

**Oracle® Communications
Convergent Charging Controller**

Licensing Information User Manual

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Introduction

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Licensing Information

Product	Subproduct	Licensing Description
Oracle Communications Convergent Charging Controller	Oracle Communications Convergent Charging Controller – All Core Options	<p>Service control and online mediation for voice, data, and value-added services, and voucher management</p> <p>For any deployment of Oracle Communications Convergent Charging Controller, the customer first has to purchase one of the following core options:</p> <ul style="list-style-type: none"> • Oracle Communications Convergent Charging Controller • Oracle Communications Voucher Management Server <p>All of the core options have the same pre-requisites. Each core option is restricted to particular services.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> • Oracle Database Enterprise Edition, Oracle Database Standard Edition, Standard Edition One or Standard Edition 2 for the Service Logic Controllers and Voucher and Wallet Servers. • Oracle Database Enterprise Edition for the Service Management System • Oracle Database EE Option: Partitioning for the Service Management System • Oracle Database EE Option: Real Application Clusters if RAC clustering is required for the Service Management System
	Oracle Communications Convergent Charging Controller	<p>Oracle Communications Convergent Charging Controller for charging session control only and for all communications sessions (prepaid and postpaid, voice, SMS and IP).</p> <p>Restrictions:</p> <p>Does not include the right to use Oracle Communications Convergent Charging Controller for rating, charging or balance management.</p> <p>Prerequisites:</p> <p>See Oracle Communications Convergent Charging Controller – All Core Options.</p> <p>Additionally, the following license must also be purchased:</p> <ul style="list-style-type: none"> • Oracle Communications Control Plan Editor <p>Inclusions:</p> <p>A license to Oracle Communications Convergent Charging Controller includes restricted-use licenses to Oracle Communications Open Service Development, Oracle Communications Subscriber Self Care, Oracle Communications Data Control Agents, Oracle Communications Voice Control Agents and Oracle Communications Message Control Agents.</p> <p>Use of Oracle Communications Open Service Development, Oracle Communications Subscriber Self Care, Oracle Communications Data Control Agents, Oracle Communications Voice Control Agents and Oracle Communications Message Control Agents is restricted to control of network sessions that are to be managed by Oracle Communications Convergent Charging Controller.</p>
	Oracle Communications Voucher Management Server	<p>Oracle Communications Convergent Charging Controller for use only for the management and redemption of Vouchers.</p>

Product	Subproduct	Licensing Description
		<p>Restrictions:</p> <p>Does not include the right to use Oracle Communications Convergent Charging Controller for rating, charging or balance management.</p> <p>Prerequisites:</p> <p>See Oracle Communications Convergent Charging Controller – All Core Options.</p> <p>Additionally, if Automatic Voucher Deletion functionality is to be used on the Service Management Server the following Database option is required:</p> <ul style="list-style-type: none"> • Oracle Database EE Option: Partitioning <p>Inclusions:</p> <p>A license to Oracle Communications Voucher Management Server includes restricted-use licenses to Oracle Communications Recharge and Voucher Management, Oracle Communications Open Service Development, Oracle Communications Subscriber Self Care, Oracle Communications Control Plan Editor, Oracle Communications Voice Control Agents and Oracle Communications Message Control Agents.</p> <p>Use of Oracle Communications Recharge and Voucher Management, Oracle Communications Open Service Development, Oracle Communications Subscriber Self Care, Oracle Communications Control Plan Editor, Oracle Communications Voice Control Agents and Oracle Communications Message Control Agents is restricted to redemption of vouchers.</p>
	Option: Oracle Communications Notification Gateway	<p>Consume Oracle Communications Advanced Billing and Revenue Management internal notifications to send SMS, USSD or Email notifications to subscribers.</p> <p>Prerequisites:</p> <p>One of the following core options must be purchased in order to license Oracle Communications Notification Gateway</p> <ul style="list-style-type: none"> • Oracle Communications Convergent Charging Controller • Oracle Communications Voucher Management Server
	Option: Oracle Communications Recharge and Voucher Management	<p>Management and redemption of vouchers, including definition and use of voucher types for voucher-less recharging.</p> <p>Prerequisites:</p> <p>One of the following core options must be purchased in order to license Oracle Communications Recharge and Voucher Management:</p> <ul style="list-style-type: none"> • Oracle Communications Convergent Charging Controller <p>If Automatic Voucher Deletion functionality is to be used on the Service Management Server the following Database option is required:</p> <ul style="list-style-type: none"> • Oracle Database EE Option: Partitioning
	Option: Oracle Communications Subscriber Self Care	<p>Text based self-care, allowing subscribers to submit self-care requests via SMS, USSD, SIP, or any other text-based self-care channel.</p> <p>This license is included as a restricted use license with Oracle Communications Convergent Charging Controller and Oracle Communications Voucher Management Server and is listed here for informational purposes.</p>

Product	Subproduct	Licensing Description
Oracle Communications Messaging Manager	Oracle Communications Messaging Manager – All Core Options	<p>IN-based messaging applications (e.g., prepaid messaging, First Delivery Attempt SMS, anti-spam).</p> <p>For any deployment of Oracle Communications Messaging Manager, the customer first has to purchase one of the following core options:</p> <ul style="list-style-type: none"> • Oracle Communications Messaging Manager • Oracle Communications Express Delivery Routing <p>All the core options have the same inclusions and pre-requisites.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> • Oracle Database Enterprise Edition, Oracle Database Standard Edition, Standard Edition One or Standard Edition 2 for the Service Logic Controllers. • Oracle Database Enterprise Edition for the Service Management System • Oracle Database EE Option: Partitioning for the Service Management System • Oracle Database EE Option: Real Application Clusters if RAC clustering is required for the Service Management System <p>Additionally, the following license must also be purchased:</p> <ul style="list-style-type: none"> • Oracle Communications Control Plan Editor • Oracle Communications Messaging Control Agents
	Oracle Communications Messaging Manager	<p>Originating, Terminating and ASP messaging, Home Routing, Protocol Conversion, Anti-Fraud, Personal Message exchange,</p> <p>Prerequisites:</p> <p>See Oracle Communications Messaging Manager – All Core Options.</p>
	Oracle Communications Express Delivery Routing	<p>Delivery of SMS notifications to the subscriber's mobile device via the MSC and allowing fall back to a SMSC for store and retry if the message cannot be delivered.</p> <p>Prerequisites:</p> <p>See Oracle Communications Messaging Manager – All Core Options.</p>
Oracle Communications Number Services Manager	Oracle Communications Number Services Manager – All Core Options	<p>IN-based number routing applications (e.g., Number Portability, Least Cost Routing, VPN).</p> <p>For any deployment of Oracle Communications Number Services Manager, the customer first has to purchase one of the following core options:</p> <ul style="list-style-type: none"> • Oracle Communications Advanced Control Services Gateway • Oracle Communications Number Portability for Charging <p>All the core options have the same inclusions and pre-requisites. Each is restricted to particular services.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> • Oracle Database Enterprise Edition, Oracle Database Standard Edition, Standard Edition One or Standard Edition 2 for the Service Logic Controllers. • Oracle Database Enterprise Edition for the Service Management System

Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> Oracle Database EE Option: Partitioning for the Service Management System Oracle Database EE Option: Real Application Clusters if RAC clustering is required for the Service Management System <p>Additionally, the following licenses must also be purchased:</p> <ul style="list-style-type: none"> Oracle Communications Control Plan Editor Oracle Communications Voice Control Agents if Voice based services are to be offered Oracle Communications Messaging Control Agents if Message based services are to be offered.
	Oracle Communications Advanced Control Services Gateway	<p>Terminating and originating number routing services, such as Freephone, Premium Line, Least Cost Routing and Virtual Private Network services.</p> <p>Prerequisites:</p> <p>See Oracle Communications Number Services Manager – All Core Options.</p>
	Oracle Communications Number Portability for Charging	<p>Number Portability services for fixed and mobile devices, including ENUM database and lookup.</p> <p>Prerequisites:</p> <p>See Oracle Communications Number Services Manager – All Core Options.</p>
Oracle Communications Control Plan Editor	Oracle Communications Control Plan Editor	<p>Graphical configuration of Session and Event service logic for all Oracle Communications Convergent Charging Controller based services.</p> <p>Prerequisites:</p> <p>One of the following core options must be purchased in order to license Oracle Communications Control Plan Editor:</p> <ul style="list-style-type: none"> Oracle Communications Convergent Charging Controller Oracle Communications Messaging Manager Oracle Communications Express Delivery Routing Oracle Communications Advanced Control Services Gateway Oracle Communications Number Portability for Charging
Oracle Communications Network Connectivity Agents	Oracle Communications Network Connectivity Agents – All Options	<p>Prerequisites:</p> <p>These agents can be purchased with any of the core products of the following three applications:</p> <p>Oracle Communications Convergent Charging Controller</p> <p>These licenses are included as restricted use licenses with Oracle Communications Convergent Charging Controller and Oracle Communications Voucher Management Server.</p> <p>Oracle Communications Messaging Manager</p> <ul style="list-style-type: none"> Oracle Communications Messaging Manager Oracle Communications Express Delivery Routing

Product	Subproduct	Licensing Description
		Oracle Communications Number Services Manager <ul style="list-style-type: none"> Oracle Communications Advanced Control Services Gateway Oracle Communications Number Portability for Charging
	Oracle Communications Voice Control Agents	Use of Oracle Communications Network Connectivity Agents to control Voice based sessions, using protocols such as CAP, INAP, SIP, ISUP, IS-41 and IS-826 Prerequisites: See Oracle Communications Network Connectivity Agents – All Options
	Oracle Communications Messaging Control Agents	Use of Oracle Communications Network Connectivity Agents to control Text Message based sessions, using protocols such as MAP, CAP, SIP, IS-41, SMPP, UCP, and SMTP. Prerequisites: See Oracle Communications Network Connectivity Agents – All Options
	Oracle Communications Data Control Agents	Use of Oracle Communications Network Connectivity Agents to control Data sessions, using protocols such as DIAMETER, RADIUS, and CAP Prerequisites: See Oracle Communications Network Connectivity Agents – All Options
	Oracle Communications Open Service Development	Use of Oracle Communications Network Connectivity Agents for SOAP based interactions, with Oracle Communications Convergent Charging Controller acting as either a client or a server. Prerequisites: See Oracle Communications Network Connectivity Agents – All Options

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The Apache Software Foundation	log4j 2.17.1	Java logging	<p>Apache License Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>This product includes software developed by The Apache Software Foundation (http://www.apache.org/).</p> <p>For a copy of the license, see Log4J.</p>
The Apache Software Foundation	Xerces 3.2.3	Runtime XML WSDL parsing	<p>Apache License Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>This product includes software developed by The Apache Software Foundation (http://www.apache.org/).</p> <p>For a copy of the license, see Apache License, Version 2.0.</p> <p>Portions of this software were originally based on the following:</p> <p>Software Copyright © 1999, IBM Corporation., http://www.ibm.com.</p>
Boost Software	Boost C++ Libraries 1.78.0	Runtime parsing libraries	<p>Boost Software License - Version 1.0 - August 17th, 2003</p> <p>For a copy of the license, see Boost Software License.</p>
Douglas C. Schmidt	ACE 7.0.6	IOR utility libraries	<p>[1]ACE(TM), [2]TAO(TM), [3]CIAO(TM), DAnCE(TM), and [4]CoSMIC(TM)</p> <p>(henceforth referred to as "DOC software") are copyrighted by</p> <p>[5]Douglas C. Schmidt and his [6]research group at [7]Washington</p> <p>University, [8]University of California, Irvine, and [9]Vanderbilt</p> <p>University, Copyright (c) 1993-2019, all rights reserved.</p> <p>For a copy of the license, see Douglas C. Schmidt License (ACE)</p>

Provider	Component(s)	Functionality	Licensing Information
Douglas C. Schmidt	TAO 7.0.6	IOR utility libraries	<p>[1]ACE(TM), [2]TAO(TM), [3]CIAO(TM), DAnCE(TM), and [4]CoSMIC(TM)</p> <p>(henceforth referred to as "DOC software") are copyrighted by</p> <p>[5]Douglas C. Schmidt and his [6]research group at [7]Washington University, [8]University of California, Irvine, and [9]Vanderbilt University, Copyright (c) 1993-2019, all rights reserved. For a copy of the license, see Douglas C. Schmidt License (TAO)</p>
Unicode, Inc	ICU 66.1	Runtime unicode and globalization libraries	<p>Copyright © 1991-2018 Unicode, Inc. All rights reserved. For a copy of the license, see International Components for Unicode License.</p>
Massachusetts Institute of Technology	C-ARES 1.17.2	Runtime DNS resolution	<p>Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see AUTHORS file.</p> <p>Copyright © 1998 Massachusetts Institute of Technology. For a copy of the license, see Massachusetts Institute of Technology License.</p>
Quality Open Software	slf4j-api 1.7.35	Simple facade or abstraction for various logging frameworks	<p>Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)</p> <p>All rights reserved. For a copy of the license, see Quality Open Software</p>
Elasticsearch	Elasticsearch OSS 7.10.2	Log processing	<p>Apache License Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>For a copy of the license, see ElasticSearch OSS</p>
Elasticsearch	Kibana OSS 7.10.2	Browser-based analytics and search dashboard for Elasticsearch	<p>Apache License Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>For a copy of the license, see Apache License, Version 2.0.</p>
Fluentd Authors	Fluentd 1.12.3	Unify the logging infrastructure	<p>Apache License Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>Copyright 2011-2018 Fluentd Authors</p> <p>For a copy of the license, see Fluentd</p>
Apache Software Foundation	kafka-clients 2.8.1	Event streaming platform	<p>Apache License Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>Apache Kafka</p> <p>Copyright 2021 The Apache Software Foundation.</p> <p>For a copy of the license, see kafka-clients</p>

Provider	Component(s)	Functionality	Licensing Information
The Prometheus Authors	Prometheus 2.27.1	Systems and service monitoring system	<p>Apache License Version 2.0, January 2004 http://www.apache.org/licenses/</p> <p>For a copy of the license, see Prometheus</p>
Eclipse Foundation	jersey-media-json-jackson 2.35	Convert Java objects to json in REST API	<p>jersey-media-json-jackson (EPL 2.0, GPL 2.0 with CPE)</p> <p>For a copy of the license, see jersey-media-json-jackson</p>
Eclipse Foundation	jersey-hk2:jar:2.35 jersey-common:jar:2.35 jakarta.ws.rs-api:jar:2.1.6 jakarta.annotation-api:jar:1.3.5 jakarta.inject:jar:2.6.1 osgi-resource-locator:jar:1.0.3 hk2-locator:jar:2.6.1 aopalliance-repackaged:jar:2.6.1 hk2-api:jar:2.6.1 hk2-utils:jar:2.6.1 javassist-3.25.0-GA.jar	REST framework that provides JAX-RS Reference Implementation	<p>jersey-inject-hk2 (org.glassfish.jersey.inject:jersey-hk2)</p> <p>Copyright (c) 2017,2021 Oracle and/or its affiliates. All rights reserved.</p> <p>For a copy of the license, see Jersey-hk2</p>
FasterXML, LLC	jackson-databind:jar:2.13.2.2	General purpose data serialization library for Java	<p>Copyright © 2008 – FasterXML. All rights reserved. -----</p> <p>This copy of Jackson JSON processor databind module is licensed under the</p> <p>Apache (Software) License, version 2.0 ("the License").</p> <p>See the License for details about distribution rights, and the</p> <p>specific rights regarding derivate works.</p> <p>You may obtain a copy of the License at:</p> <p>http://www.apache.org/licenses/LICENSE-2.0</p> <p>NOTICE FILE: ===== # Jackson JSON processor</p>

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			<p>Jackson is a high-performance, Free/Open Source JSON processing library.</p> <p>It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.</p> <p>It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.</p> <p>## Licensing</p> <p>Jackson core and extension components may be licensed under different licenses.</p> <p>To find the details that apply to this artifact see the accompanying LICENSE file.</p> <p>For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).</p> <p>## Credits</p> <p>A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.</p> <hr/> <p>For a copy of license, please see Jackson-databind</p>
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#
```

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

- Jackson 2.12.0

*** (Note that Jackson 2.10.4 was originally packaged with ES 7.10 but due to a recent vulnerability identified (<https://snyk.io/vuln/SNYK-JAVA-COMFASTERXMLJACKSONCORE-1048302>), we upgraded our version usage). ***

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=====
=====
-      Lucene 8.7.0
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`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
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- Snakeyaml 1.26

snakeyaml NOTICE

The art of simplicity is a puzzle of complexity.

Overview

[YAML](<http://yaml.org>) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

SnakeYAML features

- * a **complete** [YAML 1.1 processor](<http://yaml.org/spec/1.1/current.html>). In particular, SnakeYAML can parse all examples from the specification.
- * Unicode support including UTF-8/UTF-16 input/output.
- * high-level API for serializing and deserializing native Java objects.
- * support for all types from the [YAML types repository](<http://yaml.org/type/index.html>).
- * relatively sensible error messages.

Info

- * [Changes](<https://bitbucket.org/asomov/snakeyaml/wiki/Changes>)
- * [Documentation](<https://bitbucket.org/asomov/snakeyaml/wiki/Documentation>)

Contribute

- * Mercurial DVCS is used to dance with the [source code](<https://bitbucket.org/asomov/snakeyaml/src>).
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- t-digest 3.2

t-digest NOTICE

The code for the t-digest was originally authored by Ted Dunning. A number of small but very helpful changes have been contributed by Adrien Grand (<https://github.com/jpountz>)

- Netty 4.1.49

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- Tagsoup 1.2.1
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- Xz 1.8

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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4th party dependencies

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com.github.luben:zstd-jni (BSD 2-Clause License)

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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](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

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-----FOURTH PARTY DEPENDENCY 5 -----  
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jakarta.ws.rs-api (EPL 2.0 + GPL 2.0 with CPE)

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 jakarta.annotation-api (EPL 2.0 + GPL 2.0 with CPE)

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The project maintains the following source code repositories:

- \* <https://github.com/eclipse-ee4j/glassfish-ha-api>
- \* <https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
- \* <https://github.com/eclipse-ee4j/glassfish-shoal>
- \* <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
- \* <https://github.com/eclipse-ee4j/glassfish-jsftemplating>
- \* <https://github.com/eclipse-ee4j/glassfish-hk2-extra>
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- \* <https://github.com/eclipse-ee4j/glassfish-fighterfish>

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-----FOURTH PARTY DEPENDENCY 4 -----  
jakarta.activation-api (EDL 1.0)

## Notices for Jakarta Activation

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Project home: <https://projects.eclipse.org/projects/ee4j.jaf>

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-----FOURTH PARTY DEPENDENCY 5 -----  
jakarta.xml.bind-api (EDL 1.0)

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#### Source Code

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<https://github.com/eclipse-ee4j/jaxb-api>

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Project: <https://asm.ow2.io/>

Source: <https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-commons~~~~kw,versionexpand>  
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License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)  
Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>  
Source: <http://hg.openjdk.java.net/code-tools/jtharness/normalize.css> (3.0.2)

License: MIT  
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-----FOURTH PARTY DEPENDENCY 6 -----  
jakarta.ws.rs-api (EPL 2.0 + GPL 2.0 with CPE)

Notices for Jakarta RESTful Web Services  
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Project home: <https://projects.eclipse.org/projects/ee4j.jaxrs>  
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#### Source Code

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javaee-api (7.0)

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JUnit (4.11)

License: Common Public License 1.0  
Mockito (2.16.0)

Project: <http://site.mockito.org>

Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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-----FOURTH PARTY DEPENDENCY 7 -----

jakarta.annotation-api (EPL 2.0 + GPL 2.0 with CPE)

## # Notices for Jakarta Annotations

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## ## Source Code

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