

License Guide - On Premise
Oracle FLEXCUBE Universal Banking
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License Guide
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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/lookupctx=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

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	

Sl. No.	Module Description	Licensing Rule(s)
Corporate Modules		
3	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.
4	Oracle FLEXCUBE Universal Banking Commercial Leasing	
5	Oracle FLEXCUBE Integration Gateway	

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. 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 Current Accounts and Savings Accounts
 - Oracle FLEXCUBE Universal Banking Fixed Assets
 - Oracle FLEXCUBE Universal Banking Relationship Pricing
 - Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans
 - Oracle FLEXCUBE Universal Banking Term Deposits
 - Oracle FLEXCUBE Universal Banking Islamic Commercial Lending and Leasing

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	• Oracle FLEXCUBE Development Workbench • Oracle FLEXCUBE Integration Gateway • Oracle Database Enterprise Edition, Partitioning, and TopLink, Application Development Framework	• Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Relationship Pricing	• Oracle FLEXCUBE Universal Banking Base • Either Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts OR Oracle FLEXCUBE Universal Banking Term Deposits	• Account
Oracle FLEXCUBE Universal Banking Term Deposits	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	• Oracle FLEXCUBE Universal Banking Base	• Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Nostro Reconciliation	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Standing Instructions	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking ATM Interface	• Oracle FLEXCUBE Universal Banking Base	• Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Point of Sale Interface	• Oracle FLEXCUBE Universal Banking Base	• Account • Financial Inclusion Account

Oracle FLEXCUBE Universal Banking Interactive Voice Response Interface	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Mortgages	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Consumer Leasing	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Commercial Leasing	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Inventory Management	• Oracle FLEXCUBE Universal Banking Base • Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts	• Account
Oracle FLEXCUBE Universal Banking Microfinance	• Oracle FLEXCUBE Universal Banking Base • Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	• Account
Oracle FLEXCUBE Universal Banking Safe Deposit Box	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Corporate Deposits	NA	• Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Fixed Assets	NA	• Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Asset Management	• Oracle Banking Treasury Management	• Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Expense Processing	NA	• Application User • Custom Suite User

Oracle FLEXCUBE Universal Banking Islamic Commercial Lending and Leasing	• Oracle FLEXCUBE Universal Banking Base	• Account • Application User • Custom Suite User
Oracle FLEXCUBE Open Development Tools		
Oracle FLEXCUBE Development Workbench	• Either of FLEXCUBE Universal Banking for Corporate (by Application User/Custom Suite User) or FLEXCUBE Universal Banking Base (Account) or Banking Enterprise Limits Management, Banking Collateral Management or Banking Corporate Lending or Banking Payments or Banking Trade Finance or Banking Treasury Management	• Application User
Oracle FLEXCUBE Interfaces and Tools		
Oracle FLEXCUBE Integration Gateway	• Either of FLEXCUBE Universal Banking for Corporate (by Application User/Custom Suite User) or FLEXCUBE Universal Banking Base (Account) or Banking Enterprise Limits Management, Banking Collateral Management or Banking Corporate Lending or Banking Payments or Banking Trade Finance or Banking Treasury Management	• 10K API Calls • Account • Processor • Financial Inclusion Account

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 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	- 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	- 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

Product or Component	Restrictions/Features Omitted
Oracle Banking Branch	• 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.
Oracle FLEXCUBE Integration Gateway	No restrictions brought in.
Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	• Following loan features are not available for Financial Inclusion Customer ▪ Origination / Onboarding ▪ Auto disbursement ▪ Rate revisions ▪ Provisioning ▪ Re-negotiation ▪ Amendments • FI Loans are only created in Branch currency • A new screen is made available for loan account input for FI customer
Oracle FLEXCUBE Universal Banking Point of Sale Interface	No restrictions brought in.

3. Software Pre-requisites

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 8.7 (x86 64 Bit)	Oracle WebLogic Server	14.1.2.0.0
				Java HotSpot(TM) JDK (with WebLogic Application Server)	17.0.12
				Open Symphony Quartz	2.3.2
		Database Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.25.0.0.0
		UI	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle JET	V17.0.3
		Client Machines Note - Browser Support is strictly tied to the Browser itself, and no longer based on the Operating System.		Mozilla Firefox	102+
				Microsoft Edge	107+
				Safari	15+
				Google Chrome	107+
Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	14.1.1.0.0
	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 8.3 (x86 64 Bit)	JDK	11.0.16
Oracle FLEXCUBE Universal Banking REST Services	Web services	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	JDK	11.0.16
				Oracle WebLogic Server	14.1.1.0.0
				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
Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	14.1.1.0.0
	HTTP Servlet (incoming)				
	EJB (incoming)				
	MDB (incoming)				
	Notifications (outgoing)				
Oracle FLEXCUBE Universal Banking	Switch Integration Gateway	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	JDK	11.0.16
Switch Integration Gateway					
Oracle FLEXCUBE Universal Banking	Web services	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	JDK	11.0.16
				Oracle WebLogic Server	14.1.1.0.0

REST			Bit)	Oracle Toplink	14.1.1.0.0
Oracle FLEXCUBE Machine Learning	Centralized	Machine Learning Server	Oracle Enterprise Linux server 8.7 (x86 64 bit)	OML4R (Previously Oracle R Enterprise)	1.5.1
Oracle FLEXCUBE Oracle Digital Assistant Integration	Centralized	Application Server	Oracle Enterprise Linux server 8.7 (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 Module-wise Software Prerequisites

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

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angus-activation

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OSXAdapter

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 *  
 *  
 * @uses javax.xml.soap.MessageFactory  
 * @uses javax.xml.soap.SAAJMetaFactory  
 * @uses javax.xml.soap.SOAPConnectionFactory  
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Source: <http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

Apache Ant (1.6)

License: Apache-1.1

Project: <https://ant.apache.org/>

Source: <https://repo1.maven.org/maven2/ant/ant/1.6/ant-1.6-sources.jar>

Apache Ant (1.10.2)

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commons-logging (1.1.2)

License: Apache-2.0

Project: <https://commons.apache.org/proper/commons-logging/>

Source: <http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar>

JUnit (4.12)

License: Eclipse Public License

maven-core (3.5.2)

License: Apache-2.0

maven-plugin-annotations (3.5.1)

License: Apache-2.0

Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

Source: <https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

maven-plugin-api (3.5.2)

License: Apache-2.0

Project: <https://maven.apache.org/>

Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

maven-resolver-api (1.1.1)

License: Apache-2.0

maven-resolver-util (1.1.1)

License: Apache-2.0

maven-settings (3.5.2)

License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

License: Oasis Style

Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1

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relaxng-datatype (1.0)

License: New BSD license

stax2-api (4.1)

License: Pending

Project: <https://github.com/FasterXML/stax2-api>

Source:

<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

License: Apache-2.0 AND MIT

Project: <https://testng.org/doc/index.html>

Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

License: Apache-2.0

woodstox-core-asl (5.1.0)

License: Apache-2.0

Project: <https://github.com/FasterXML/woodstox>

Source: <https://github.com/FasterXML/woodstox>

ws-addr.wsd (1.0)

License: W3C

Project: <https://www.w3.org/2005/08/addressing/>

Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

License: Oasis Style

Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>
Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

wscor.xsd (1.0)

License: OASIS Style

wscor.xsd (1.1)

License: Oasis (Custom)
Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>
Source: <http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wrm Version: 2005/02 (n/a)

License: Oasis (Custom)
Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>
Source: <http://schemas.xmlsoap.org/ws/2005/02/rm/wrm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wrm-policy.xsd>

wrm.xsd (1.2)

License: Oasis

wstx-wsat.xsd (1.1)

License: Oasis (Custom)

xmlsec (1.5.8)

License: Apache-2.0
Project: <http://santuario.apache.org/>
Source: <https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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=====

#4th party dependency#1: com.sun.xml.ws:policy

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Source Code

The project maintains the following source code repositories:

- <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>
- <https://github.com/eclipse-ee4j/metro-policy>
- <https://github.com/eclipse-ee4j/metro-wsit>
- <https://github.com/eclipse-ee4j/metro-mimepull>
- <https://github.com/eclipse-ee4j/metro-ws-test-harness>
- <https://github.com/eclipse-ee4j/metro-package-rename-task>
- <https://github.com/eclipse-ee4j/metro-jax-ws>
- <https://github.com/eclipse-ee4j/metro-saaj>
- <https://github.com/eclipse-ee4j/metro-jwsdp-samples>
- <https://github.com/eclipse-ee4j/jax-rpc-ri>

Third-party Content

This project leverages the following third party content.

addressing.xml Version: 2004/10 (n/a)

License: W3C

Project: <https://www.w3.org/Submission/ws-addressing/>

Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

ant-launcher (1.10.2)

License: Apache-2.0 AND SAX-PD AND W3C
Project: <https://ant.apache.org/>
Source: <http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

Apache Ant (1.6)

License: Apache-1.1
Project: <https://ant.apache.org/>
Source: <https://repo1.maven.org/maven2/org/apache/ant/ant/1.6/ant-1.6-sources.jar>

Apache Ant (1.10.2)

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commons-logging (1.1.2)

License: Apache-2.0
Project: <https://commons.apache.org/proper/commons-logging/>
Source: <http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar>

JUnit (4.12)

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maven-core (3.5.2)

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maven-plugin-annotations (3.5.1)

License: Apache-2.0
Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>
Source: <https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

maven-plugin-api (3.5.2)

License: Apache-2.0

Project: <https://maven.apache.org/>

Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

maven-resolver-api (1.1.1)

License: Apache-2.0

maven-resolver-util (1.1.1)

License: Apache-2.0

maven-settings (3.5.2)

License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

License: Oasis Style

Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

License: New BSD license

stax2-api (4.1)

License: Pending
Project: <https://github.com/FasterXML/stax2-api>
Source:
<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

License: Apache-2.0 AND MIT
Project: <https://testng.org/doc/index.html>
Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

License: Apache-2.0

woodstox-core-asl (5.1.0)

License: Pending
Project: <https://github.com/FasterXML/woodstox>
Source: <https://github.com/FasterXML/woodstox>

ws-addr.wsd (1.0)

License: W3C
Project: <https://www.w3.org/2005/08/addressing/>
Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

License: Oasis Style
Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>
Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

wscoor.xsd (1.0)

License: OASIS Style

wscor.xsd (1.1)

License: Oasis (Custom)
Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>
Source: <http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wsm Version: 2005/02 (n/a)

License: Oasis (Custom)
Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>
Source:
<http://schemas.xmlsoap.org/ws/2005/02/rm/wsm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsm-policy.xsd>

wsm.xsd (1.2)

License: Oasis

wstx-wsat.xsd (1.1)

License: Oasis (Custom)

xmlsec (1.5.8)

License: Apache-2.0
Project: <http://santuario.apache.org/>
Source:
<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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#4th party dependency#2 License:

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Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jaxb-ri>
- * <https://github.com/eclipse-ee4j/jaxb-istack-commons>
- * <https://github.com/eclipse-ee4j/jaxb-dtd-parser>
- * <https://github.com/eclipse-ee4j/jaxb-fi>
- * <https://github.com/eclipse-ee4j/jaxb-stax-ex>
- * <https://github.com/eclipse-ee4j/jax-rpc-ri>

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* License: Apache License, 2.0

args4j (2.33)

* License: MIT License

dom4j (1.6.1)

* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0

* Project: <https://maven.apache.org/shared/file-management/>

* Source:

<https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/>

JUnit (4.12)

* License: Eclipse Public License

JUnit (4.12)

* License: Eclipse Public License

maven-compat (3.5.2)

* License: Apache-2.0

* Project: <https://maven.apache.org/ref/3.5.2/maven-compat/>

* Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2>

maven-core (3.5.2)

* License: Apache-2.0

* Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>

* Source:
<https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>
* Source:
<https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

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maven-resolver-api (1.1.1)

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maven-resolver-connector-basic (1.1.1)

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* License: Apache-2.0

maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>
* Source: <https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

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* Source: <https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: <https://codehaus-plexus.github.io/plexus-archiver/>
* Source: <https://github.com/codehaus-plexus/plexus-archiver>

plexus-io (3.0.0)

* License: Apache-2.0

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relaxng-datatype (1.0)

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Sax (0.2)

* License: SAX-PD

* Project: <http://www.megginson.com/downloads/SAX/>

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Source:

http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)

* Project: <https://testng.org/doc/index.html>

* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

* License: Pending

* Project: <https://maven.apache.org/wagon/>

* Source:

<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

xz for java (1.8)

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<https://github.com/eclipse-ee4j/jaxb-stax-ex>
<https://github.com/eclipse-ee4j/jax-rpc-ri>

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Apache Felix (1.2.0)

License: Apache License, 2.0

args4j (2.33)

License: MIT License

dom4j (1.6.1)

License: Custom license based on Apache 1.1

file-management (3.0.0)

License: Apache-2.0

Project: <https://maven.apache.org/shared/file-management/>

Source: <https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/>

JUnit (4.12)

License: Eclipse Public License

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maven-compat (3.5.2)

License: Apache-2.0

Project: <https://maven.apache.org/ref/3.5.2/maven-compat/>

Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2>

maven-core (3.5.2)

License: Apache-2.0

Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>

Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

License: Apache-2.0

Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>

Source: <https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

License: Apache-2.0

maven-resolver-api (1.1.1)

License: Apache-2.0

maven-resolver-api (1.1.1)

License: Apache-2.0

maven-resolver-connector-basic (1.1.1)

License: Apache-2.0

maven-resolver-impl (1.1.1)

License: Apache-2.0

maven-resolver-spi (1.1.1)

License: Apache-2.0

maven-resolver-transport-file (1.1.1)

License: Apache-2.0

Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>

Source: <https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

maven-resolver-util (1.1.1)

License: Apache-2.0

maven-settings (3.5.2)

License: Apache-2.0

Source:
<https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

License: Apache License, 2.0

plexus-archiver (3.5)

License: Apache-2.0

Project: <https://codehaus-plexus.github.io/plexus-archiver/>

Source: <https://github.com/codehaus-plexus/plexus-archiver>

plexus-io (3.0.0)

License: Apache-2.0

plexus-utils (3.1.0)

License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)

License: New BSD license

Sax (0.2)

License: SAX-PD

Project: <http://www.megginson.com/downloads/SAX/>

Source:

http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

License: Apache-2.0 AND (MIT OR GPL-1.0+)

Project: <https://testng.org/doc/index.html>

Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

License: Pending

Project: <https://maven.apache.org/wagon/>

Source:

<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

xz for java (1.8)

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#4th party dependency#8: org.jvnet.mimepull:mimepull

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#4th party dependency#9: com.sun.xml.fastinfoset:FastInfoset

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<https://github.com/eclipse-ee4j/jaxb-dtd-parser>
<https://github.com/eclipse-ee4j/jaxb-fi>
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args4j (2.33)

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file-management (3.0.0)

License: Apache-2.0

Project: <https://maven.apache.org/shared/file-management/>

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JUnit (4.12)

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maven-compat (3.5.2)

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License: Apache-2.0

Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>

Source: <https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

License: Apache-2.0

Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>

Source: <https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

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maven-resolver-api (1.1.1)

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maven-resolver-api (1.1.1)

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maven-resolver-connector-basic (1.1.1)

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maven-resolver-impl (1.1.1)

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maven-resolver-spi (1.1.1)

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maven-resolver-transport-file (1.1.1)

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Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>

Source: <https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

maven-resolver-util (1.1.1)

License: Apache-2.0

maven-settings (3.5.2)

License: Apache-2.0
Source:
<https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

License: Apache License, 2.0

plexus-archiver (3.5)

License: Apache-2.0
Project: <https://codehaus-plexus.github.io/plexus-archiver/>
Source: <https://github.com/codehaus-plexus/plexus-archiver>

plexus-io (3.0.0)

License: Apache-2.0

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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testng (6.14.2)

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Project: <https://testng.org/doc/index.html>

Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

License: Pending

Project: <https://maven.apache.org/wagon/>

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<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

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Source Code

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<https://github.com/jakartaee/jaf-api>

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JTHarness (5.0)

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Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

Source: <http://hg.openjdk.java.net/code-tools/jtharness/>

JUnit (4.12)

License: Eclipse Public License

normalize.css (3.0.2)

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Project: <http://nicolas.github.io/normalize.css/>

Source: <http://nicolas.github.io/normalize.css/>

SigTest (4.0)

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Project: <https://wiki.openjdk.java.net/display/CodeTools/sigtest>

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the
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A

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- * License: Pending
- * Project: <https://maven.apache.org/wagon/>
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 - * Providing benchmark suite
- * Alec Wysoker
 - * Performance and memory usage improvement

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
has

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```
=====
Fourth-party dependency : ch.randelshofer.fastdoubleparser
=====
```

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This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and
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ch.randelshofer:fastdoubleparser

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<https://github.com/tbukt/bigint/tree/floatfft>

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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Dependency 1:
accessors-smart

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ASM

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- 9.camel-core-processor
- 10.camel-core-reifier
- 11.camel-log

12.camel-support
13.camel-util
14.camel-util-json

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org.apache.poi.util.ReplacingInputStream is based on code from inbot-utils (<https://github.com/Inbot/inbot-utils>)

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Other developers who have contributed code are:

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Jackson JSON processor

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Fourth-party dependency : ch.randelshofer.fastdoubleparser
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Fourth Party Dependency #7 Name : jackson-core

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ch.randelshofer:fastdoubleparser

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This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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org.springframework	spring-beans
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org.springframework.boot	spring-boot-starter
org.springframework.boot	spring-boot-starter-json
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ch.qos.logback logback-core

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org.slf4j slf4j-api

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
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- `javaee_web_services_client_1_3.xsd`
- `jsp_2_2.xsd`
- `web-app_3_0.xsd`
- `web-common_3_0.xsd`

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- javaee_web_services_client_1_4.xsd
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- web-common_3_1.xsd
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* Helen Hawkins - initial version (bug 148190)

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org.springframework.boot:spring-boot-starter-json

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org.slf4j slf4j-api

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org.springframework.boot	spring-boot
org.springframework.boot	spring-boot-autoconfigure
org.springframework.boot	spring-boot-starter
org.springframework.boot	spring-boot-starter-logging

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org.apache.logging.log4j	log4j-to-slf4j

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picocli (<http://picocli.info>)

Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java

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ch.qos.logback logback-classic

ch.qos.logback logback-core

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org.slf4j jul-to-slf4j
org.slf4j slf4j-api

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(tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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org.apache.poi.util.ReplacingInputStream is based on code from inbot-utils (<https://github.com/Inbot/inbot-utils>)

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The textbook (containing a proof that the shuffle is uniformly random)
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a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen
1999).
The textbook (containing a proof that the shuffle is uniformly random)
is
available here:

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A

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* Tatu Saloranta

* Providing benchmark suite

* Alec Wysoker

* Performance and memory usage improvement

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

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It is currently developed by a community of developers.

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=====
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ch.randelshofer:fastdoubleparser

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Fourth party dependencies

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#02 org.lz4:lz4-java:jar
#03 org.xerial.snappy:snappy-java:jar
#04 org.slf4j:slf4j-api:jar

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Fourth party #01 : com.github.luben:zstd-jni:jar

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micrometer-observation

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org.hdrhistogram:HdrHistogram

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org.latencyutils:LatencyUtils

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simpleclient_tracer_otel
simpleclient_tracer_otel_agent
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Fourth party dependency

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Spring-core
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angus-activation

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