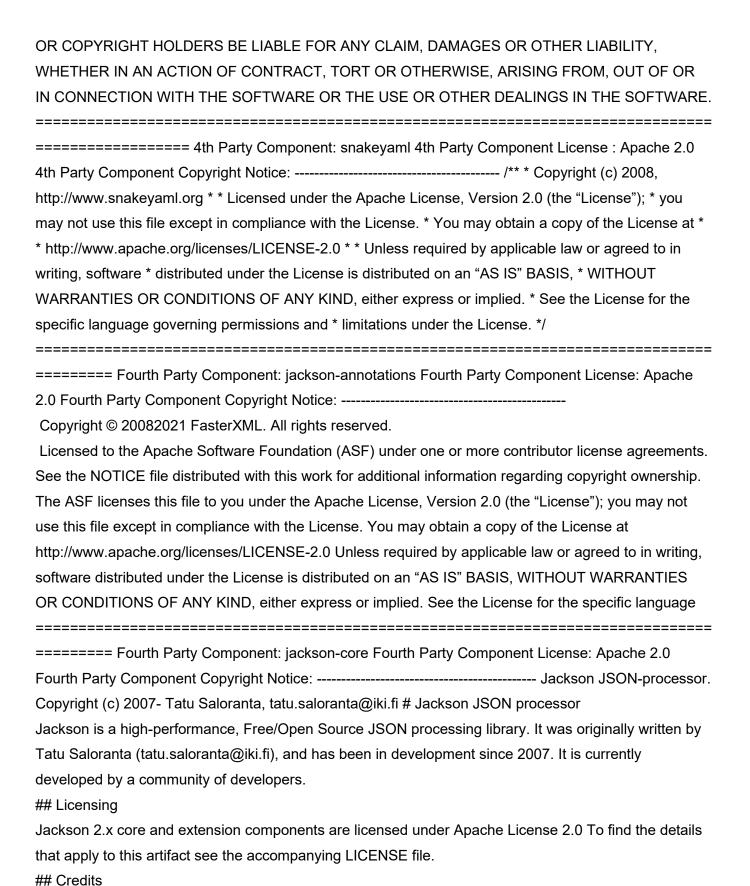
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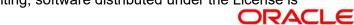
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