

Licensing Guide – License Subscription  
Oracle Banking Cash Management  
Release 14.5.0.0.0  
Part No. F42229-01  
May 2021





Licensing Guide  
May 2021  
Version 14.5.0.0.0

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# 1. Preface

## 1.1 Introduction

This document guides you for understanding the rules of Oracle Banking Cash Management 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 packaged along with Oracle Banking Cash Management License Subscription.

## 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/us/corporate/accessibility/index.html>.

## 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 Banking Cash Management License Subscription t Licensing</i> provides information on <i>Oracle Banking Cash Management License Subscription</i> licensing.
Chapter 3	<i>Software Pre-requisites</i> consists of the technology pre-requisites required for <i>Oracle Banking Cash Management License Subscription</i> .
Chapter 4	<i>Third Party Licenses</i> provides information on licensing of third party software packaged along with <i>Oracle Banking Cash Management License Subscription</i> .

## 1.5 Related Documents

For more information, refer to the following documents:

- Oracle Banking Cash Management Installation Guides
- Oracle Banking Cash Management User Guide

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## 2. Oracle Banking Cash Management License Subscription Licensing

### 2.1 Introduction

This chapter provides information on Oracle Banking Cash Management 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

Not applicable to Oracle Banking Cash Management License Subscription.

### 2.3 Components Included in License

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### 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 Banking Cash Management License Subscription	Oracle Database Enterprise Edition, Oracle HTTP Server, Oracle WebLogic Server, and Oracle WebCenter Content	10K Transactions

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## 3. Environment Details

### 3.1 Tech Stack - Oracle

Following are the separately licensable software prerequisites for Oracle Banking Cash Management Product.

Oracle Banking Cash Management			
Machine	Operating System	Software	Version Number
Application Server	Oracle Linux Server Release 8.3 (x86 64 Bit)	Java HotSpot (TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 281
		Oracle WebLogic	12.2.1.4.0
		Oracle Repository Creation Utility (RCU)	12.2.1.4.0
		Oracle Fusion Middleware Infrastructure	12.2.1.4.0
Database Server	Oracle Linux Server Release 8.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.10.0.0.0 (19c)
Document Management System	Oracle Linux Server Release 8.3 (x86 64 Bit)	Oracle WebCenter Content Imaging	12.2.1.4.0
Client Machines#		Mozilla Firefox	87+
		Google Chrome	88+
		Microsoft Edge	89+
		Apple Safari	14+

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



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### 4.1 Introduction

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

- Apache 2.0
- MIT License
- EDL 1.0
- Others

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zlib

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FreeType font driver for BDF fonts

Francesco Zappa Nardelli

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\*

\* taken from Mark Leisher's xmbdfed package

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zlib.h -- interface of the 'zlib' general purpose compression library  
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libXau

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Eddie Bedada

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TOP LEVEL COMPONENT: spring-security-5.3.4.RELEASE.jar

TOP LEVEL SUBCOMPONENTS

spring-security-core-5.3.4.RELEASE.jar

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#### 4.2.5 **Spring-Security-Oauth**

Top Level Component : Spring-Security-Oauth 2.5.0

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4th party dependencies

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listenablefuture, v9999.0-empty-to-avoid-conflict-with-guava, Apache 2.0

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#### Sub-components

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1. poi-excelant-4.1.2.jar
2. poi-ooxml-schemas-4.1.2.jar
3. poi-scratchpad-4.1.2.jar
4. poi-examples-4.1.2.jar

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4P Dependencies  
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XML Beans 3.1.0

This is used by POI to convert from Java object to XML and back.

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SparseBitSet 1.2

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Top Level Components and subcomponents:

JJWT :: API (io.jsonwebtoken:jjwt-api) ;

JJWT :: Impl (io.jsonwebtoken:jjwt-impl);

JJWT :: Extensions :: Jackson (io.jsonwebtoken:jjwt-jackson) ;

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#### **4.2.16 spring-cloud-stream-binder-kafka**

Top Level Component: Spring-Cloud-Stream-Binder-Kafka 3.0.8.RELEASE



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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](mailto:tatu.saloranta@iki.fi)): author

Henning Schmiedehausen ([hgschmie@github](mailto:hgschmie@github))

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

Jerome Loisel ([jloisel@github](mailto:jloisel@github))

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

Peter Royal ([osi@github](mailto: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](mailto:Quintok@github))

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

James Lorenzen ([jlorenzen@github](mailto:jlorenzen@github))



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

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- web-app\_4\_0.xsd

- web-common\_4\_0.xsd

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- 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
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Eclipse

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\* 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

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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

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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 modifications

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

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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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4th Party Component #149 xmlunit-core

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#### 4.2.18 spring-cloud-stream

Top Level Component : Spring-Cloud-Stream 3.0.8

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Other developers who have contributed code are:

\* Brian Langel

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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 Schiedehausen (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  
(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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Top Level Component : xmlgraphics-fop 2.5

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Joseph Reagle

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-----  
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- 
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  2. spring-cloud-sleuth-core-2.2.5.RELEASE.jar
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(version numbers in brackets indicate release in which the problem was fixed)

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

Henning Schiedehausen ([hgschmie@github](mailto: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  
(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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# 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, as well as supported commercially by FasterXML.com.

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=====  
4th Party Component #8: jetty

1. jetty-http.jar
2. jetty.jar
3. jetty-security.jar
4. jetty-server.jar
5. jetty-servlet.jar
6. jetty-util.jar

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----  
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 modifications

are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

-----  
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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1. netty-buffer.jar
  2. netty-codec.jar
  3. netty-common.jar
  4. netty-handler.jar
  5. netty-resolver.jar
  6. netty-transport.jar
  7. netty-transport-native-epoll.jar
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#### **4.2.26 Simple Logging Facade for Java (SLF4J)**

jcl-over-slf4j

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#### 4.2.28 JsonPath

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#### 4.2.32 spring-cloud-config-client

```
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*
```

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(version numbers in brackets indicate release in which the problem was fixed)

Tatu Saloranta ([tatu.saloranta@iki.fi](mailto: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 (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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- web-app\_3\_0.xsd
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- 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
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#### 4.2.36 spring-cloud-star

Top Level Component : spring-cloud-starter-netflix-zuul

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Andy Clement initial implementation

=====

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(version numbers in brackets indicate release in which the problem was fixed)

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

Henning Schmiedehausen ([hgschmie@github](mailto:hgschmie@github))

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

Jerome Loisel ([jloisel@github](mailto:jloisel@github))

\* Reported #14: Missing `@type` when serializing Optional  
(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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- 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
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- web-common\_3\_1.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
- 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
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#### 4.2.37 spring-cloud-netflix-eureka-client

Top Level Component : spring-cloud-netflix-eureka-client

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The primary ANTLR guy:

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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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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has  
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\* @version 1.0

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#### 4.2.39 camel-core

Top Level Component : camel-core-3.5.0

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Top Level Sub-Component/Modules :

(camel-api-3.5.0.jar, camel-base-3.5.0.jar, camel-bean-3.5.0.jar, camel-browse-3.5.0.jar, camel-caffeine-lrucache-3.5.0.jar, camel-cluster-3.5.0.jar, camel-controlbus-3.5.0.jar, camel-core-catalog-3.5.0.jar, camel-core-engine-3.5.0.jar, camel-core-languages-3.5.0.jar, camel-dataformat-3.5.0.jar, camel-dataset-3.5.0.jar, camel-direct-3.5.0.jar, camel-directvm-3.5.0.jar, camel-file-3.5.0.jar, camel-health-3.5.0.jar, camel-language-3.5.0.jar, camel-log-3.5.0.jar, camel-management-api-3.5.0.jar, camel-mock-3.5.0.jar, camel-ref-3.5.0.jar, camel-rest-3.5.0.jar, camel-saga-3.5.0.jar, camel-scheduler-3.5.0.jar, camel-seda-3.5.0.jar, camel-stub-3.5.0.jar, camel-support-3.5.0.jar, camel-timer-3.5.0.jar, camel-tooling-model-3.5.0.jar, camel-util-3.5.0.jar, camel-util-json-3.5.0.jar, camel-validator-3.5.0.jar, camel-vm-3.5.0.jar, camel-xml-jaxb-3.5.0.jar, camel-xml-jaxp-3.5.0.jar, camel-xpath-3.5.0.jar, camel-xslt-3.5.0.jar)

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**4.2.40 camel-cxf**

Top Level Component : camel-cxf-3.5.0  
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Top Level SubComponent/Modules:  
(camel-api-3.5.0.jar, camel-attachments-3.5.0.jar, camel-base-3.5.0.jar, camel-bean-3.5.0.jar, camel-core-catalog-3.5.0.jar, camel-core-engine-3.5.0.jar, camel-core-languages-3.5.0.jar, camel-core-xml-3.5.0.jar, camel-cxf-transport-3.5.0.jar, camel-health-3.5.0.jar, camel-http-base-3.5.0.jar, camel-main-3.5.0.jar, camel-management-api-3.5.0.jar, camel-spring-3.5.0.jar, camel-support-3.5.0.jar, camel-tooling-model-3.5.0.jar, camel-util-3.5.0.jar, camel-util-json-3.5.0.jar, camel-xml-jaxb-3.5.0.jar, camel-xml-jaxp-3.5.0.jar)

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Fourth Party Dependency : jakarta.ws.rs-api

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\* <https://github.com/eclipse-ee4j/jaxrs-api>

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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  
(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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/\* Stax2 API extension for Streaming API for XML processing (StAX).

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\* This interface declares a simple filter interface that one can

\* create to filter XMLEventReaders

\* @version 1.0

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- 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
- javaee\_8.xsd
- web-app\_4\_0.xsd

- web-common\_4\_0.xsd

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- 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
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- javaee\_8.xsd
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\* \$Id: MXParser.java,v 1.52 2006/11/09 18:29:37 aslom Exp \$

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#### **4.2.47 Conductor**

Top Level Component: Conductor

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4P dependencies:

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`core/src/java/org/apache/lucene/util/compress/LZ4.java` is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's `DataInput/DataOutput` abstractions.

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#### 4.2.48 spring-cloud-netflix-eureka-server

Top Level Component : Spring-Cloud-Netflix-Eureka-Server

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```
/* Jackson JSON-processor.
```

```
*
```

```
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```
*/
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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  
(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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/\* Stax2 API extension for Streaming API for XML processing (StAX).

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\* This interface declares a simple filter interface that one can

\* create to filter XMLEventReaders

\* @version 1.0

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- 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
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
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- 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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#### 4.2.53 Tesseract

Tesseract 4.1.1

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4th party dependencies (as mentioned in <https://github.com/Stuk/jszip/blob/master/package.json>)

Pako 1.0.2  
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set-immediate-shim 1.0.1  
<https://github.com/sindresorhus/set-immediate-shim/releases/tag/v1.0.1>

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Module Name: immediate  
Version: 3.0.6

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inherits@2.0.4  
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isarray@1.0.0

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process-nextick-args@2.0.1  
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safe-buffer@5.1.2

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string\_decoder@1.1.1  
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util-deprecate@1.0.2

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Top Level Component : datefinder 0.7.1

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Fourth Party Dependency #4 Name : six-1.15.0  
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#### 4.3.8 **Knockout.js**

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Note ? The component has NO 4th party components.

## 4.4 **EDL 1.0**

### 4.4.1 **EclipseLink**

Top Level Component: Eclipse-Link-Data-JPA

Top Level Sub-Components:

eclipselink

org.eclipse.persistence.jpa

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4th Party Component #1 commonj.sdo

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*/
```

```
=====
=====
4th Party Component #3: org.eclipse.persistence.antlr
/*
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*/
```

```
=====
=====
4th Party Component #4 org.eclipse.persistence.asm
```

```
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```

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=====
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```

```
4th Party Component #5 org.eclipse.persistence.core
```

```
/*
```

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```
*/
```

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=====
=====
```

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4th Party Component #6 org.eclipse.persistence.jpa.jpql
```

```
/*
```

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jackson-jaxrs-json-provider

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### 4.5.1 JavaScript Extension Toolkit (JET)

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 * https://github.com/yelouafi/petit-dom
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*/
```

```
/* This component is based on original code from:
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 * jQuery JavaScript Library v3.5.1
```

```

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*
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zlib.h -- interface of the 'zlib' general purpose compression library  
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```

```
/*  
 * *****  
 *  
 * This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50  
 *  
 * taken from Mark Leisher's xmbdfed package  
 *  
*/
```

```
#####  
#####
```

--- src/gzip/zlib.h ---

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.1.4, March 11th, 2002

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).  
\*/

--- end of src/gzip/zlib.h ---

```
#####  
#####
```

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Mersenne Twister  
-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

## Sockets

-----

The `:mod:`socket`` module uses the functions `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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#### Asynchronous socket services

-----

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Execution tracing

-----

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## UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

## XML Remote Procedure Calls

-----

The `:mod:`xmlrpc.client`` module contains the following notice::

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test\_epoll

-----

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Select kqueue

-----

The :mod:`select` module contains the following notice for the kqueue interface::

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto\\_auth/siphash24/little](https://github.com/Supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/Supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

```

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```

## OpenSSL

-----

The modules `:mod:`hashlib``, `:mod:`posix``, `:mod:`ssl``, `:mod:`crypt`` use the OpenSSL library for added performance if made available by the operating system. Additionally, the Windows and Mac OS X installers for Python may include a copy of the OpenSSL libraries, so we include a copy of the OpenSSL license here::

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-----

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zlib

----

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Jean-loup Gailly      Mark Adler  
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cfuhash

-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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libmpdec

-----

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#### 4.5.4 **scikit-image**

Top Level Component : scikit-image 0.17.2

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-----  
skimage/\_shared/version\_requirements.py:\_check\_version

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skimage/\_shared/version\_requirements.py:is\_installed:

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