License Guide – License Subscription
Oracle FLEXCUBE Universal Banking
Release 14.7.2.0.0
Part No. F87755-01
[November] [2023]





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[November] [2023]
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1. Preface

1.1 Introduction

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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>

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookupctx=acc&id=docacc.

1.4 Organization

This manual is organized into the following chapters:

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

1.5 Related Documents

For more information, refer to the following documents:

- End user license agreement
- Oracle FLEXCUBE User Manuals



2. Oracle FLEXCUBE Universal Banking License Subscription Licensing

2.1 Introduction

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

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

2.2 **General Licensing Rules**

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

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	 Oracle FLEXCUBE Development Workbench License Subscription Oracle FLEXCUBE Integration Gateway License Subscription Oracle Database Enterprise Edition, Partitioning, and TopLink, Application Development Framework 	 Application User 1K Accounts 10K Financial Inclusion Accounts 	
Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts License Subscription	Oracle FLEXCUBEUniversal Banking Base License Subscription	 Application User 1K Accounts 10K Financial Inclusion Accounts 	
Oracle FLEXCUBE Universal Banking Relationship Pricing License Subscription	 Oracle FLEXCUBEUniversal Banking Base License Subscription Either Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts License Subscription OR Oracle FLEXCUBE Universal Banking Term Deposits License Subscription 	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	Application User1K Accounts	
Oracle FLEXCUBE Universal Banking Standing Instructions License Subscription	Oracle FLEXCUBEUniversal Banking Base License Subscription	Application User1K Accounts	



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Oracle FLEXCUBE Universal Banking Commercial Leasing License Subscription	 Oracle FLEXCUBEUniversal Banking Base License Subscription 	Application User1K Accounts
Oracle FLEXCUBE Universal Banking Inventory Management License Subscription	 Oracle FLEXCUBEUniversal Banking Base License Subscription Oracle FLEXCUBEUniversal Banking Current Accounts & Savings Accounts License 	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
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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	 10K API Calls 1K Accounts Processor 10K Financial Inclusion 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.

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
	 Temporary OD on FI customer's CASA accounts is allowed for a short term without attaching any collateral or credit linebacking.
	 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



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	 Following loan features are not available for Financial Inclusion Customer 	
Enterprise Loans License Subscription	Origination / Onboarding	
	Auto disbursement	
	Rate revisions	
	Provisioning	
	Re-negotiation	
	Amendments	
	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)	11.0.16
			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	19.18.0.0.0
Oracle FLEXCUBE	UI-Host and Centralized	Client Systems	Windows 10	Mozilla Firefox	102+
Universal				Google Chrome	107+
Banking				Microsoft Edge	107+
			Mac OS V	Mozilla Firefox	Mozilla Firefox for Mac (102+)
			Mac OS X	Safari	15+
				Google Chrome	107+



Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming) HTTP Servlet (incoming) EJB (incoming) MDB (incoming) Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	14.1.1.0.0
Oracle FLEXCUBE Universal Banking Switch	Switch Integration Gateway	Integration Server	Oracle Enterprise Linux Server 8.3	JDK	11.0.16
Integration Gateway	ntegration		(x86 64 Bit)		
Oracle FLEXCUBE Universal Banking	Web services Integration Server	Oracle Enterprise Linux Server 8.3	JDK	11.0.16	
REST			(x86 64	Oracle WebLogic Server	14.1.1.0.0
			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)	11.0.16	Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic.
Open Symphony Quartz	2.3.2	Standard requirement
Oracle Toplink	14.1.1.0.0	Optional - Required only if limits tracking is required.
Oracle RDBMS Enterprise Edition	19.18.0.0.0	Standard requirement



4. Third Party Licenses

4.1 Introduction

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

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

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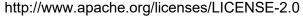
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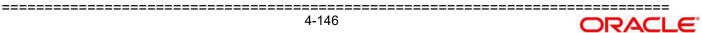
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Tatu Saloranta (tatu.saloranta@iki.fi): author

Henning Schmiedehausen (hgschmie@github)

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

Jerome Loisel (jloisel@github)

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

Peter Royal (osi@github)

* Reported #20: fails to serialize empty Optional with @JsonUnwrapped annotation (2.6.4) * Reported #25: OptionalDoubleSerializer does not override acceptJsonFormatVisitor (2.6.4) * Reported, 4-146

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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----- Eclipse

The following artifacts are EPL. * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

The following artifacts are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish

---- Oracle

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

The following artifacts are licensed by the OW2 Foundation according to the terms of

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

----- Apache

The following artifacts are ASL2 licensed.

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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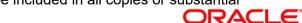
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===== 4th party dependencies ========

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/3

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error_prone_annotations (https://github.com/google/error-prone)

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 by the Checker Framework developers

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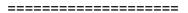
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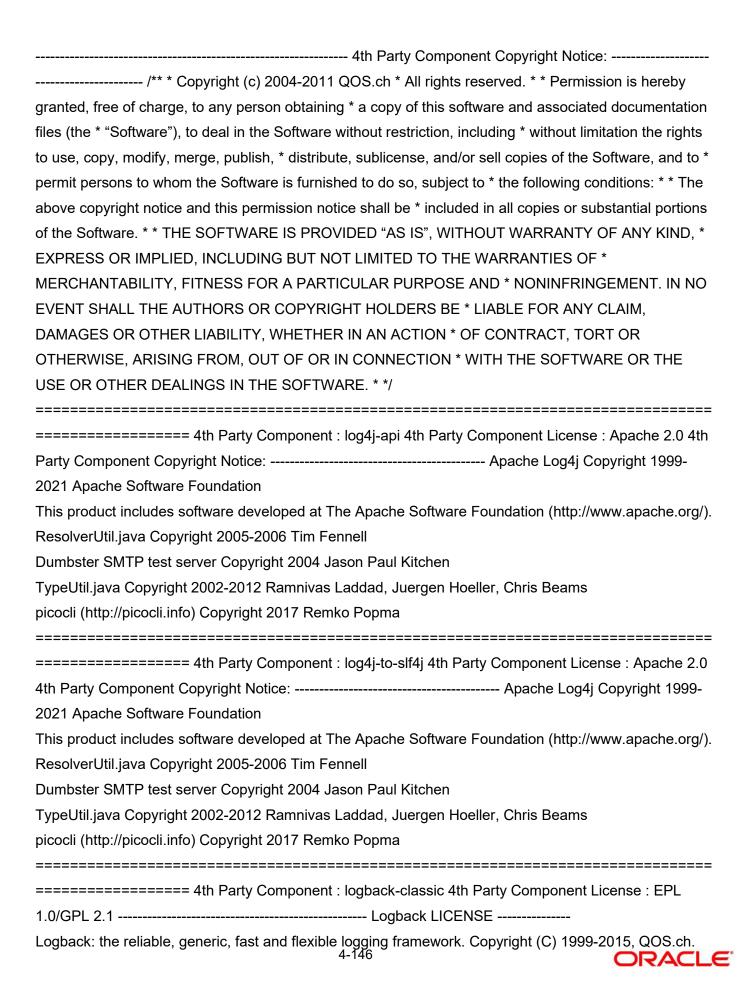
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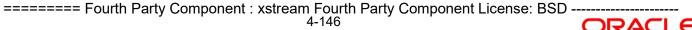
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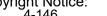
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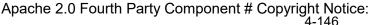
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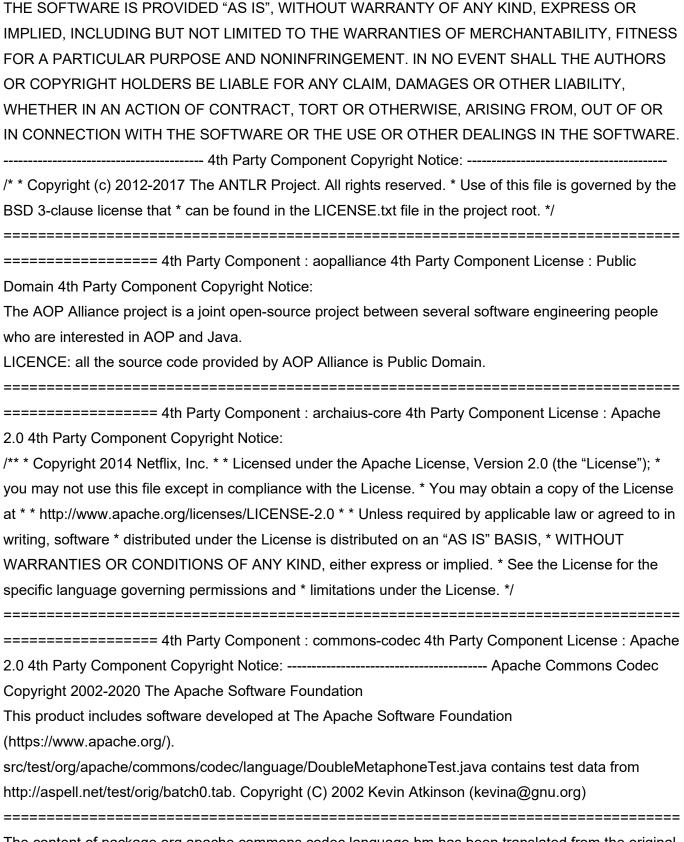
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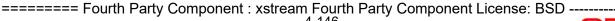
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Source Code

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* https://github.com/eclipse-ee4j/common-annotations-api

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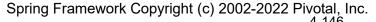
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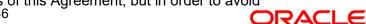
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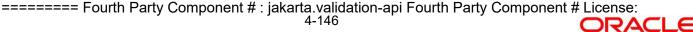
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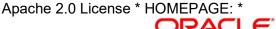
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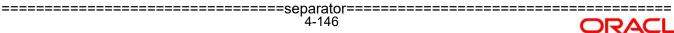
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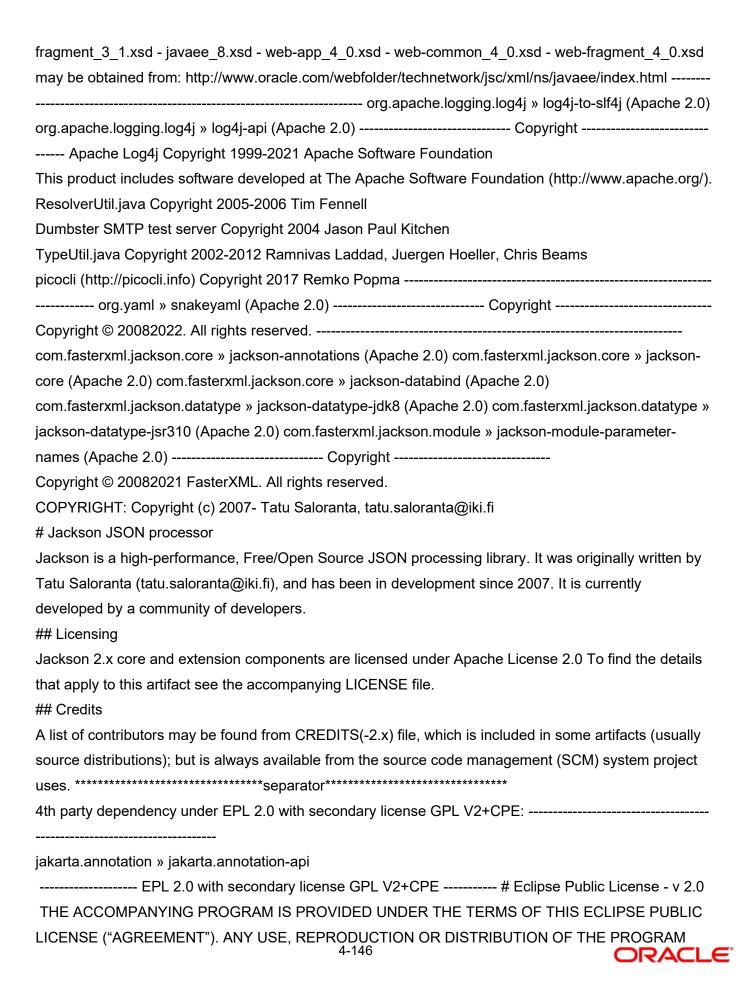
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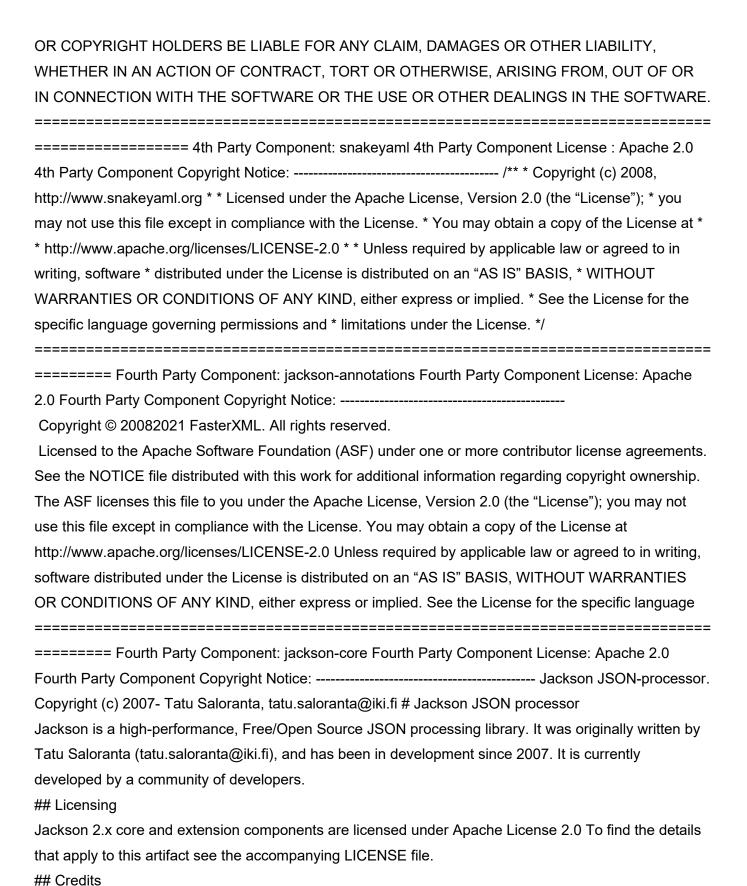
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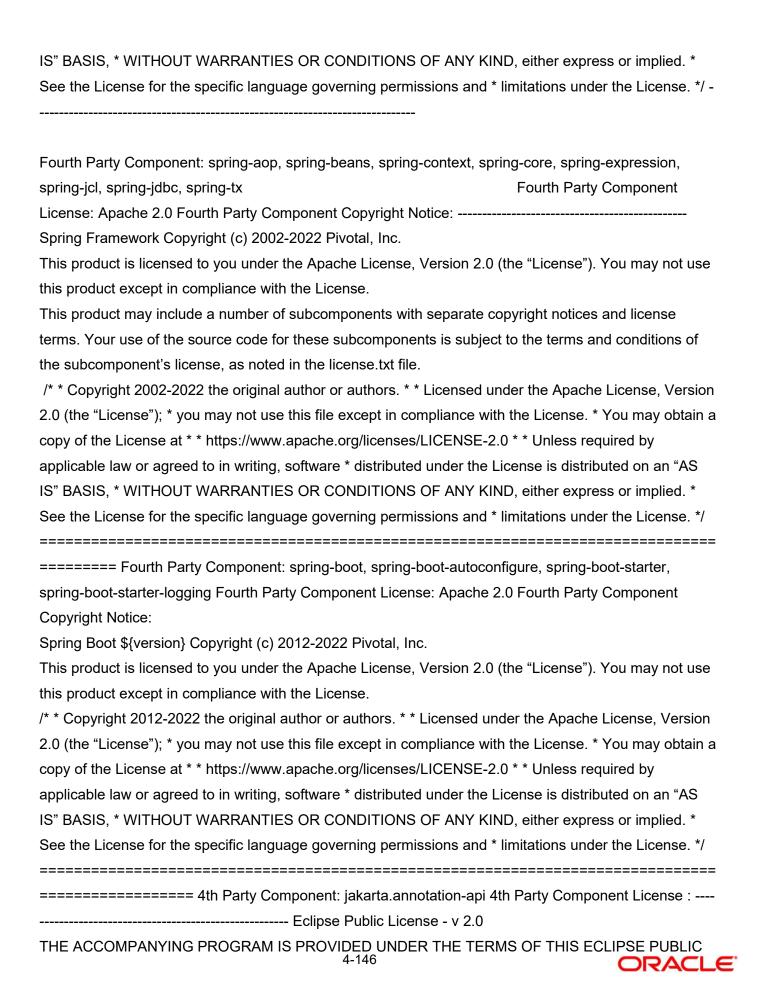
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