

# Oracle® Communications

## Cloud Native Core Licensing Information User Manual



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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# 1

## Introduction

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# 2

## Licensing Information

Refer to the table below for information on:

- Description of Product Editions and Permitted Features
- Prerequisite Products
- Entitled Products and Restricted Use Licenses

| Product                                 | Sub product   | Licensing Information   |
|---|---|---|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Network Function Cloud Native Environment - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Function Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network.</p> <p>This license is mandatory and needs to be purchased with other Cloud Native Core Network Functions.</p> <p>Given license provide access to following capabilities: Cloud native platform, Operations Services Overlay (OSO), Console, Data Tier (MySQL Carrier Grade edition cluster), Service Mesh</p> <p>Network Function Cloud Native Environment needs to be ordered once per purchased entity. Network Function Cloud Native Environment is not applicable for any Network Functional features. The following list of examples are the features applicable to NFs and not to CNE: Interworking and Mediation Function (IWF) and Subscriber Location Function (SLF).</p> <p><b>Prerequisites:</b> Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core , Network Function Cloud Native Environment - per 25K Active Subscribers :</p> <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core , Network Repository Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers</li> </ul> |



| Product                                 | Sub product  | Licensing Information   |
|---|--|---|
|   |  | <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core , Service Communication Proxy - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers</li> </ul> <p><b>Entitled Products and Restricted Use Licenses:</b></p> <p>A license to Oracle Communications Cloud Native Core, Network Function Cloud Native Environment - per 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions.</p> |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers | <p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Authentication Server Function (AUSF) is responsible of the primary authentication and key agreement procedures carried out to enable mutual authentication between UE and network. It provides keying material that can be used between the UE and network in subsequently security procedures. This license is based on per 25k active subscribers perpetual.</p> <p><b>Prerequisites:</b> The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers:</p> <p>Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers</p> <p><b>Counting Mechanism:</b> Since Unified Data Management is a prerequisites for AUSF. Unified Data Management counts unique device identifiers that it has activated.</p>  |

| Product                                 | Sub product  | Licensing Information  |
|---|--|--|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Binding Support Function (BSF) provides session binding functionality, which ensures request for session reaches the relevant PCF holding the session information.</p> <p>This service:</p> <ul style="list-style-type: none"> <li>• Allows Network Function (NF) consumers to register, update and remove the binding information; and</li> <li>• Allows Network Function (NF) consumers to retrieve the binding information.</li> </ul> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> BSF counts unique device identifiers as it processes messages.</p>   |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers         | <p><b>Description:</b> This functionality provides the Right to Use the Cloud Native Policy and Charging Rules Function (cnPCRF) and Cloud Native Policy Control Function (PCF) NFs. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network. The Cloud Native Policy and Charging Rules Function (cnPCRF) allows the customer to support centralized policy management in their 4G core network.</p> <p>Overall this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time.</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> cnPCRF and PCF counts unique device identifiers as it processes messages.</p> |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers      | <p><b>Description:</b> This functionality provides the Right to Use the Cloud Native Diameter Routing Agent (cnDRA), Service Communication Proxy (SCP), Network Repository Function (NRF), and InterWorking and Mediation Function (IWF) NFs. It enables a smooth transition for operators from 4G to 5G over time.</p> <p><b>Prerequisites :</b> None</p>   |

| Product                                 | Sub product  | Licensing Information   |
|---|--|---|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Diameter Routing Agent (DRA) provides ability to route diameter messages between Network Functions (NF) in the 4G network</p> <p><b>Prerequisites:</b> The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers: Oracle Communications Common Signaling - per Signaling Unit - per Message per Second</p> |

| Product                                 | Sub product   | Licensing Information   |
|---|---|---|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The InterWorking and Mediation (IWF) Function provides Interworking and mediation function between HTTP &lt;=&gt; HTTP and HTTP &lt;=&gt; Diameter that allow access to the services and capabilities provided by network entities.</p> <p>This license is mandatory and needs to be purchased with other Cloud Native Core Network Functions. Customer must purchase a license of InterWorking and Mediation Function (IWF) for each separately purchased Network Function (NF).</p> <p>When licensed in the Routing and Selection offering, pricing includes the use of IWF for the following five network functions: Service Communication Proxy (SCP), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP), Network Exposure Function (NEF) and Network Repository Function (NRF).</p> <p>In regards to Converged Policy, a license of InterWorking and Mediation Function (IWF) needs to be purchased separately.</p> <p>InterWorking and Mediation Function (IWF) is not required for Network Function Cloud Native Environment (CNE) and Subscriber Location Function (SLF).</p> <p><b>Prerequisites:</b> The following license is prerequisite to license and use Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers:</p> <p>Any one of the Cloud Native Core network functions, except:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Network Function Cloud Native Environment, and</li> <li>• Oracle Communications Cloud Native Core, Subscriber Location Function.</li> </ul> <p><b>Counting Mechanism:</b> IWF is used for either Interworking or Mediation.</p> <p>a) Interworking use case: IWF counts unique device identifiers as it processes messages in a given calendar month.</p> <p>b) Mediation use case: the subscriber count is based on unique device identifiers as it mediates messages in a given calendar month</p> |

| Product                                 | Sub product   | Licensing Information  |
|---|---|--|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers   | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Exposure Function (NEF) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF.</p> <p>The NEF Northbound interface supports the following procedures:</p> <ul style="list-style-type: none"> <li>• Procedures for Monitoring</li> <li>• Procedures for Device Triggering</li> <li>• Procedures for resource management of Background Data Transfer</li> <li>• Procedures for Communication Pattern Parameters Provisioning</li> <li>• Procedures for Packet Flow Description Management</li> <li>• Procedures for Traffic Influence</li> </ul> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> NEF counts unique device identifiers as it processes messages</p> |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Network Repository Function - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Repository Function (NRF) supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases.</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> If SLF is deployed in addition to the NRF: the SLF counts unique device identifiers as it processes messages.</p> <p>If SLF is not deployed: the subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> <li>• SCP, if present</li> <li>• Else, a 3rd party database</li> </ul>  |

| Product                                 | Sub product  | Licensing Information   |
|---|--|---|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers   | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function (NSSF) provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services .</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> The subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> <li>• SCP, if present</li> <li>• Else, a 3rd party database</li> </ul> |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers            | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network.</p> <p><b>Prerequisites:</b> None.</p> <p><b>Counting Mechanism:</b> PCF counts unique device identifiers as it processes messages.</p>   |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core. This functionality provides the Right to Use the Cloud Native Core Policy and Charging Rules Function (cnPCRF). The cnPCRF allows the customer to support centralized policy management in their 4G core network. It includes PCRF functionality.</p> <p><b>Prerequisites:</b> None.</p> <p><b>Counting Mechanism:</b> cnPCRF counts unique device identifiers as it processes messages.</p>   |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers       | <p><b>Description:</b> Routing and Selection domain consists of six Cloud Native Core functions: Service Communication Proxy (SCP), Network Repository Function (NRF), Network Exposure Function (NEF), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP), and InterWorking and Mediation Function (IWF).</p> <p><b>Prerequisites:</b> None</p>  |

| Product                                 | Sub product  | Licensing Information  |
|---|--|--|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Security Edge Protection Proxy (SEPP) is a nontransparent proxy that supports message filtering and policing on inter-PLMN control-plane interfaces and topology hiding for the PLMN network. A SEPP function should perform the firewall role for transactions between domains. Given that the SEPP is the point where integrity protection and encryption are applied, the SEPP has visibility into each aspect of a transaction.</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> SEPP counts unique device identifiers as it processes messages.</p>  |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Service Communication Proxy - per 25K Active Subscribers    | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Service Communication Proxy (SCP) addresses introduction of 5G Service Based Architecture and the usage of HTTP/2 for signaling. Provides congestion control in cases of flooding and at the same time protect servers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure.</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> SCP counts unique device identifiers as it processes messages.</p> |

| Product                                 | Sub product   | Licensing Information  |
|---|---|--|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers | <p><b>Description:</b></p> <p>This subproduct adds the following feature to the Oracle Communications Cloud Native Core.</p> <p>The Subscriber Location Function (SLF) is an entity of 5G network which it is used to identify a subscriber to a specific network function. This license is based on per 25k active subscribers perpetual.</p> <p><b>Prerequisites:</b></p> <p>The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers</li> </ul> <p><b>Counting Mechanism:</b> SLF counts unique device identifiers as it processes messages.</p>   |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers     | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unified Data Management Function (UDM) is a functional entity that supports access to the data storage. It offers services to Access and Mobility Management Function (AMF), Session Management Function (SMF), Short Message Service Function (SMSF), Network Exposure Function (NEF), and Authentication Server Function (AUSF). The services include Subscription data storage, Context data management service, Authentication service in collaboration with AUSF. Subscription data management includes accessing the subscription data in the Unified Data Repository (UDR), delivering relevant data to the Network Functions (NFs) serving the UE (AMF, SMF) and updating the UE location and serving nodes (e.g. AMF) in the UDR. This license is based on per 25k active subscribers perpetual.</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> UDM counts unique device identifiers that it has activated</p> |



| Product                                 | Sub product  | Licensing Information  |
|---|--|--|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers            | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unified Data Repository (UDR) is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR are collectively known as application front ends.</p> <p><b>Prerequisites:</b> None</p> <p><b>Counting Mechanism:</b> UDR counts unique device identifiers that it has activated</p>  |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers | <p><b>Description:</b> This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unstructured Data Storage Function (UDSF) is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on per 25k active subscribers perpetual.</p> <p><b>Prerequisites:</b> The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function – per 25K Active Subscribers:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers</li> </ul> <p><b>Counting Mechanism:</b> Since UDR is a prerequisite for UDSF. UDR counts unique device identifiers that it has activated.</p> |

| Product                                 | Sub product   | Licensing Information   |
|---|---|---|
| Oracle Communications Cloud Native Core | Oracle Communications Common Signaling, Automated Test Tools and Scripts - Per Node                   | <p><b>Description:</b> The sub-product adds the following features to the Oracle Communications Cloud Native Core Network Functions.</p> <p>The Automated Test Tools and Scripts license provides tools and scripts for functional and light performance testing needs in lab environment and is licensed to only be used on Test/lab platforms.</p> <p>From a license perspective, this SKU is applicable only to Network Function SKUs and not to the features.</p> <p><i>License quantity requirement is based on number of network functions (NFs) and number of system under testing (SUT). It can be calculated by multiplying number of network functions (NFs) and number of system under testing (SUT) .</i></p> <p><b>Prerequisites:</b> The following licenses are prerequisite to license and use Oracle Communications Common Signaling, Automated Test Tools and Scripts – per Node</p> <p>Any Oracle Communications Cloud Native Core Network Function, except:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Network Function Cloud Native Environment – 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Interworking and Mediation Function – 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers</li> </ul> |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Converged Policy Feature Pack A - per 25K Active Subscribers | <p><b>Description:</b> This sub-product adds optional features to Converged Policy. Refer to the Cloud Native Core release notes for more details on feature content.</p> <p><b>Prerequisites:</b> Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack A - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> <li>• Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers</li> <li>• Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers</li> </ul>  |

| Product                                 | Sub product   | Licensing Information   |
|---|---|---|
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - per 25K Active Subscribers  | <p><b>Description:</b> This sub-product adds optional features to Service Communication Proxy. Refer to the Cloud Native Core release notes for more details on feature content.</p> <p><b>Prerequisites:</b> The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> <li>Oracle Communications Cloud Native Core, Service Communication Proxy – per 25K Active Subscribers</li> </ul>    |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - per 25K Active Subscribers | <p><b>Description:</b> This sub-product adds optional features to Subscriber Location Function. Refer to the Cloud Native Core release notes for more details on feature content.</p> <p><b>Prerequisites:</b> The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> <li>Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers</li> </ul> |
| Oracle Communications Cloud Native Core | Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - per 25K Active Subscribers  | <p><b>Description:</b> This sub-product adds optional features to Network Repository Function. Refer to the Cloud Native Core release notes for more details on feature content.</p> <p><b>Prerequisites:</b> The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> <li>Oracle Communications Cloud Native Core, Network Repository Function – per 25K Active Subscribers</li> </ul>    |

 **Note:**

**25K Active Subscribers:** It is defined as twenty-five thousand unique subscribers provisioned and activated or processed by the network function in a calendar month. A Subscriber is defined as (a) unique device identifier processed by the network function, (b) unique device identifier processed by a defined, external network function, (c) active entities in the subscriber database. The total number of active subscribers shall be equal to all applicable types of subscribers listed above, as defined for the network function.

 **Note:**

**NB-IoT:** Programs licensed under NB-IoT are specifically for processing traffic related to "Internet of Things" (IOT) or "Machine to Machine" (M2M) devices (including, by way of example, consumer appliances such as refrigerators, utility meters, etc.), and you may not use such programs for processing traffic related to wireless services, real-time services, broadband services, wireline telephone or data subscription services.

 **Note:**

MySQL Cluster Carrier Grade Edition needs to be downloaded separately from the Oracle Software Delivery Cloud as it is not a part of the Cloud Native Core download package. With the purchase of Oracle Communication Cloud Native Core, Network Function Cloud Native Environment, the customer is entitled to a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions only.

- For MySQL license manual, click [here](#).
- For MySQL NDB Cluster licensing manual, click [here](#).

 **Note:**

Oracle Linux, used by all the sub-products of Oracle Communications Cloud Native Core, needs to be downloaded separately from the Oracle Software Delivery Cloud as Oracle Linux is not a part of the Cloud Native Core download package. For more information on licensing, refer to the [Oracle Linux End-User Licensing Agreement](#).

 **Note:**

Oracle Communication Cloud Native Core plans to use both versions of Oracle Coherence (Community Edition [CE] and Enterprise edition [EE]). For more information on their licensing, please refer to the license document/release notes:

- [Oracle Coherence Enterprise Edition](#)
- [Oracle Coherence Community Edition](#)

# 3

## Third-Party Notices and/or Licenses

### Commercial Software

Commercial software products or components distributed in Oracle Communications Cloud Native Core are identified in the following table along with the applicable licensing information.

| Provider | Component(s) | Licensing Information |
|----------|--------------|-----------------------|
| N/A      | N/A          | N/A                   |

### Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Communications Cloud Native Core are identified in the following sections along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

The sections below identify the open source components used by each Oracle Communications Cloud Native Core subproduct. The licensing information can be found in section **Cloud Native Core Licensing Information**.

#### Cloud Native Environment 1.8.0 Components

The following is the list of components for Cloud Native Environment 1.8.0:

- helm 3.1.2
- Kubespray 2.14.0
- Terraform 0.12.23

#### Binding Support Function 1.8.0 Components

The following is the list of components for Binding Support Function 1.8.0:

- akka-cluster-sharding 2.6.7
- AspectJ 1.9.5
- Avro 1.10.0
- Brave 5.11.2
- brave-opentracing 0.36.2
- caffeine 2.8.5
- Commons Beanutils 1.9.4

- Commons Codec 1.14
- Commons CSV 1.8
- Commons IO 2.7
- Commons Lang 3.10
- Commons Pool 2.8.0
- DropWizard Metrics 4.1.10.1
- fastjson 1.2.73
- GSON 2.8.6
- HikariCP 3.4.5
- HSQLDB 2.5.1
- HttpCore 4.4.13
- HttpComponents HttpClient 4.5.13
- influxdb-java 2.19
- jackson-annotations 2.11.0
- jackson-annotations 2.11.1
- jackson-core 2.11.0
- jackson-core 2.11.1
- jackson-databind 2.11.0
- jackson-databind 2.11.1
- jackson-datatype-joda 2.11.0
- jackson-datatype-jsr310 2.11.0
- jackson-datatype-jsr310 2.11.1
- Java DogStatsD Client 2.10.2
- Java Uuid Generator 4.0.1
- jersey-client 2.31
- jersey-core 2.31
- jersey-hk2 2.31
- jersey-media-json-binding 2.31
- Jetty 9.4.30.v20200611
- jetty-reactive-httpclient 1.1.2
- jetty-reactive-httpclient 1.1.4
- JLine 3.15.0
- jsr305 3.0.2
- Kubernetes Java Client 8.0.2
- Log4J 2.13.3
- Logback 1.3.0-alpha5
- Logstash Logback Encoder 6.4

- Lombok 1.18.12
- Micrometer 1.5.2
- MyBatis Spring Boot Starter 2.1.3
- OkHttp 4.7.2
- OpenTracing API for Java 0.33.0
- OpenTracing Spring Jaeger Starter 3.1.2
- OpenTracing Spring Jaeger Web Starter 3.0.1
- Prometheus JVM Client Servlet 0.9.0
- Reactor Core 3.3.7.RELEASE
- Simple Logging Facade for Java (SLF4J) 1.7.30
- Spring Boot 2.3.1.RELEASE
- Spring Cloud Contract 2.2.3.RELEASE
- spring-cloud-stream 3.0.6.RELEASE
- Springfox 3.0.0
- spring-kafka 2.5.3.RELEASE
- WireMock 2.27.1
- XStream 1.4.12
- Zipkin 2.21.2
- zipkin-reporter-java 2.15.0

## Cloud Native Core Console 1.6.0 Components

The following is the list of components for Cloud Native Core Console 1.6.0:

- AspectJ 1.9.5
- bucket4j 4.8.0
- Commons Beanutils 1.9.4
- Commons Codec 1.14
- Commons IO 2.7
- DropWizard Metrics 4.1.10.1
- GSON 2.8.6
- Guava 30.0-jre
- Hazelcast 3.12.5
- Hazelcast Discovery Plugin for Kubernetes 2.1
- HikariCP 3.4.5
- HttpComponents HttpClient 4.5.13
- jackson-annotations 2.11.1
- jackson-core 2.11.1
- jackson-databind 2.11.1

- jackson-datatype-joda 2.11.0
- jackson-datatype-jsr310 2.11.1
- JCache Reference Implementation 1.1.1
- jersey-client 2.31
- jersey-core 2.31
- jersey-hk2 2.31
- Jetty 9.4.27.v20200227
- jetty-reactive-httpclient 1.1.4
- jjwt 0.10.7
- jsr305 3.0.2
- Keycloak 10.0.2
- Kubernetes Java Client 8.0.2
- Log4J 2.13.1
- Log4J 2.13.3
- Lombok 1.18.12
- Micrometer 1.5.2
- Micrometer Registry Prometheus 1.3.6
- netty 4.1.50.Final
- OpenTracing API for Java 0.33.0
- OpenTracing Spring Jaeger Starter 3.1.2
- OpenTracing Spring Jaeger Web Starter 3.0.1
- reactor-netty 0.9.5
- Simple Logging Facade for Java (SLF4J) 1.7.30
- Spring Cloud Starter Gateway 2.2.3
- Spring Boot 2.3.4.RELEASE
- spring-boot-starter-oauth2-client 2.2.4.RELEASE
- spring-boot-starter-oauth2-resource-server 2.2.4.RELEASE
- spring-cloud-starter-kubernetes-config 1.1.2
- Springfox 3.0.0
- springfox-swagger-ui 3.0.0

## Diameter Routing Agent 1.6.0 Components

The following is the list of components for Diameter Routing Agent 1.6.0:

- Guava 28.1
- HttpClient 4.5.7
- jackson-core 2.10.0
- JSON-Java 20180813



- Kubernetes Java Client library 4.0.0
- Micrometer 1.1.4
- Spring Boot 2.2.4.RELEASE
- spring-boot-starter-actuator 2.2.4.RELEASE
- spring-boot-starter-log4j2 2.2.4.RELEASE
- spring-boot-starter-test 2.2.4.RELEASE
- spring-boot-starter-web 2.2.4

## InterWorking and Mediation Function 1.5.0 Components

The following is the list of components for InterWorking and Mediation Function 1.5.0:

- dom4j 2.1.3
- Drools 7.32.0.Final
- jackson-databind 2.10.2
- Micrometer 1.1.4
- OkHttp 4.2.2
- OpenTracing Spring Jaeger Web Starter 2.0.3
- Spring Boot 2.2.4.RELEASE
- spring-boot-autoconfigure 2.2.4
- spring-boot-starter-data-jpa 2.2.4.RELEASE
- spring-boot-starter-web 2.2.4.RELEASE

## Network Exposure Function 1.2.0 Components

The following is the list of components for Network Exposure Function 1.2.0:

- Guava 27.0.1
- HSQLDB 2.4.1
- HttpClient 4.5.7
- jackson-datatype-joda 2.9.6
- JavaScript Extension Toolkit (JET) 5.1.0
- Kong 1.0.3
- Micrometer 1.0.5
- Nginx 1.14.2
- OpenTracing Spring Jaeger Starter 0.1.4
- OpenTracing Spring Web 0.3.2
- SLF4J-1.7.25
- Spring Boot 2.1.2
- Springfox 2.9.2

## Network Repository Function 1.11.0 Components

The following is the list of components for Network Repository Function 1.11.0:

- bucket4j 4.10.0
- Commons Beanutils 1.9.4
- Commons IO 2.8.0
- dnsjava 3.2.2
- fastjson 1.2.73
- Flask 1.1.2
- GSON 2.8.6
- Guava 30.0-jre
- gunicorn 20.0.4
- Hazelcast 4.0.2
- Hazelcast Discovery Plugin for Kubernetes 2.1
- HttpComponents HttpClient 4.5.13
- ipaddress 5.2.1
- jackson-datatype-joda 2.11.0
- JCache Reference Implementation 1.1.1
- jersey-client 2.31
- jersey-hk2 2.31
- jersey-media-json-binding 2.31
- Jetty 9.4.30.v20200611
- jetty-reactive-httpclient 1.1.2
- jetty-reactive-httpclient 1.1.4
- jjwt 0.10.7
- json-schema-validator 1.0.43
- kotlin-stdlib 1.4.0
- Kubernetes Java Client 8.0.2
- Kubernetes Python Client 11.0.0
- Log4J 2.13.1
- Log4J 2.13.3
- Logback 1.3.0-alpha5
- Lombok 1.18.12
- Micrometer 1.5.1
- netty 4.1.50.Final
- OkHttp 4.7.2
- OpenTracing Spring Jaeger Starter 3.1.2

- OpenTracing Spring Jaeger Web Starter 2.0.3
- OpenTracing Spring Jaeger Web Starter 3.0.1
- PyMySQL 1.0.2
- Reactor Core 3.3.7.RELEASE
- reactor-netty 0.9.8
- reactor-netty 0.9.9.RELEASE
- Spring Boot 2.3.1.RELEASE
- Spring Boot 2.3.4.RELEASE
- Spring Cloud Starter Gateway 2.2.3
- spring-boot-starter-oauth2-resource-server 2.2.4.RELEASE
- spring-boot-starter-undertow 2.3.3.RELEASE
- spring-cloud-starter-kubernetes 1.1.2
- spring-cloud-starter-kubernetes-config 1.1.2
- Springfox 3.0.0
- springfox-swagger2 3.0.0
- springfox-swagger-ui 3.0.0

## Network Slice Selection Function 1.5.0 Components

The following is the list of components for Network Slice Selection Function 1.5.0:

- jackson-annotations 2.10.2
- jackson-core 2.10.2
- jackson-databind 2.10.2
- Kubernetes Java Client 7.0.0
- Micrometer 1.5.1
- OkHttp 4.7.2
- OpenTracing Spring Jaeger Web Starter 3.0.1
- OWASP Dependency Check 5.2.4
- jjwt 0.10.7
- Spring Boot 2.3.4.RELEASE
- spring-boot-starter-actuator 2.3.4
- spring-boot-starter-data-jpa 2.3.4
- spring-boot-starter-test 2.3.4.RELEASE
- spring-boot-starter-undertow 2.3.4
- spring-boot-starter-web 2.3.4

## Cloud Native Core Policy 1.11.0 Components

The following is the list of components for Cloud Native Core Policy 1.11.0:

- akka-cluster-sharding 2.6.7
- AspectJ 1.9.5
- Avro 1.10.0
- Brave 5.11.2
- brave-opentracing 0.36.2
- caffeine 2.8.5
- Commons Beanutils 1.9.4
- Commons Codec 1.14
- Commons CSV 1.8
- Commons IO 2.7
- Commons Lang 3.10
- Commons Pool 2.8.0
- DropWizard Metrics 4.1.10.1
- fastjson 1.2.73
- GSON 2.8.6
- Guava 29.0
- HikariCP 3.4.5
- HSQLDB 2.5.1
- HttpComponents HttpClient 4.5.13
- HttpCore 4.4.14
- influxdb-java 2.19
- jackson-annotations 2.11.1
- jackson-core 2.11.1
- jackson-databind 2.11.1
- jackson-datatype-joda 2.11.0
- jackson-datatype-jsr310 2.11.1
- Java DogStatsD Client 2.10.2
- Java Uuid Generator 4.0.1
- jersey-client 2.31
- jersey-core 2.31
- jersey-hk2 2.31
- jersey-media-json-binding 2.31
- Jetty 9.4.30.v20200611
- jetty-reactive-httpclient 1.1.4
- JLine 3.15.0
- jsr305 3.0.2
- Kubernetes Java Client 8.0.2

- Log4J 2.13.3
- Logback 1.3.0-alpha5
- Logstash Logback Encoder 6.4
- Lombok 1.18.12
- Micrometer 1.5.2
- MyBatis Spring Boot Starter 2.1.3
- OkHttp 4.7.2
- OpenTracing API for Java 0.33.0
- OpenTracing Spring Jaeger Starter 3.1.2
- OpenTracing Spring Jaeger Web Starter 3.0.1
- Prometheus JVM Client Servlet 0.9.0
- Reactor Core 3.3.7.RELEASE
- Simple Logging Facade for Java (SLF4J) 1.7.30
- Spring Boot 2.3.1.RELEASE
- Spring Cloud Contract 2.2.3.RELEASE
- spring-cloud-stream 3.0.6.RELEASE
- Springfox 3.0.0
- Spring Framework 5.2.12.RELEASE
- spring-kafka 2.5.3.RELEASE
- WireMock 2.27.1
- XStream 1.4.12
- Zipkin 2.21.2
- zipkin-reporter-java 2.15.0

## Security Edge Protection Proxy 1.4.0 Components

The following is the list of components for Security Edge Protection Proxy 1.4.0:

- Commons-Lang 3.9
- jackson-annotations 2.10.2
- jackson-core 2.10.2
- jackson-databind 2.10.2
- jackson-dataformat-yaml 2.10.2
- Kubernetes Java Client 7.0.0
- Micrometer 1.5.1
- Nimbus JOSE+JWT 8.8
- OkHttp 4.2.7
- Spring Boot 2.3.1 RELEASE

## Service Communication Proxy 1.11.0 Components

The following is the list of components for Service Communication Proxy 1.11.0:

- bucket4j 4.10.0
- HttpComponents HttpClient 4.5.12
- ipaddress 5.2.1
- jackson-databind 2.11.2
- jackson-dataformat-yaml 2.11.2
- JCache Reference Implementation 1.1.1
- Jetty 9.4.27.v20200227
- jetty-reactive-httpclient 1.1.4
- JSON-Java 20200518
- json-patch 1.12
- Kubernetes Java Client 8.0.2
- Micrometer Registry Prometheus 1.5.1
- OkHttp 4.7.2
- OpenTracing Spring Jaeger Web Starter 2.0.3
- reactor-netty 0.9.9
- Spring Boot 2.3.4.RELEASE
- Spring Retry 1.2.5.RELEASE
- spring-boot-starter-oauth2-client 2.2.4.RELEASE
- spring-boot-starter-oauth2-resource-server 2.2.4.RELEASE
- spring-cloud-starter-kubernetes-config 1.1.2
- springfox-boot-starter 3.0.0
- springfox-swagger2 3.0.0
- springfox-swagger-ui 3.0.0

## Unified Data Management 1.1.0 Components

The following is the list of components for Unified Data Management 1.1.0:

- Commons IO 2.6
- HttpClient 4.5.10
- Httpclient 4.5.7
- jackson-databind 2.10.2
- JSON Schema 1.12.1
- JSON-Java 20190722
- JsonPath 2.4.0
- Kubernetes Java Client library 4.0.0

- Kubernetes Java Client library 7.0.0
- Micrometer 1.1.4
- OkHttp 4.2.2
- Spring Boot 2.2.4.RELEASE
- spring-boot-starter 2.2.4
- spring-boot-starter-actuator 2.2.4.RELEASE
- spring-boot-starter-log4j2 2.2.4.RELEASE
- spring-boot-starter-test 2.2.4.RELEASE
- spring-boot-starter-undertow 2.2.4.RELEASE
- spring-boot-starter-web 2.2.4.RELEASE
- Springfox 2.9.2

## Unified Data Repository 1.11.0 Components

The following is the list of components for Unified Data Repository 1.11.0:

- Commons Beanutils 1.9.4
- Commons IO 2.8
- Commons Text 1.9
- CXF 3.4.0
- Everit JSON Schema 1.12.1
- fastjson 1.2.73
- Guava 30.0
- HttpComponents
- HttpClient 4.5.13
- jackson-core 2.11.2
- jackson-databind 2.11.2
- JSON-Java 20200518
- Kubernetes Java Client 8.0.2
- Micrometer 1.5.1
- OkHttp 4.7.2
- OpenTracing Spring Jaeger Starter 3.1.1
- Spring Batch 4.2.4.RELEASE
- Spring Boot 2.3.4
- Springfox 3.0.0
- Spring Integration File 5.2.4.RELEASE

## Cloud Native Core Licensing Information

**Table 3-1 Cloud Native Core Licensing Information**

| <b>Provider</b> | <b>Component (s)</b>           | <b>Licensing Information</b>               |
|-----------------|--------------------------------|--|
| Apache 2.0      | akka-cluster-sharding<br>2.6.7 | APACHE 2.0 -See <a href="#">Appendix E</a> |



Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider      | Component (s)   | Licensing Information  |
|---------------|-----------------|--|
| Ansible, Inc. | Ansible 2.7.9-1 | <p>Copyright: (c) 2012-2018, Ansible Project</p> <p>Copyright: (c) 2014, James Tanner &lt;tanner.jc@gmail.com&gt;</p> <p>Copyright: (c) 2012-2014, Michael DeHaan &lt;michael.dehaan@gmail.com&gt;</p> <p>Copyright (c) 2015-2017 Toshio Kuratomi &lt;tkuratomi@ansible.com&gt;</p> <p>Copyright (c) 2017 Jon Meran &lt;jonathan.meran@sonos.com&gt;</p> <p>Copyright: (c) 2018, Aaron Smith &lt;ajsmith10381@gmail.com&gt;</p> <p>Copyright: (c) 2018, Rob White (@wimnat)</p> <p>Copyright (c) 2018 Dennis Conrad for Sainsbury's</p> <p>Copyright (c) 2016-2018 Loic BLOT &lt;loic.blot@unix-experience.fr&gt;</p> <p>Copyright (c) 2017-2018 Will Thames</p> <p>Copyright (c) 2015 Mike Mochan</p> <p>Copyright: (c) 2018, Yaakov Kuperman &lt;ykuperman@gmail.com&gt;</p> <p>Copyright (c) 2016, Pierre Jodouin &lt;pjodouin@virtualcomputing.solutions&gt;</p> <p>Copyright (c) 2017, 2018 Michael De La Rue</p> <p>Copyright 2014 Jens Carl, Hothead Games Inc.</p> <p>Copyright (C) 2015 Tony Lastowka &lt;tlastowka at gmail dot com&gt;</p> <p>Copyright (c) 2016-2017 Julien Stroheker, &lt;juliens@microsoft.com&gt;</p> <p>Copyright (c) 2016-2018 Sertac Ozercan, &lt;seozerca@microsoft.com&gt;</p> <p>Copyright (c) 2017-2018 Yuwei Zhou, &lt;yuwzho@microsoft.com&gt;</p> <p>Copyright (c) 2017-2018 Zim Kalinowski, &lt;zikalino@microsoft.com&gt;</p> <p>Copyright (c) 2018 Yunge Zhu, &lt;yungez@microsoft.com&gt;</p> <p>Copyright (c) 2017 Yawei Wang, &lt;yaweiw@microsoft.com&gt;</p> <p>Copyright (c) 2017 Obezimnaka Boms, &lt;t-ozboms@microsoft.com&gt;</p> <p>Copyright (c) 2016 Thomas Stringer, &lt;tomstr@microsoft.com&gt;</p> <p>Copyright (c) 2016-2017 Bruno Medina Bolanos Cacho &lt;bruno.medina@microsoft.com&gt;</p> <p>Copyright (c) 2016-2018 Matt Davis, &lt;mdavis@ansible.com&gt;</p> |

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| Provider | Component (s) | Licensing Information   |
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|          |               | <p>Copyright (c) 2018 Hai Cao, &lt;thaicao@microsoft.com&gt;, Yunge Zhu &lt;yungez@microsoft.com&gt;</p> <p>Copyright (c) 2018 Gustavo Muniz do Carmo &lt;gustavo@esign.com.br&gt;</p> <p>Copyright (c) 2018 Zim Kalinowski &lt;zikalino@microsoft.com&gt;</p> <p>Copyright (c) 2015 CenturyLink</p> <p>Copyright: (c) 2015-2018, René Moser &lt;mail@renemoser.net&gt;</p> <p>Copyright (c) 2015, Darren Worrall &lt;darren@iweb.co.uk&gt;</p> <p>Copyright (c) 2017, David Passante (@dpassante)</p> <p>Copyright: (c) 2017-2018, Abhijeet Kasurde &lt;akasurde@redhat.com&gt;</p> <p>Copyright (c) 2016 Dimension Data</p> <p>Copyright 2016-2018 Red Hat   Ansible</p> <p>Copyright 2017 Red Hat   Ansible, Alex Grönholm &lt;alex.gronholm@nextday.fi&gt;</p> <p>Copyright: (c) 2013, Cove Schneider</p> <p>Copyright: (c) 2014, Joshua Conner &lt;joshua.conner@gmail.com&gt;</p> <p>Copyright: (c) 2014, Pavel Antonov &lt;antonov@adwz.ru&gt;</p> <p>Copyright (C) 2015 CallFire Inc.</p> <p>Copyright 2013-2018 Google Inc.</p> <p>Copyright (c) 2018, Simon Weald &lt;ansible@simonweald.com&gt;</p> <p>Copyright: (c) 2013, Vincent Van der Kussen &lt;vincent at vanderkussen.org&gt;</p> <p>Copyright: (c) 2007, 2018 Red Hat, Inc</p> <p>Copyright 2018 www.privaz.io Valletech AB</p> <p>Copyright (c) 2014-2015 Hewlett-Packard Development Company, L.P.</p> <p>Copyright (c) 2016-2018 Catalyst IT Ltd.</p> <p>Copyright (c) 2015-2018 IBM</p> <p>Copyright (c) 2013, Benno Joy &lt;benno@ansible.com&gt;</p> <p>Copyright (c) 2013, John Dewey &lt;john@dewey.ws&gt;</p> <p>Copyright (c) 2016 Hewlett-Packard Enterprise Corporation</p> <p>Copyright: (c) 2017, VEXXHOST, Inc.</p> <p>Copyright 2016 Sam Yaple</p> <p>Copyright (c) 2018 Catalyst Cloud Ltd.</p> |

Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information   |
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

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|          |               | <p>terms of <a href="http://asm.ow2.org/license.html">http://asm.ow2.org/license.html</a><br/>           org.ow2.asm:asm-commons<br/>           org.ow2.asm:asm<br/>           -----<br/>           Apache<br/>           The following artifacts are ASL2 licensed.<br/>           org.apache.taglibs:taglibs-standard-spec<br/>           org.apache.taglibs:taglibs-standard-impl<br/>           -----<br/>           MortBay<br/>           The following artifacts are ASL2 licensed.<br/>           Based on selected classes from<br/>           following Apache Tomcat jars, all ASL2<br/>           licensed.<br/>           org.mortbay.jasper:apache-jsp<br/>           org.apache.tomcat:tomcat-jasper<br/>           org.apache.tomcat:tomcat-juli<br/>           org.apache.tomcat:tomcat-jsp-api<br/>           org.apache.tomcat:tomcat-el-api<br/>           org.apache.tomcat:tomcat-jasper-el<br/>           org.apache.tomcat:tomcat-api<br/>           org.apache.tomcat:tomcat-util-scan<br/>           org.apache.tomcat:tomcat-util<br/>           org.mortbay.jasper:apache-el<br/>           org.apache.tomcat:tomcat-jasper-el<br/>           org.apache.tomcat:tomcat-el-api<br/>           -----<br/>           Mortbay<br/>           The following artifacts are CDDL + GPLv2 with<br/>           classpath exception.<br/> <a href="https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html">https://glassfish.dev.java.net/nonav/public/<br/>           CDDL+GPL.html</a><br/>           org.eclipse.jetty.toolchain:jetty-schemas<br/>           -----<br/>           Assorted<br/>           The UnixCrypt.java code implements the one<br/>           way cryptography used by<br/>           Unix systems for simple password protection.<br/>           Copyright 1996 Aki Yoshida,<br/>           modified April 2001 by Iris Van den Broeke,<br/>           Daniel Deville.</p> |

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**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

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|          |               | LICENSE: Apache<br>2.0 <a href="https://github.com/jwoschitz/jcstress-examples/blob/master/LICENSE">https://github.com/jwoschitz/jcstress-examples/blob/master/LICENSE</a> |

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| Coda Hale | DropWizard Metrics 4.1.10.1 | <p>dropwizard-metrics 4.0.5<br/>                     COPYRIGHT: Copyright 2010-2013<br/>                     Coda Hale and Yammer, Inc., 2014-2017<br/>                     Dropwizard Team<br/>                     LICENSE:Apache 2.0<br/>                     APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>=====</p> <p>Modules: docs<br/>                     metrics-bom<br/>                     metrics-annotation<br/>                     metrics-benchmarks<br/>                     metrics-core<br/>                     metrics-healthchecks<br/>                     metrics-ehcache<br/>                     metrics-graphite<br/>                     metrics-httpclient<br/>                     metrics-httpasyncclient<br/>                     metrics-jcache<br/>                     metrics-jdbi<br/>                     metrics-jdbi3<br/>                     metrics-jersey2<br/>                     metrics-jetty9<br/>                     metrics-json<br/>                     metrics-jvm<br/>                     metrics-log4j2<br/>                     metrics-logback<br/>                     metrics-servlet<br/>                     metrics-servlets<br/>                     metrics-jcstress<br/>                     metrics-jmx</p> <p>=====</p> <p>Notice File:<br/>                     This product includes code derived from<br/>                     the JSR-166 project (ThreadLocalRandom,<br/>                     Striped64, LongAdder),<br/>                     which was released with the following<br/>                     comments:<br/>                     Written by Doug Lea with assistance from<br/>                     members of JCP JSR-166 Expert Group and<br/>                     released to the public domain,<br/>                     as explained at <a href="http://creativecommons.org/publicdomain/zero/1.0/">http://creativecommons.org/<br/>                     publicdomain/zero/1.0/</a></p> <p>=====</p> |

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| Provider | Component (s) | Licensing Information   |
|----------|---------------|---|
|          |               | <p>HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.</p> <p>* java.sun.security.ssl</p> <p>These artifacts replace/modify OpenJDK classes.</p> <p>The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.</p> <p><a href="http://openjdk.java.net/legal/gplv2+ce.html">http://openjdk.java.net/legal/gplv2+ce.html</a></p> <p>----- OW2</p> <p>The following artifacts are licensed by the OW2 Foundation according to the terms of <a href="http://asm.ow2.org/license.html">http://asm.ow2.org/license.html</a></p> <p>org.ow2.asm:asm-commons<br/>org.ow2.asm:asm</p> <p>-----</p> <p>Apache</p> <p>The following artifacts are ASL2 licensed.</p> <p>org.apache.taglibs:taglibs-standard-spec<br/>org.apache.taglibs:taglibs-standard-impl</p> <p>-----</p> <p>MortBay</p> <p>The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.</p> <p>org.mortbay.jasper:apache-jsp<br/>org.apache.tomcat:tomcat-jasper<br/>org.apache.tomcat:tomcat-juli<br/>org.apache.tomcat:tomcat-jsp-api<br/>org.apache.tomcat:tomcat-el-api<br/>org.apache.tomcat:tomcat-jasper-el<br/>org.apache.tomcat:tomcat-api<br/>org.apache.tomcat:tomcat-util-scan<br/>org.apache.tomcat:tomcat-util<br/>org.mortbay.jasper:apache-el<br/>org.apache.tomcat:tomcat-jasper-el<br/>org.apache.tomcat:tomcat-el-api</p> <p>-----</p> <p>Mortbay The following artifacts are CDDL + GPLv2 with classpath exception.</p> <p><a href="https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html">https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html</a></p> <p>org.eclipse.jetty.toolchain:jetty-schemas</p> |

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| Elasticsearch | Elasticsearch - OSS<br>7.6.1 | <p>APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>-</p> <p>NOTICE.txt</p> <p>-----</p> <p>-</p> <p>Elasticsearch Copyright 2009-2018<br/>Elasticsearch</p> <p>This product includes software developed by<br/>The Apache Software Foundation (<a href="http://www.apache.org/">http://www.apache.org/</a>).</p> <p>This product includes software developed by<br/>Joda.org (<a href="http://www.joda.org/">http://www.joda.org/</a>).</p> |

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| Kubernetes | Helm 2.9.1    | <p>APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>----- Fourth Party dependencies: Package: cloud.google.com/go URL: https://code.google.com/go/cloud/googleapis Version: 3b1ae45394a234c385be014e9a488f2bb6eef821 Person: Google APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>----- Package: github.com/aokoli/goutils URL: https://github.com/aokoli/goutils Version: 9c37978a95bd5c709a15883b6242714ea6709e64 Person: @aokoli [Alex ] APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>----- Package: github.com/asaskevich/govalidator URL: https://github.com/asaskevich/govalidator Version: 7664702784775e51966f0885f5cd27435916517b Person: @asaskevich [Alex Saskevich] Copyright (c) 2014 Alex Saskevich MIT - See <a href="#">Appendix G</a></p> <p>----- Package: github.com/aws/aws-sdk-go URL: https://github.com/aws/aws-sdk-go Version: 760741802ad40f49ae9fc4a69ef6706d2527d62e Person: @aws [Amazon Web Services] APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>----- Package: github.com/Azure/go-ansiterm URL: https://github.com/Azure/go-ansiterm Version: 19f72df4d05d31cbe1c56bfc8045c96babff6c7e Person: @Azure [Microsoft Azure] Copyright (c) 2015 Microsoft Corporation MIT - See <a href="#">Appendix G</a></p> <p>----- Package: github.com/Azure/go-autorest URL: https://github.com/Azure/go-autorest Version: e14a70c556c8e0db173358d1a903dca345a8e75e Person: @Azure [Microsoft Azure] APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>----- Package: github.com/beorn7/perks URL: https://github.com/beorn7/perks Version: 3ac7bf7a47d159a033b107610db8a1b6575507a4 Person: @beorn7 [Björn Rabenstein] Copyright (C) 2013 Blake Mizerany MIT - See <a href="#">Appendix G</a></p> <p>----- Package: github.com/chai2010/gettext-go URL: https://github.com/chai2010/gettext-go Version: bf70f2a70fb1b1f36d90d671a72795984eab0fc</p> |



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| Provider | Component (s) | Licensing Information   |
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|          |               | <p>nacl/box (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/nacl/box">https://godoc.org/golang.org/x/crypto/nacl/box</a><br/> nacl/secretbox (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/nacl/secretbox">https://godoc.org/golang.org/x/crypto/nacl/secretbox</a><br/> nacl/sign (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/nacl/sign">https://godoc.org/golang.org/x/crypto/nacl/sign</a><br/> ocsp (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ocsp">https://godoc.org/golang.org/x/crypto/ocsp</a><br/> openpgp (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp">https://godoc.org/golang.org/x/crypto/openpgp</a><br/> openpgp/armor (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/armor">https://godoc.org/golang.org/x/crypto/openpgp/armor</a><br/> openpgp/clearsign (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/clearsign">https://godoc.org/golang.org/x/crypto/openpgp/clearsign</a><br/> openpgp/clearsign (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/clearsign">https://godoc.org/golang.org/x/crypto/openpgp/clearsign</a><br/> openpgp/elgamal (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/elgamal">https://godoc.org/golang.org/x/crypto/openpgp/elgamal</a><br/> openpgp/errors (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/errors">https://godoc.org/golang.org/x/crypto/openpgp/errors</a><br/> openpgp/packet (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/packet">https://godoc.org/golang.org/x/crypto/openpgp/packet</a><br/> openpgp/s2k (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/s2k">https://godoc.org/golang.org/x/crypto/openpgp/s2k</a><br/> openpgp/s2k/otr (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/openpgp/s2k/otr">https://godoc.org/golang.org/x/crypto/openpgp/s2k/otr</a><br/> pbkdf2 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/pbkdf2">https://godoc.org/golang.org/x/crypto/pbkdf2</a><br/> pkcs12 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/pkcs12">https://godoc.org/golang.org/x/crypto/pkcs12</a><br/> pkcs12/internal/rc2 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/pkcs12/internal/rc2">https://godoc.org/golang.org/x/crypto/pkcs12/internal/rc2</a><br/> poly1305 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/poly1305">https://godoc.org/golang.org/x/crypto/poly1305</a><br/> ripemd160 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ripemd160">https://godoc.org/golang.org/x/crypto/ripemd160</a><br/> salsa20 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/salsa20">https://godoc.org/golang.org/x/crypto/salsa20</a><br/> salsa20/salsa (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/salsa20/salsa">https://godoc.org/golang.org/x/crypto/salsa20/salsa</a><br/> scrypt (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/scrypt">https://godoc.org/golang.org/x/crypto/scrypt</a><br/> sftp (pkg), see: <a href="https://github.com/pkg/sftp">https://github.com/pkg/sftp</a><br/> sha3 (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/sha3">https://godoc.org/golang.org/x/crypto/sha3</a><br/> ssh (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ssh">https://godoc.org/golang.org/x/crypto/ssh</a><br/> ssh/agent (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ssh/agent">https://godoc.org/golang.org/x/crypto/ssh/agent</a><br/> ssh/knownhosts (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ssh/knownhosts">https://godoc.org/golang.org/x/crypto/ssh/knownhosts</a><br/> ssh/terminal (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ssh/terminal">https://godoc.org/golang.org/x/crypto/ssh/terminal</a><br/> ssh/test (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/ssh/test">https://godoc.org/golang.org/x/crypto/ssh/test</a><br/> tea</p> |

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|          |               | <p>(golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/tea">https://godoc.org/golang.org/x/crypto/tea</a> twofish (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/twofish">https://godoc.org/golang.org/x/crypto/twofish</a> xtea (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/xtea">https://godoc.org/golang.org/x/crypto/xtea</a> xts (golang.org/x/crypto), see: <a href="https://godoc.org/golang.org/x/crypto/xts">https://godoc.org/golang.org/x/crypto/xts</a> The following component has essentially been deprecated: letsencrypt (rsc.io), see: <a href="https://godoc.org/rsc.io/letsencrypt">https://godoc.org/rsc.io/letsencrypt</a> letsencrypt contains the following notice and</p> <p><b>DOES NOT APPEAR TO CONTAIN CRYPTOGRAPHIC ALGORITHMS:</b></p> <p>// Package letsencrypt obtains TLS certificates from LetsEncrypt.org.</p> <p>//</p> <p>// LetsEncrypt.org is a service that issues free SSL/TLS certificates to servers</p> <p>// that can prove control over the given domain's DNS records or</p> <p>// the servers pointed at by those records.</p> <p>// // Warning</p> <p>//</p> <p>// Like any other random code you find on the internet, this package should</p> <p>// not be relied upon in important, production systems without thorough testing</p> <p>// to ensure that it meets your needs.</p> <p>//</p> <p>// In the long term you should be using</p> <p>// <a href="https://golang.org/x/crypto/acme/autocert">https://golang.org/x/crypto/acme/autocert</a> instead of this package.</p> <p>// Send improvements there, not here.</p> <p>//</p> <p>// This is a package that I wrote for my own personal web sites (swtch.com, rsc.io)</p> <p>// in a hurry when my paid-for SSL certificate was expiring. It has no tests,</p> <p>// has barely been used, and there is some anecdotal evidence that it does</p> <p>// not properly renew certificates in a timely fashion, so servers that run for</p> <p>// more than 3 months may run into trouble.</p> <p>// I don't run this code anymore: to simplify maintenance, I moved the sites</p> <p>// off of Ubuntu VMs and onto Google App Engine, configured with inexpensive</p> |

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| Zaxxer.com | HikariCP 3.3.1 | Copyright (C) 2013, 2014 Brett Wooldridge<br>APACHE 2.0 - See <a href="#">Appendix E</a> Below 4th party dependency<br>----- SLF4j 1.7.25, MIT license SLF4J source code and binaries are distributed under the MIT license. Copyright (c) 2004-2013 QOS.ch All rights reserved. MIT - See <a href="#">Appendix G</a>                |
| Zaxxer.com | HikariCP 3.4.5 | Copyright (C) 2013, 2014 Brett Wooldridge<br>APACHE 2.0 - See <a href="#">Appendix E</a><br>Below 4th party dependency<br>-----<br>SLF4j 1.7.25, MIT license<br>SLF4J source code and binaries are distributed under the MIT license.<br>Copyright (c) 2004-2013 QOS.ch All rights reserved.<br>MIT - See <a href="#">Appendix G</a> |

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| jsonwebtoken.io, Technology | jjwt 0.10.7   | <p>TOP-LEVEL COMPONENTS:<br/>io.jsonwebtoken:jjwt-api:0.10.7<br/>io.jsonwebtoken:jjwt-impl:0.10.7<br/>io.jsonwebtoken:jjwt-jackson:0.10.7</p> <p>COPYRIGHT NOTICE<br/>Copyright (C) 2019 jsonwebtoken.io<br/>This program is licensed to you under the Apache License Version 2.0, and you may not use this file except in compliance with the Apache License Version 2.0.<br/>You may obtain a copy of the Apache License Version 2.0 at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>.<br/>Unless required by applicable law or agreed to in writing, software distributed under the Apache License Version 2.0 is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.<br/>See the Apache License Version 2.0 for the specific language governing permissions and limitations there under.<br/>Extract as it is from NOTICE.md :<br/>## Base64 implementation<br/>JJWT's `io.jsonwebtoken.io.Base64` implementation is based on [MigBase64] (<a href="https://github.com/brsanthu/migbase64">https://github.com/brsanthu/migbase64</a>) with continued modifications for Base64 URL support and additional test cases. The MigBase64 copyright and license notice have been retained and are repeated here per that code's requirements:<br/>Licence (BSD):<br/>=====<br/>Copyright (c) 2004, Mikael Grev, MiG InfoCom AB. (base64 @ miginfocom . com)<br/>All rights reserved.<br/>BSD License- See <a href="#">Appendix N</a><br/>-----<br/>TOP-LEVEL LICENSE TEXT for<br/>io.jsonwebtoken:jjwt-api:0.10.7<br/>io.jsonwebtoken:jjwt-impl:0.10.7<br/>io.jsonwebtoken:jjwt-jackson:0.10.7<br/>Apache License, Version 2.0 - See <a href="#">Appendix E</a><br/>-----</p> |

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|          |               | <p>Copyright (C) 2009-2017 the original author(s).</p> <p>--</p> <p>xerces:xercesImpl:jar:2.12.0.SP02</p> <p>Copyright © 1999-2020 The Apache Software Foundation. All Rights Reserved.</p> <p>--</p> <p>com.fasterxml.jackson.core:jackson-core:jar:2.10.1</p> <p>com.fasterxml.jackson.core:jackson-databind:jar:2.10.1</p> <p>com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1</p> <p>com.fasterxml.jackson.dataformat:jackson-dataformat-cbor:jar:2.10.1</p> <p>com.fasterxml:classmate:jar:1.3.4</p> <p>org.infinispan:infinispan-core:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-commons:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-multimap:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-cache-store-remote:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-client-hotrod:jar:9.4.18.Final</p> <p>Copyright 2016 Red Hat, Inc. and/or its affiliates</p> <p>--</p> <p>org.jboss.resteasy:resteasy-jaxrs:jar:3.11.2.Final</p> <p>Copyright 2019 Red Hat, Inc. and/or its affiliates</p> <p>--</p> <p>org.apache.kerby:kerby-asn1:jar:2.0.0</p> <p>org.apache.commons:commons-collections4:jar:4.1</p> <p>org.apache.james:apache-mime4j:jar:0.6</p> <p>org.apache.santuario:xmlsec:jar:2.1.4</p> <p>org.apache.maven:maven-aether-provider:jar:3.3.9</p> <p>org.apache.maven:maven-artifact:jar:3.5.4</p> <p>org.apache.maven.plugin-tools:maven-plugin-annotations:jar:3.4</p> <p>org.apache.maven:maven-core:jar:3.3.9</p> <p>org.apache.maven:maven-model:jar:3.5.4</p> <p>org.apache.maven:maven-model-builder:jar:3.5.4</p> |



Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information   |
|----------|---------------|---|
|          |               | <p>org.apache.maven:maven-plugin-api:jar:3.3.9<br/> org.apache.maven:maven-repository-metadata:jar:3.5.4<br/> org.apache.maven:maven-settings:jar:3.3.9<br/> org.apache.maven:maven-settings-builder:jar:3.3.9<br/> org.apache.maven:maven-builder-support:jar:3.5.4<br/> org.apache.commons:commons-lang3:jar:3.9<br/> org.apache.commons:commons-compress:jar:1.18<br/> org.apache.httpcomponents:httpclient:jar:4.5.1<br/> 1<br/> org.apache.httpcomponents:httpcore:jar:4.4.1<br/> 3<br/> org.freemarker:freemarker:jar:2.3.29<br/> commons-lang:commons-lang:jar:2.6<br/> commons-logging:commons-logging:jar:1.2<br/> commons-codec:commons-codec:jar:1.6<br/> commons-io:commons-io:jar:2.6<br/> &lt;!--<br/> =====<br/> =====<br/> Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at<br/> <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a><br/> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.<br/> =====<br/> =====<br/> This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see &lt;<a href="http://www.apache.org">http://www.apache.org</a>&gt;.</p> |

**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider | Component (s) | Licensing Information   |
|----------|---------------|---|
|          |               | <pre> --&gt; -- com.google.guava:guava:jar:25.0-jre com.google.code.findbugs:jsr305:jar:1.3.9 com.google.errorprone:error_prone_annotations:jar:2.1.3 com.google.j2objc:j2objc-annotations:jar:1.1 com.google.code.gson:gson:jar:2.8.2 &lt;!-- Copyright 2011 Google Inc. All Rights Reserved. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. --&gt; -- com.google.zxing:javase:jar:3.4.0 com.google.zxing:core:jar:3.4.0 &lt;!-- Copyright (C) 2010 ZXing authors Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. --&gt; -- com.github.ua-parser:uap-java:jar:1.4.3 Copyright 2012 Twitter, Inc -- </pre> |

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|----------|---------------|---|
|          |               | <p>org.yaml:snakeyaml:jar:1.20<br/>Copyright (c) 2008, <a href="http://www.snakeyaml.org">http://www.snakeyaml.org</a><br/>--<br/>org.twitter4j:twitter4j-core:jar:4.0.7<br/>Copyright 2007 Yusuke Yamamoto<br/>--<br/>com.googlecode.javaewah:JavaEWAH:jar:1.1.6<br/>com.googlecode.owasp-java-html-sanitizer:owasp-java-html-sanitizer:jar:20191001.1<br/>(c) 2009-2016 Daniel Lemire (<a href="http://lemire.me/en/">http://lemire.me/en/</a>), Cliff Moon, David McIntosh (<a href="https://github.com/mctofu">https://github.com/mctofu</a>), Robert Becho (<a href="https://github.com/RBecho">https://github.com/RBecho</a>), Colby Ranger (<a href="https://github.com/crangeratgoogle">https://github.com/crangeratgoogle</a>), Veronika Zenz (<a href="https://github.com/veronikazenz">https://github.com/veronikazenz</a>), Owen Kaser (<a href="https://github.com/owenkaser">https://github.com/owenkaser</a>), Gregory Ssi-Yan-Kai (<a href="https://github.com/gssiyankai">https://github.com/gssiyankai</a>), and Rory Graves (<a href="https://github.com/rorygraves">https://github.com/rorygraves</a>)<br/>This code is licensed under Apache License, Version 2.0 (ASL2.0). (GPL 2.0 derivatives are allowed.)<br/>--<br/>org.jboss.logging:jboss-logging:jar:3.4.1.Final<br/>net.bytebuddy:byte-buddy:jar:1.9.11<br/>com.github.benmanes.caffeine:caffeine:jar:2.6.2<br/>com.github.jai-imageio:jai-imageio-core:jar:1.4.0<br/>Apache License, Version 2.0<br/>--<br/>org.jboss.logmanager:jboss-logmanager:jar:2.1.14.Final<br/>org.jboss.marshalling:jboss-marshalling:jar:2.0.9.Final<br/>org.jboss.marshalling:jboss-marshalling-osgi:jar:2.0.6.Final<br/>Copyright 2014 Red Hat, Inc. and/or its affiliates.<br/>--<br/>org.jboss.remoting:jboss-remoting:jar:5.0.17.Final<br/>org.jboss.aesh:aesh:jar:0.66.19<br/>org.jboss.resteasy:resteasy-client:jar:3.11.2.Final</p> |

**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider | Component (s) | Licensing Information   |
|----------|---------------|---|
|          |               | <p>org.jboss.resteasy:resteasy-jaxb-provider:jar:3.11.2.Final</p> <p>org.jboss.resteasy:resteasy-multipart-provider:jar:3.11.2.Final</p> <p>org.jboss.modules:jboss-modules:jar:1.10.0.Final</p> <p>org.jboss.logging:jboss-logging-processor:jar:2.2.1.Final</p> <p>org.jboss.logging:jboss-logging-annotations:jar:2.2.1.Final</p> <p>org.jboss.jdeparser:jdeparser:jar:2.0.3.Final</p> <p>org.jboss.classfilewriter:jboss-classfilewriter:jar:1.2.4.Final</p> <p>org.jboss.invocation:jboss-invocation:jar:1.5.2.Final</p> <p>org.jboss.marshalling:jboss-marshalling-river:jar:2.0.0.Final</p> <p>Copyright 2016, Red Hat, Inc., and individual contributors as indicated by the @author tags.</p> <p>-----separator-----</p> <p>org.codehaus.mojo:animal-sniffer-annotations:jar:1.14</p> <p>org.codehaus.woodstox:stax2-api:jar:4.2</p> <p>Copyright (c) 2009 codehaus.org.</p> <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE</p> |

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| Provider   | Component (s)     | Licensing Information   |
|------------|-------------------|---|
| Kubernetes | Kubernetes 1.17.5 | <p>Kubernetes 1.9 and the following 4th party are under the</p> <p>Apache 2.0 License Listed in full below:</p> <p>"ImportPath": "cloud.google.com/go/internal",<br/> "Comment": "v0.1.0-115-g3b1ae45",<br/> "ImportPath": "github.com/Azure/azure-sdk-for-go "Comment": "v1.1.1-beta",<br/> "ImportPath": "github.com/armon/cirbuf",<br/> " Copyright (c) 2013 Armon Dadgar" "ImportPath": "github.com/asaskevich/govalidator", "Comment": "v4-12-g593d645", "Copyright (c) 2014 Alex Saskevich" ImportPath": "github.com/Azure/go-ansiterm", "Comment": "v9.1.0", "ImportPath": "github.com/NTTimes/gziphandler", "ImportPath": "github.com/abbot/go-http-auth", "ImportPath": "github.com/appc/spec/schema", "Comment": "v0.8.9-17-gfc380db", "ImportPath": "github.com/aws/aws-sdk-go "Comment": "v1.12.7", "ImportPath": "github.com/beorn7/perks/quantile", "ImportPath": "github.com/clusterhq/flocker-go", "ImportPath": "github.com/codedellemc/goscaleio" "ImportPath": "github.com/containerd/containerd" "Comment": "v1.0.0-beta.2-159-g27d450a0", "ImportPath": "github.com/containerd/networking", "Comment": "v0.6.0", "ImportPath": "github.com/coreos/etcd", "Comment": "v3.1.10", "ImportPath": "github.com/clusterhq/flocker-go", "ImportPath": "github.com/codedellemc/goscaleio", "ImportPath": "github.com/docker", "ImportPath": "github.com/euank/go-kmsg-parser/kmsgparser", "Comment": "v2.0.0", "ImportPath": "github.com/garyburd/redigo/internal", "Comment": "v1.0.0-1-gb8dc900", "ImportPath": "github.com/garyburd/redigo/redis", "Comment": "v1.0.0-1-gb8dc900", "ImportPath": "github.com/go-ini/ini", "Comment": "v1.25.4", "ImportPath": "github.com/go-openapi", "ImportPath": "github.com/golang", "ImportPath": "github.com/google/btree", "ImportPath": "github.com/google/cadvisor", "Comment": "v0.28.3", "ImportPath": "github.com/google/certificate-transparency", "ImportPath": "github.com/google/gofuzz", "ImportPath": "github.com/googleapis/gnostic", "ImportPath": "github.com/gophercloud/gophercloud", "ImportPath": "github.com/grpc-ecosystem/go-grpc-prometheus", "Comment": "v1.1-4-g2500245", "ImportPath": "github.com/grpc-ecosystem/grpc-gateway", "Comment": "v1.1.0-25-g84398b9",</p> |

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|          |               | <p>FOURTH-PARTY DEPENDENCY<br/>#9 io.opentracing.contrib:opentracing-spring-web-starter:2.1.0</p> <p>FOURTH-PARTY DEPENDENCY<br/>#10 io.opentracing.contrib:opentracing-tracerresolver:0.1.6</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11 io.opentracing.contrib:opentracing-web-servlet-filter:0.3.0</p> <p>FOURTH-PARTY DEPENDENCY #12<br/>io.opentracing:opentracing-api:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #13<br/>io.opentracing:opentracing-noop:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #14<br/>io.opentracing:opentracing-util:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #15<br/>org.apache.thrift:libthrift:0.12.0</p> <p>FOURTH-PARTY DEPENDENCY<br/>#16 org.springframework.boot:spring-boot:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#17 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#18 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#19 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#20 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#21 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#22 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#23 org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>COMMON LICENSE TEXT<br/>APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #24<br/>org.slf4j:slf4j-api:1.7.26</p> <p>FOURTH-PARTY DEPENDENCY #24<br/>COPYRIGHT NOTICES and LICENSE TEXT<br/>Copyright (c) 2004-2017 QOS.ch<br/>All rights reserved.</p> |

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|          |               | MIT - See <a href="#">Appendix G</a> |

Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider       | Component (s)                               | Licensing Information  |
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information   |
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|          |               | <p>beans:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY</p> <p>#12 org.springframework:spring-context:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY</p> <p>#13 org.springframework:spring-core:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY</p> <p>#14 org.springframework:spring-expression:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY</p> <p>#15 org.springframework:spring-jcl:5.2.3.RELEASE COMMON Copyright / * * Copyright 2012-2019 the original author or authors. * * Licensed under the Apache License, Version 2.0 (the "License"); * you may not use this file except in compliance with the License. * You may obtain a copy of the License at * * <a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a> * * Unless required by applicable law or agreed to in writing, software * distributed under the License is distributed on an "AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. * See the License for the specific language governing permissions and * limitations under the License. */</p> <p>FOURTH-PARTY DEPENDENCY</p> <p>#1 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.3.1 FOURTH-PARTY DEPENDENCY</p> <p>#2 io.opentracing.contrib:opentracing-spring-web:3.0.1 FOURTH-PARTY DEPENDENCY</p> <p>#3 io.opentracing:opentracing-api:0.33.0 FOURTH-PARTY DEPENDENCY</p> <p>#4 io.opentracing:opentracing-noop:0.33.0 FOURTH-PARTY DEPENDENCY</p> <p>#5 io.opentracing:opentracing-util:0.33.0 FOURTH-PARTY DEPENDENCY</p> <p>#6 io.opentracing.contrib:opentracing-tracerresolver:0.1.8 FOURTH-PARTY DEPENDENCY</p> <p>#7 io.opentracing.contrib:opentracing-web-servlet-filter:0.4.0 FOURTH-PARTY DEPENDENCY</p> <p>#8 org.springframework.boot:spring-boot:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY</p> <p>#9 org.springframework.boot:spring-boot-autoconfigure:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY</p> <p>#10 org.springframework:spring-aop:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY</p> |

**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider | Component (s) | Licensing Information  |
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|          |               | #11 org.springframework:spring-beans:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY<br>#12 org.springframework:spring-context:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY<br>#13 org.springframework:spring-core:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY<br>#14 org.springframework:spring-expression:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY<br>#15 org.springframework:spring-jcl:5.2.3.RELEASE COMMON License<br>APACHE 2.0 - See <a href="#">Appendix E</a> |



Table 3-1 (Cont.) Cloud Native Core Licensing Information

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| Provider | Component (s) | Licensing Information   |
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| Provider            | Component (s)                | Licensing Information   |
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|                     |                              | FOURTH-PARTY DEPENDENCY<br>#15 org.springframework:spring-jcl:5.2.3.RELEASE<br>COMMON License<br>APACHE 2.0 - See <a href="#">Appendix E</a>                      |
| opentracing-contrib | OpenTracing Spring Web 0.3.2 | APACHE 2.0 - See <a href="#">Appendix E</a> 4 <sup>th</sup> - party dependency: opentracing-web-servlet-filter v0.1.0 APACHE 2.0 - See <a href="#">Appendix E</a> |
| opentracing-contrib | OpenTracing Spring Web 1.1.1 | APACHE 2.0 - See <a href="#">Appendix E</a> 4 <sup>th</sup> - party dependency: opentracing-web-servlet-filter v0.1.0 APACHE 2.0 - See <a href="#">Appendix E</a> |

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| Provider | Component (s) | Licensing Information   |
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|          |               | <p>FOURTH-PARTY DEPENDENCY #3<br/>com.github.spullara.mustache.java:compiler:0.8.17</p> <p>FOURTH-PARTY DEPENDENCY #3<br/>COPYRIGHT NOTICES<br/>Copyright 2002-2010 the original author or authors.<br/>Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.<br/>You may obtain a copy of the License at <a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a><br/>Mustache.java factory with a fallback mechanism for locating resources.<br/>(Some parts are based on DefaultMustacheFactory code that is Copyright 2010 RightTime, Inc.)<br/>@author gw0 [<a href="http://gw.tnode.com/">http://gw.tnode.com/</a>]<br/>&lt;gw.2012@tnode.com&gt;</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #4<br/>com.fasterxml.jackson.core:jackson-annotations:2.10.0</p> <p>FOURTH-PARTY DEPENDENCY #4<br/>COPYRIGHT NOTICES<br/>Copyright © 2008–2019 FasterXML. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #5<br/>com.google.code.findbugs:jsr305:3.0.2</p> <p>FOURTH-PARTY DEPENDENCY #5<br/>COPYRIGHT NOTICES<br/>&lt;!-- Copyright 1992-2002 HaL Computer Systems, Inc.,<br/>O'Reilly &amp; Associates, Inc., ArborText, Inc., Fujitsu Software Corporation, Norman Walsh, Sun Microsystems, Inc., and the Organization for the Advancement of Structured Information Standards (OASIS).<br/>\$Id: dbcentx.mod,v 1.1 2005/11/28 21:36:47 daveho Exp \$<br/>Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is</p> |



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|          |               | <p>Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.</p> <p>The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:</p> <p>analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,<br/> analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,<br/> analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,<br/> analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,<br/> analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,<br/> analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt</p> <p>See <a href="http://members.unine.ch/jacques.savoy/clef/index.html">http://members.unine.ch/jacques.savoy/clef/index.html</a>.</p> <p>The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:</p> <p>analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/fin/FinnishLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java<br/> analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java</p> <p>The Stempel analyzer (stempel) includes BSD-licensed software developed by the</p> |

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|          |               | <p>Egothor project <a href="http://egothor.sf.net/">http://egothor.sf.net/</a>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan. The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in <code>stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt</code>. See <a href="http://project.carrot2.org/license.html">http://project.carrot2.org/license.html</a>.</p> <p>The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by <a href="http://www.imdict.net">www.imdict.net</a>.</p> <p>WordBreakTestUnicode_*.java (under <code>modules/analysis/common/src/test/</code>) is derived from Unicode data such as the Unicode Character Database. See <a href="http://unicode.org/copyright.html">http://unicode.org/copyright.html</a> for more details.</p> <p>The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Miłkowski (<a href="http://morfologik.blogspot.com/">http://morfologik.blogspot.com/</a>).</p> <p>Morfologik uses data from Polish <code>ispell/myspell</code> dictionary (<a href="http://www.sjp.pl/slownik/en/">http://www.sjp.pl/slownik/en/</a>) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.</p> <p>Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (<a href="http://sgjp.pl/morfeusz/">http://sgjp.pl/morfeusz/</a>)</p> <p>Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at <a href="http://www.eclipse.org/jetty/downloads.php">http://www.eclipse.org/jetty/downloads.php</a></p> <p>Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration</p> <p>This software includes a binary and/or source version of data from <code>mecab-ipadic-2.7.0-20070801</code> which can be obtained from <a href="http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz">http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz</a> or <a href="http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz">http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz</a></p> <p><code>mecab-ipadic-2.7.0-20070801</code> Notice</p> <p>Nara Institute of Science and Technology (NAIST), the copyright holders, disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness, in no event shall</p> |



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|          |               | <p>FOURTH-PARTY DEPENDENCY<br/>#25 org.springframework.boot:spring-boot-starter-jdbc:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#26 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#27 org.springframework.data:spring-data-commons:2.1.10.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#28 org.springframework.data:spring-data-jpa:2.1.10.RELEASE</p> <p>COMMON COPYRIGHT NOTICE<br/>Copyright © 2019 Pivotal Software, Inc.. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#29 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#30 org.springframework:spring-aspects:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#31 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#32 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#33 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#34 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#35 org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#36 org.springframework:spring-jdbc:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#37 org.springframework:spring-orm:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #38<br/>org.springframework:spring-tx:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#39 org.springframework:spring-web:5.1.9.RELEASE</p> |

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| Provider | Component (s) | Licensing Information  |
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|          |               | <p>FOURTH-PARTY DEPENDENCY #7 com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #8 com.zaxxer:HikariCP:3.2.0</p> <p>FOURTH-PARTY DEPENDENCY #9 io.undertow:undertow-core:2.0.23.Final</p> <p>FOURTH-PARTY DEPENDENCY #10 io.undertow:undertow-servlet:2.0.23.Final</p> <p>FOURTH-PARTY DEPENDENCY #11 io.undertow:undertow-websockets-jsr:2.0.23.Final</p> <p>FOURTH-PARTY DEPENDENCY #12 javax.validation:validation-api:2.0.1.Final</p> <p>FOURTH-PARTY DEPENDENCY #13 net.bytebuddy:byte-buddy:1.9.16</p> <p>FOURTH-PARTY DEPENDENCY #14 org.apache.logging.log4j:log4j-api:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #15 org.apache.logging.log4j:log4j-core:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #16 org.apache.logging.log4j:log4j-jul:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #17 org.apache.logging.log4j:log4j-slf4j-impl:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #18 org.jboss:jandex:2.0.5.Final</p> <p>FOURTH-PARTY DEPENDENCY #19 org.jboss.logging:jboss-logging:3.3.2.Final</p> <p>FOURTH-PARTY DEPENDENCY #20 org.springframework.boot:spring-boot-actuator:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #21 org.springframework.boot:spring-boot-actuator-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #22 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #23 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #24 org.springframework.boot:spring-boot-starter-aop:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #25 org.springframework.boot:spring-boot-starter-jdbc:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #26 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE</p> |

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|                       |                              | spring-boot-test 2.2.0.RELEASE<br>org.springframework.boot » spring-boot-test-<br>autoconfigure 2.2.0.RELEASE org.xmlunit »<br>xmlunit-core 2.6.3 org.assertj » assertj-<br>core 3.13.2 com.jayway.jsonpath » json-<br>path 2.4.0 <a href="http://www.apache.org/licenses/LICENSE-2.0.txt">http://www.apache.org/licenses/<br/>                     LICENSE-2.0.txt</a><br>APACHE 2.0 - See <a href="#">Appendix E</a> |
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|          |               | <p>   \--- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.10.2 (*)</p> <p>  \--- io.micrometer:micrometer-core:1.3.2</p> <p>  +--- org.hdrhistogram:HdrHistogram:2.1.11</p> <p>  \--- org.latencyutils:LatencyUtils:2.0.3</p> <p>© 2019 Pivotal Software, Inc. All Rights Reserved</p> <p>-----</p> <p>TOP-LEVEL LICENSE TEXT<br/>for org.springframework.boot:spring-boot-starter-actuator:jar:2.2.2.RELEASE:compile<br/>Apache License, Version 2.0 - See <a href="#">Appendix E</a></p> <p>----- separator-----</p> <p>[FOURTH-PARTY DEPENDENCY #01]<br/>  +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #02]   +- io.micrometer:micrometer-core:jar:1.3.1:compile</p> <p>[FOURTH-PARTY DEPENDENCY #03]    +- org.hdrhistogram:HdrHistogram:2.1.11:compile</p> <p>[FOURTH-PARTY DEPENDENCY #04]    \- org.latencyutils:LatencyUtils:2.0.3:compile</p> <p>[FOURTH-PARTY DEPENDENCY #05]<br/>  +- org.springframework.boot:spring-boot-actuator-autoconfigure:jar:2.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #06]   +- org.springframework:spring-core:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #07]<br/>   +- org.springframework:spring-jcl:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #08]   +- org.springframework:spring-context:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #09]<br/>   +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #10]<br/>   +- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #11]<br/>   +- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #12]<br/>  +- org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile</p> |

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| Provider | Component (s) | Licensing Information  |
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information   |
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|          |               | <p>[FOURTH-PARTY DEPENDENCY #12] org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #13] com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.1:compile</p> <p>[FOURTH-PARTY DEPENDENCY #14] com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1:compile</p> <p>[FOURTH-PARTY DEPENDENCY #15] org.springframework.boot:spring-boot:jar:2.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #16] com.fasterxml.jackson.core:jackson-databind:jar:2.10.1.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #17] com.fasterxml.jackson.core:jackson-core:2.10.1:compile</p> <p>[FOURTH-PARTY DEPENDENCY #18] org.springframework.boot:spring-boot-autoconfigure:jar:2.2.2.RELEASE:compile</p> <p>Apache License, Version 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>Common License Notice for<br/>CC0 1.0</p> <p>[FOURTH-PARTY DEPENDENCY #03] org.hdrhistogram:HdrHistogram:2.1.11:compile</p> <p>[FOURTH-PARTY DEPENDENCY #04] org.latencyutils:LatencyUtils:2.0.3:compile</p> <p>Creative Commons Legal Code<br/>CC0 1.0 Universal</p> <p>-----</p> <p>Common License Notice for Clause-3 BSD:</p> <p>[FOURTH-PARTY DEPENDENCY #06] org.springframework:spring-core:jar:5.2.2.RELEASE:compile</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</li> <li>3. Neither the name of the copyright holders nor the names of its contributors may be</li> </ol> |

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|          |               | <p>FOURTH-PARTY DEPENDENCY #5<br/>io.micrometer:micrometer-core:1.1.5</p> <p>FOURTH-PARTY DEPENDENCY #5<br/>COPYRIGHT NOTICES<br/>© 2019 Pivotal Software, Inc. All Rights Reserved</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #6<br/>org.springframework.boot:spring-boot:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #7<br/>org.springframework.boot:spring-boot-actuator:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #8<br/>org.springframework.boot:spring-boot-actuator-autoconfigure:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #9<br/>org.springframework.boot:spring-boot-autoconfigure:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #10<br/>org.springframework.boot:spring-boot-starter:2.2.0.BUILD-SNAPSHOT</p> <p>COMMON COPYRIGHT NOTICE<br/>Copyright © 2019 Pivotal Software, Inc.. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #11<br/>org.springframework:spring-aop:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #12<br/>org.springframework:spring-beans:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #13<br/>org.springframework:spring-context:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #14<br/>org.springframework:spring-core:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #15<br/>org.springframework:spring-expression:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #16<br/>org.springframework:spring-jcl:5.2.0.BUILD-SNAPSHOT</p> <p>COMMON COPYRIGHT NOTICE<br/>Copyright 2002-2019 the original author or authors.</p> <p>-----</p> |

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| Provider | Component (s) | Licensing Information  |
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|          |               | <p>FOURTH-PARTY DEPENDENCY<br/>#4 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #5<br/>io.micrometer:micrometer-core:1.1.5</p> <p>FOURTH-PARTY DEPENDENCY<br/>#6 org.springframework.boot:spring-boot:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#7 org.springframework.boot:spring-boot-actuator:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#8 org.springframework.boot:spring-boot-actuator-autoconfigure:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#9 org.springframework.boot:spring-boot-autoconfigure:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#10 org.springframework.boot:spring-boot-starter:2.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11 org.springframework:spring-aop:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#12 org.springframework:spring-beans:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#13 org.springframework:spring-context:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#14 org.springframework:spring-core:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#15 org.springframework:spring-expression:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY<br/>#16 org.springframework:spring-jcl:5.2.0.BUILD-SNAPSHOT</p> <p>FOURTH-PARTY DEPENDENCY #17<br/>org.yaml:snakeyaml:1.23</p> <p>COMMON LICENSE NOTICE<br/>Apache License, Version 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #19<br/>org.hdrhistogram:HdrHistogram:2.1.11</p> <p>FOURTH-PARTY DEPENDENCY #19<br/>COPYRIGHT NOTICE<br/>Copyright © 2016. All rights reserved.</p> |



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| Provider | Component (s) | Licensing Information  |
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|          |               | <p>com.fasterxml.jackson.core:jackson-databind:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #17]     +-<br/>                     com.fasterxml.jackson.core:jackson-core:2.10.1:compile [FOURTH-PARTY DEPENDENCY #18]   \-<br/>                     org.springframework.boot:spring-boot-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #01] org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #01] COPYRIGHT NOTICE Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License</p> <p>[FOURTH-PARTY DEPENDENCY #02] io.micrometer:micrometer-core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #02] COPYRIGHT NOTICE Copyright 2019 Pivotal Software, Inc. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>[FOURTH-PARTY DEPENDENCY #03] org.hdrhistogram:HdrHistogram:2.1.11:compile [FOURTH-PARTY DEPENDENCY #03] COPYRIGHT NOTICE Written by Gil Tene of Azul Systems, and released to the public domain, as explained at <a href="http://creativecommons.org/publicdomain/zero/1.0/">http://creativecommons.org/publicdomain/zero/1.0/</a></p> <p>[FOURTH-PARTY DEPENDENCY #04] org.latencyutils:LatencyUtils:2.0.3:compile [FOURTH-PARTY DEPENDENCY #04] COPYRIGHT NOTICE Written by Gil Tene of Azul Systems, and released to</p> |

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information   |
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**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider              | Component (s)                         | Licensing Information  |
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| Pivotal Software, Inc | spring-boot-starter-web 2.1.7.RELEASE | <p>Copyright 2019 Pivotal Software, Inc. All Rights Reserved<br/>           APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #1<br/>           com.fasterxml:classmate: 1.4.0<br/>           FOURTH-PARTY DEPENDENCY #1<br/>           COPYRIGHT NOTICES<br/>           Copyright © 2012-2018 fasterxml.com. All rights reserved.<br/>           Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)<br/>           Other developers who have contributed code are:<br/>           * Brian Langel</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #2<br/>           com.fasterxml.jackson.core:jackson-annotations:2.9.0<br/>           FOURTH-PARTY DEPENDENCY #2<br/>           COPYRIGHT NOTICES<br/>           Copyright © 2008-2017 FasterXML. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #3<br/>           com.fasterxml.jackson.core:jackson-core:2.9.9<br/>           FOURTH-PARTY DEPENDENCY #3<br/>           COPYRIGHT NOTICES<br/>           Jackson JSON-processor.<br/>           Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi<br/>           # Jackson JSON processor<br/>           Jackson is a high-performance, Free/Open Source JSON processing library.<br/>           It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.<br/>           It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.<br/>           ## Licensing<br/>           Jackson core and extension components may be licensed under different licenses.<br/>           To find the details that apply to this artifact see the accompanying LICENSE file.<br/>           For more information, including possible other licensing options, contact FasterXML.com (<a href="http://fasterxml.com">http://fasterxml.com</a>).</p> |

**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider | Component (s) | Licensing Information  |
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|          |               | <p>## Credits<br/>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> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#4 com.fasterxml.jackson.core:jackson-databind:2.9.9.3</p> <p>FOURTH-PARTY DEPENDENCY #4<br/>COPYRIGHT NOTICES<br/>Copyright © 2008-2019 FasterXML. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#5 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY<br/>#6 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY<br/>#7 com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9</p> <p>COMMON COPYRIGHT NOTICES<br/>Copyright © 2019 FasterXML. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #8<br/>javax.validation:validation-api:2.0.1.Final</p> <p>FOURTH-PARTY DEPENDENCY #8<br/>COPYRIGHT NOTICES<br/>Copyright © 2007-2017 Red Hat Inc. All Rights Reserved. Released under the Apache Software License 2.0.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #9<br/>org.jboss.logging:jboss-logging:3.3.2.Final</p> <p>FOURTH-PARTY DEPENDENCY #9<br/>COPYRIGHT NOTICE<br/>Copyright © 2015 Red Hat, Inc.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#10 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE</p> |

Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information  |
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|          |               | <p>FOURTH-PARTY DEPENDENCY<br/>#11A org.springframework.boot:spring-boot:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11B org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>COMMON COPYRIGHT NOTICE<br/>Copyright © 2019 Pivotal Software, Inc.. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#12 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#13 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#14 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#15 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#16 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#16A org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#17 org.springframework:spring-web:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#18 org.springframework:spring-webmvc:5.1.9.RELEASE</p> <p>COMMON COPYRIGHT NOTICE<br/>Copyright 2002-2019 the original author or authors.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#19 org.hibernate.validator:hibernate-validator:6.0.17.Final</p> <p>FOURTH-PARTY DEPENDENCY #19<br/>COPYRIGHT NOTICE<br/>Copyright 2009 IIZUKA Software Technologies Ltd</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #19A<br/>org.yaml:snakeyaml:1.23</p> <p>FOURTH-PARTY DEPENDENCY #19A<br/>COPYRIGHT NOTICES</p> |

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| Provider | Component (s) | Licensing Information  |
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|          |               | <p>Copyright (c) 2008, <a href="http://www.snakeyaml.org">http://www.snakeyaml.org</a><br/> APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>Copyright 2003-2010 Christian d'Heureuse,<br/> Inventec Informatik AG, Zurich, Switzerland<br/> <a href="http://www.source-code.biz">www.source-code.biz</a>, <a href="http://www.inventec.ch/chdh">www.inventec.ch/chdh</a></p> <p>This module is multi-licensed and may be used under the terms of any of the following licenses:</p> <p>EPL, Eclipse Public License, V1.0 or later, <a href="http://www.eclipse.org/legal">http://www.eclipse.org/legal</a></p> <p>LGPL, GNU Lesser General Public License, V2.1 or later, <a href="http://www.gnu.org/licenses/lgpl.html">http://www.gnu.org/licenses/lgpl.html</a></p> <p>GPL, GNU General Public License, V2 or later, <a href="http://www.gnu.org/licenses/gpl.html">http://www.gnu.org/licenses/gpl.html</a></p> <p>AL, Apache License, V2.0 or later, <a href="http://www.apache.org/licenses">http://www.apache.org/licenses</a></p> <p>BSD, BSD License, <a href="http://www.opensource.org/licenses/bsd-license.php">http://www.opensource.org/licenses/bsd-license.php</a></p> <p>Please contact the author if you need another license.</p> <p>This module is provided "as is", without warranties of any kind.</p> <p>Oracle elects to use the Apache 2.0 License.</p> <p>Copyright (c) 2008 Google Inc.<br/> APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #1<br/> com.fasterxml:classmate: 1.4.0</p> <p>FOURTH-PARTY DEPENDENCY #2<br/> com.fasterxml.jackson.core:jackson-annotations:2.9.0</p> <p>FOURTH-PARTY DEPENDENCY #3<br/> com.fasterxml.jackson.core:jackson-core:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #4<br/> com.fasterxml.jackson.core:jackson-databind:2.9.9.3</p> <p>FOURTH-PARTY DEPENDENCY #5<br/> com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #6<br/> com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #7<br/> com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #8<br/> javax.validation:validation-api:2.0.1.Final</p> |



**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider | Component (s) | Licensing Information   |
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|          |               | <p>FOURTH-PARTY DEPENDENCY #9<br/>org.jboss.logging:jboss-logging:3.3.2.Final</p> <p>FOURTH-PARTY DEPENDENCY<br/>#10 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11A org.springframework.boot:spring-boot:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#11B org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#12 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#13 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#14 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#15 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#16 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#16A org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#17 org.springframework:spring-web:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#18 org.springframework:spring-webmvc:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#19 org.hibernate.validator:hibernate-validator:6.0.17.Final</p> <p>FOURTH-PARTY DEPENDENCY #19A<br/>org.yaml:snakeyaml:1.23</p> <p>COMMON LICENSE NOTICE<br/>APACHE 2.0 - See <a href="#">Appendix E</a></p> |

**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

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| Pivotal Software, Inc | spring-boot-starter-web 2.2.4 | <p>Copyright 2012-2020 the original author or authors.</p> <p>-----</p> <p>org.springframework.boot:spring-boot-autoconfigure:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-parent:pom:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-json:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-logging:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-validation:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-web:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starters:pom:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot:jar:2.2.4.RELEASE</p> <p>org.springframework:spring-aop:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-beans:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-context:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-core:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-expression:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-jcl:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-web:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-webmvc:jar:5.2.3.RELEASE</p> <p>Copyright 2012-2020 the original author or authors.</p> <p>Apache License, Version 2.0 See <a href="#">Appendix E</a></p> <p>-----</p> <p>com.fasterxml.jackson.core:jackson-annotations:jar:2.10.2</p> <p>com.fasterxml.jackson.core:jackson-core:jar:2.10.2</p> |

**Table 3-1 (Cont.) Cloud Native Core Licensing Information**

| Provider | Component (s) | Licensing Information  |
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|          |               | <p>com.fasterxml.jackson.core:jackson-databind:jar:2.10.2<br/>                     com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.2<br/>                     com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.2<br/>                     com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.2<br/>                     com.fasterxml.jackson.module:jackson-modules-java8:pom:2.10.2<br/>                     com.fasterxml.jackson:jackson-base:pom:2.10.2<br/>                     com.fasterxml.classmate:jar:1.5.1<br/>                     com.fasterxml.oss-parent:pom:35<br/>                     Copyright 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.<br/>                     Copyright 2012 FasterXML.com<br/>                     Apache License 2.0<br/>                     -----<br/>                     org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.30<br/>                     org.apache.tomcat.embed:tomcat-embed-el:jar:9.0.30<br/>                     org.apache.tomcat.embed:tomcat-embed-websocket:jar:9.0.30<br/>                     Copyright © 1999-2019 The Apache Software Foundation.<br/>                     Apache License 2.0<br/>                     -----<br/>                     org.jboss.jboss-parent:pom:34<br/>                     org.jboss.arquillian:arquillian-bom:pom:1.1.11.Final<br/>                     Copyright 2010-2018, Red Hat, Inc., and individual contributors<br/>                     Apache License 2.0<br/>                     -----<br/>                     org.jboss.shrinkwrap.descriptors:shrinkwrap-descriptors-bom:pom:2.0.0-alpha-8<br/>                     org.jboss.shrinkwrap.resolver:shrinkwrap-resolver-bom:pom:2.2.0<br/>                     org.jboss.shrinkwrap:shrinkwrap-bom:pom:1.2.3<br/>                     Copyright 2009-2013, Red Hat Middleware LLC, and individual contributors<br/>                     Apache License 2.0<br/>                     -----<br/>                     org.jboss.logging:jboss-logging:jar:3.4.1.Final</p> |

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|          |               | <p>Copyright 2010-2019 Red Hat, Inc., and individual contributors<br/> Apache License 2.0<br/> -----</p> <p>org.apache.logging.log4j:log4j-api:jar:2.12.1<br/> org.apache.logging.log4j:log4j-to-slf4j:jar:2.12.1<br/> org.apache.logging.log4j:log4j:pom:2.12.1<br/> Copyright 1999-2019 Apache Software Foundation<br/> Apache License 2.0<br/> -----</p> <p>org.hibernate.validator:hibernate-validator:jar:6.0.18.Final<br/> org.hibernate.validator:hibernate-validator-parent:pom:6.0.18.Final<br/> Copyright (c) Adam Stawicki, Ahmed Al Hafoudh, Alaa Nassef, Andrey Derevyanko, Andrey Rodionov, Asutosh Pandya, Benson Margulies, Brent Douglas, Carlos Vara, Carlo de Wolf, Chris Beckey, Christian Ivan, Dag Hovland, Damir Alibegovic, Davide D'Alto, Davide Marchignoli, Denis Tiago, Doug Lea, Emmanuel Bernard, Efthymis Sarbanis, Federico, Federico Mancini, Gavin King, George Gastaldi, Gerhard Petracek, Guillaume Husta, Guillaume Smet, Gunnar Morling, Hardy Ferentschik, Henno Vermeulen, Hillmer Chona, Jan-Willem Willebrands, Jason T. Greene, Jesper Preuss, Jiri Bilek, Julien Furgerot, Julien May, Juraci Krohling, Justin Nauman, Kathryn Killebrew, Kazuki Shimizu, Kevin Pollet, Khalid Alqinyah, Lee Kyoungll, Leonardo, Loch Zanivan, Lucas Pouzac, Lukas Niemeier, Mark Hobson, Marko Bekhta, Matthias Kurz, Mert Çalışkan, Michal Fotyga, Nicola Ferraro, Nicolas François, Paolo Perrotta, Pete Muir, Rob Dickinson, Sanne Grinovero, Sebastian Bayerl, Shahram Goodarzi, Shane Bryzak, Shelly McGowan, Sjaak Derksen, Steve Ebersole, Strong Liu, Tadhg Pearson, Takashi Aoe, Tomaz Cerar, Tommy Johansen, Victor Rezende dos Santos, Willi Schönborn, Xavier Sosnovsky, Yanming Zhou, Yoann Rodière<br/> Apache License 2.0<br/> -----</p> <p>ch.qos.logback:logback-classic:jar:1.2.3<br/> ch.qos.logback:logback-parent:pom:1.2.3<br/> ch.qos.logback:logback-core:jar:1.2.3</p> |

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| Provider | Component (s) | Licensing Information  |
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider   | Component (s)                         | Licensing Information   |
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| Apache 2.0 | spring-boot-starter-web 2.2.6.RELEASE | <p>org.springframework.boot:spring-boot-starter-web:jar:2.2.2.RELEASE Copyright © 2019 Pivotal Software, Inc. All Rights Reserved<br/> -----separator----- TOP-LEVEL LICENSE<br/> TEXT for org.springframework.boot:spring-boot-starter-web:jar:2.2.2.RELEASE:compile<br/> Apache License, Version 2.0<br/> Apache License, Version 2.0 See <a href="#">Appendix E</a></p> <p>The list of 4th party dependencies:<br/> [FOURTH-PARTY DEPENDENCY #01]   +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02]  <br/> +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #03]  <br/>   \- org.yaml:snakeyaml:jar:1.25:runtime [FOURTH-PARTY DEPENDENCY #04]  <br/>   +- org.springframework.boot:spring-boot-starter-json:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #05]  <br/>   +- com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #06]  <br/>   \- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #07]  <br/>   +- org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08]  <br/>     \- org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.29:compile [FOURTH-PARTY DEPENDENCY #09]  <br/> +- org.springframework.boot:spring-boot-starter-validation:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10]  <br/>     +- jakarta.validation:jakarta.validation-api:jar:2.0.1:compile [FOURTH-PARTY DEPENDENCY #11]  <br/>   \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile [FOURTH-PARTY DEPENDENCY #12]  <br/>     +- org.jboss.logging:jboss-logging:jar:3.4.1.Final:compile [FOURTH-PARTY DEPENDENCY #13]    <br/> \- com.fasterxml.classmate:jar:1.5.1:compile [FOURTH-PARTY DEPENDENCY #14]   +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #15]  <br/>     \- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16]  <br/>   \- org.springframework:spring-webmvc:jar:5.2.2.RELEASE:compile</p> |

Table 3-1 (Cont.) Cloud Native Core Licensing Information

| Provider | Component (s) | Licensing Information  |
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|          |               | <p>[FOURTH-PARTY DEPENDENCY #17]   +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #18]   \- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #01] org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #01] COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="https://www.apache.org/licenses/LICENSE-2.0">https://www.apache.org/licenses/LICENSE-2.0</a> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>[FOURTH-PARTY DEPENDENCY #02] org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc. All Rights Reserved</p> <p>[FOURTH-PARTY DEPENDENCY #03] org.yaml:snakeyaml:jar:1.25:runtime [FOURTH-PARTY DEPENDENCY #03] COPYRIGHT NOTICE Copyright (c) 2008, <a href="http://www.snakeyaml.org">http://www.snakeyaml.org</a> Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright 2003-2010 Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland <a href="http://www.source-code.biz">www.source-code.biz</a>, <a href="http://www.inventec.ch/chdh">www.inventec.ch/chdh</a> This module is multi-licensed and may be used under the terms of any of the following licenses: EPL, Eclipse Public License, V1.0 or later, <a href="http://www.eclipse.org/legal">http://www.eclipse.org/legal</a> LGPL, GNU Lesser General Public License, V2.1</p> |

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|          |               | org.jboss.logging:jboss-logging:jar:3.4.1.Final:compile     \-<br>com.fasterxml:classmate:jar:1.5.1:compile   +-<br>org.springframework:spring-web:jar:5.2.2.RELEASE:compile     \-<br>org.springframework:spring-beans:jar:5.2.2.RELEASE:compile   \-<br>org.springframework:spring-webmvc:jar:5.2.2.RELEASE:compile   +-<br>org.springframework:spring-aop:jar:5.2.2.RELEASE:compile   \-<br>org.springframework:spring-expression:jar:5.2.2.RELEASE:compile<br>Apache License, Version 2.0 See <a href="#">Appendix E</a><br>For Eclipse Public License - v 2.0, refer <a href="#">Appendix Y</a> |

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|          |               | FOURTH-PARTY DEPENDENCY<br>#27 org.hibernate.validator:hibernate-validator:6.0.17.Final         |
|          |               | FOURTH-PARTY DEPENDENCY #28<br>org.jboss.logging:jboss-logging:3.3.2.Final                      |
|          |               | FOURTH-PARTY DEPENDENCY<br>#29 org.springframework.boot:spring-boot:2.1.6.RELEASE               |
|          |               | FOURTH-PARTY DEPENDENCY<br>#30 org.springframework.boot:spring-boot-autoconfigure:2.1.6.RELEASE |
|          |               | FOURTH-PARTY DEPENDENCY<br>#31 org.springframework.boot:spring-boot-starter:2.1.6.RELEASE       |
|          |               | FOURTH-PARTY DEPENDENCY<br>#32 org.springframework.boot:spring-boot-starter-json:2.1.6.RELEASE  |

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|          |               | <p>FOURTH-PARTY DEPENDENCY<br/>#33 org.springframework.boot:spring-boot-starter-logging:2.1.6.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#34 org.springframework.boot:spring-boot-starter-reactor-netty:2.1.6.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#35 org.springframework.boot:spring-boot-starter-webflux:2.1.6.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#36 org.springframework.cloud:spring-cloud-commons:2.1.2.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#37 org.springframework.cloud:spring-cloud-context:2.1.2.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#38 org.springframework.cloud:spring-cloud-gateway-core:2.1.2.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#39 org.springframework.cloud:spring-cloud-starter:2.1.2.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#40 org.springframework.cloud:spring-cloud-starter-gateway:2.1.2.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#41 org.springframework.security:spring-security-crypto:5.1.5.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#42 org.springframework.security:spring-security-rsa:1.0.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#43 org.synchronoss.cloud:nio-multipart-parser:1.1.0</p> <p>FOURTH-PARTY DEPENDENCY<br/>#44 org.synchronoss.cloud:nio-stream-storage:1.1.3</p> <p>FOURTH-PARTY DEPENDENCY<br/>#45 org.springframework:spring-beans:5.1.8.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#46 org.springframework:spring-core:5.1.8.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#47 org.springframework:spring-web:5.1.8.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY<br/>#48 org.springframework:spring-webflux:5.1.8.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #49<br/>org.yaml:snakeyaml:1.23</p> |

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|          |               | <p>FOURTH-PARTY DEPENDENCY #50 io.projectreactor:reactor-core:3.2.10.RELEASE<br/> APACHE 2.0 - See <a href="#">Appendix E</a></p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #51 org.bouncycastle:bcpkix-jdk15on:1.60<br/> FOURTH-PARTY DEPENDENCY #52 org.bouncycastle:bcprov-jdk15on:1.60<br/> COMMON COPYRIGHT AND LICENSE NOTICES</p> <p>Please note this should be read in the same way as the MIT license.</p> <p>Please also note this licensing model is made possible through funding from donations and the sale of support contracts.</p> <p>License</p> <p>Copyright (c) 2000 - 2019 The Legion of the Bouncy Castle Inc. (<a href="https://www.bouncycastle.org">https://www.bouncycastle.org</a>)</p> <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #53 org.glassfish:javax.el:3.0.0</p> |

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|          |               | <p>FOURTH-PARTY DEPENDENCY<br/>#2 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.10.2</p> <p>FOURTH-PARTY DEPENDENCY<br/>#3 com.fasterxml.jackson.core:jackson-core:2.10.2</p> <p>FOURTH-PARTY DEPENDENCY<br/>#4 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.10.2</p> <p>FOURTH-PARTY DEPENDENCY<br/>#5 com.fasterxml.jackson.module:jackson-module-parameter-names:2.10.2</p> <p>FOURTH-PARTY DEPENDENCY #6<br/>com.fasterxml.jackson.core: :2.10.2</p> <p>FOURTH-PARTY DEPENDENCY #7<br/>org.jboss.logging:jboss-logging:3.4.1.Final</p> <p>FOURTH-PARTY DEPENDENCY #8<br/>com.fasterxml.classmate:1.5.1</p> <p># Jackson JSON processor</p> <p>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.</p> <p>## Licensing</p> <p>Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<a href="http://fasterxml.com">http://fasterxml.com</a>).</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> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY<br/>#1 org.synchronoss.cloud:nio-multipart-parser:1.1.0</p> <p>FOURTH-PARTY DEPENDENCY<br/>#2 org.synchronoss.cloud:nio-stream-storage:1.1.3</p> <p>COPYRIGHT TEXT<br/>Copyright (C) 2015 Synchronoss Technologies</p> |

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File 1 of 38: LICENSE
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 ===== File 2 of 38: config.GUESS

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 ===== File 3 of 38: configure

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 ===== File 4 of 38: header

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 ===== File 5 of 38: build/shtool

=====  
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===== File 6 of 38: ext/bcmath/libbcmath/src/add.c
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=====
===== File 8 of 38: ext/calendar: dow.c
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===== File 10 of 38: ext/fileinfo/libmagic/LICENSE
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=====
===== File 12 of 38: ext/gd/libgd/README
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```

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=====
===== File 13 of 38: ext/gd/libgd/webpimg.c
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 ===== File 16 of 38: `ext/json/JSON_parser.c`  
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===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c
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===== File 19 of 38: ext/mbstring/oniguruma/enc/gb18030.c
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 ===== File 23 of 38: ext/standard/html\_tables/mappings/8859-1.txt  
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 ===== File 25 of 38: ext/standard/strnatcmp.c  
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 ===== File 26 of 38: ext/xmlrpc/libxmlrpc/encodings.c  
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 ===== File 27 of 38: ext/zip/lib/zip.h  
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 ===== File 28 of 38: main/mergesort.c  
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=====  
 ===== File 29 of 38: sapi/cli/php\_http\_parser.c  
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=====  
===== File 30 of 38: sapi/fpm/fpm/fpm\_log.c  
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=====  
 ===== File 34 of 38: win32/flock.c  
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 ===== File 35 of 38: win32/php\_stdint.h  
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===== File 38 of 38: Zend/zend\_strtod.c  
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\* Includes Sizzle.js

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```

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