

License Guide - License Subscription

Oracle Banking Branch

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1. Preface

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- Customers
- Partners

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1.4 Organization

This manual is organized into 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 Branch Licensing</i> provides information about Oracle Banking Branch License Subscription licensing.
Chapter 3	<i>Software Pre-requisites</i> consists of the technology pre-requisites required for Oracle Banking Branch License Subscription.
Chapter 4	<i>Third Party Licenses</i> provides information on licensing of third party software that are packaged with Oracle Banking Branch License Subscription.

1.5 Related Documents

For more information, refer to the following documents:

- Oracle Banking Branch User Guide

2. Oracle Banking Branch License Subscription Licensing

2.1 Introduction

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

- General Licensing Rules
- Components Included in License
- Separately Licensed Pre-requisite Products and Licensing Metric
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- Utility Payments

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.

Module Description	Separately Licensed Prerequisites	Licensing Metric(s)
Oracle Banking Branch License Subscription	Not applicable	<ul style="list-style-type: none">• Application User• 1K Branch Accounts• 10K Financial Inclusion Accounts

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3. Software Pre-requisites

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

3.1 Tech Stack – Oracle

Component	Machine	Operating System	Software	Version Number
Oracle Banking Branch	Application Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.4.0
			Java HotSpot (TM) JDK (with WebLogic Application Server)	1.8 Update 281
			Oracle WebLogic	12.2.1.4.0
	Document Management System	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic	12.2.1.4.0
			JDK	1.8 Update 281
			Oracle Database (for RCU)	19.10.0.0.0
			Repository Creation Utility	12.2.1.4.0
	Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.10.0.0.0
	Reporting Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic	12.2.1.4.0
			JDK	1.8 Update 281
			Repository Creation Utility	12.2.1.4.0
			Oracle Database (for RCU)	19.10.0.0.0
			Oracle Analytical Server (Oracle BI Publisher)	5.9.0
	Client		Mozilla Firefox	For detailed information on Browser Support, please refer to the Oracle Software Web Browser Support Policy at https://www.oracle.com/middleware/technologies/browser-policy.html
			Apple Safari	
Google Chrome				
Microsoft Edge				

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.

3.2 Module-wise Software Prerequisites

Product Name	Product Version	Requirements
Oracle Fusion Middleware Infrastructure	12.2.1.4.0	Standard requirement.
Java HotSpot(TM) JDK (with WebLogic Application Server)	1.8 Update 281	Standard requirement.
Oracle WebLogic	12.2.1.4.0	Standard requirement.
Repository Creation Utility	12.2.1.4.0	Standard requirement.
Oracle WebCenter Content Imaging	12.2.1.4.0	Standard requirement.
Oracle RDBMS Enterprise Edition	19.10.0.0.0	Standard requirement.
Oracle Analytical Server (Oracle BI Publisher)	5.9.0	Standard requirement.

NOTE: Refer to section [3.1 Tech Stack – Oracle](#) for dependent software details.

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Pytesseract

Top Level Component Name: pytesseract

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Dependencies for Pillow:

/-----/

libjpeg

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/-----/

zlib

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FreeType font driver for BDF fonts
Francesco Zappa Nardelli

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This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50

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taken from Mark Leisher's xmbdfed package

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
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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).

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libxcb

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libXau

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Spring Security

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`spring-security-ldap-5.3.4.RELEASE.jar`

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4P Dependencies
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jjwt

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

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

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Spring Boot

Top Level Component : Spring-Boot 2.3.3

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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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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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- `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
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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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

- web-fragment_4_0.xsd

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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 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>

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

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<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.

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cglib

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spring-cloud-stream

Top Level Component : Spring-Cloud-Stream 3.0.8

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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 Schriedehausen (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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- 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
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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`
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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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- 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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netty-codec-http

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netty-transport-native-epoll

Top Level Component : netty-transport-native-epoll-4.1.52.Final

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Top Level Component : Spring-Cloud-Sleuth 2.2.5

Top Level Sub-Components:

- 1. spring-cloud-starter-sleuth-2.2.5.RELEASE.jar
2. spring-cloud-sleuth-core-2.2.5.RELEASE.jar
3. spring-cloud-sleuth-zipkin-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): 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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1. jetty-http.jar
2. jetty.jar
3. jetty-security.jar
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Top Level Component : spring-cloud-config-server

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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<>`
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4th Party Component #1 aspectjweaver

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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): author
Henning Schriedehausen (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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- 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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- 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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spring-cloud-netflix-eureka-client

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

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4th Party Component #1 aspectjweaver

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4th Party Component #2 jakarta-annotation-api
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camel-cxf

Top Level Component : camel-cxf-3.5.0

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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Source Code

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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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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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@version 1.0

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org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- 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
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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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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/Woodstox XML processor

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Created on 13. April 2006 by Joerg Schaible

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Other developers who have contributed code are:

Brian Langel"

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spring-cloud-netflix-eureka-server

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

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(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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- 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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Tesseract

Tesseract 4.1.1

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Simple Logging Facade for Java (SLF4J)

jcl-over-slf4j

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Files: `benchmarks/benchmarks/go_benchmark_functions/*.py`

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skimage/_shared/version_requirements.py: _check_version

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Fourth Party Dependency #6 Name : imageio 2.9.0

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lie 3.3.0
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readable-stream 2.3.6

<https://github.com/nodejs/readable-stream/releases/tag/v2.3.6>

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set-immediate-shim 1.0.1

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Module Name: immediate

Version: 3.0.6

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core-util-is@1.0.2

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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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python-dateutil

Top Level Component : python-dateutil 2.8.1

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4th Party Component #5 org.eclipse.persistence.core
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zlib.h -- interface of the 'zlib' general purpose compression library
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FreeType font driver for PCF fonts

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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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Any feedback is very welcome.

<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
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Asynchronous socket services

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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

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Select kqueue

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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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Jean-loup Gailly

Mark Adler

jloup@gzip.org

madler@alumni.caltech.edu

cfuhash

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

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- netty-codec-http 4.1.52.Final
- Avro 1.10.0

- flyway-core 6.5.5
- jackson-dataformat-xml 2.11.2
- jackson-jaxrs-json-provider 2.11.2
- cglib 3.3.0
- Apache FOP 2.5
- Kafka 2.6.0
- spring-cloud-netflix-eureka-client 2.2.5.RELEASE
- Commons IO 2.8.0
- OpenNLP-tools 1.9.3
- jslt 0.1.9
- camel-core 3.5.0
- velocity-tools-generic 3.0-422ed61
- spring-cloud-config-server 2.2.5.RELEASE
- spring-cloud-netflix-eureka-server 2.2.5.RELEASE
- tika-core 1.25
- Guava 29.0
- modelmapper 2.3.8
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- tess4j 4.5.4
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- camel-cxf 3.5.0
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- spring-cloud-config-client 2.2.5.RELEASE
- spring-cloud-starter-config 2.2.5.RELEASE
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- jQuery 3.5.1
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- lodash 4.17.20
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- python-magic 0.4.18
- six 1.15.0
- datefinder 0.7.1
- pdf2image 1.14.0
- Moment.js 2.24.0
- Pyap 0.3.1
- Simple Logging Facade for Java (SLF4J) 1.7.30
- Node-TimSort 0.3.0
- Lombok 1.18.16

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