

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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Introduction

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Licensing Information

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	Description: 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. This license is mandatory and needs to be purchased with other Cloud Native Core Network Functions. Given license provide access to following capabilities: Cloud native platform, Operations Services Overlay (OSO), Console, Data Tier (MySQL Carrier Grade edition cluster), Service Mesh 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). Prerequisites: 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 : • Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core , Network Repository Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
		• Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers • Oracle Communications Cloud Native Core , Service Communication Proxy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers Entitled Products and Restricted Use Licenses: 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.
	Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers: Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers Counting Mechanism: Since Unified Data Management is a prerequisites for AUSF. Unified Data Management counts unique device identifiers that it has activated.

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Binding Support Function (BSF) provides session binding functionality, which ensures request for session reaches the relevant PCF holding the session information. This service: - Allows Network Function (NF) consumers to register, update and remove the binding information; and - Allows Network Function (NF) consumers to retrieve the binding information. Prerequisites: None Counting Mechanism: BSF counts unique device identifiers as it processes messages.
	Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers	Description: 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. 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. Prerequisites: None Counting Mechanism: cnPCRF and PCF counts unique device identifiers as it processes messages.
	Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers	Description: 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. Prerequisites : None

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers	Description: 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 Prerequisites: 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

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The InterWorking and Mediation (IWF) Function provides Interworking and mediation function between HTTP <=> HTTP and HTTP <=> Diameter that allow access to the services and capabilities provided by network entities. 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). 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). In regards to Converged Policy, a license of InterWorking and Mediation Function (IWF) needs to be purchased separately. InterWorking and Mediation Function (IWF) is not required for Network Function Cloud Native Environment (CNE) and Subscriber Location Function (SLF). Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers: Any one of the Cloud Native Core network functions, except: • Oracle Communications Cloud Native Core, Network Function Cloud Native Environment, and • Oracle Communications Cloud Native Core, Subscriber Location Function. Counting Mechanism: IWF is used for either Interworking or Mediation. a) Interworking use case: IWF counts unique device identifiers as it processes messages in a given calendar month. b) Mediation use case: the subscriber count is based on unique device identifiers as it mediates messages in a given calendar month

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. The NEF Northbound interface supports the following procedures: • Procedures for Monitoring • Procedures for Device Triggering • Procedures for resource management of Background Data Transfer • Procedures for Communication Pattern Parameters Provisioning • Procedures for Packet Flow Description Management • Procedures for Traffic Influence Prerequisites: None Counting Mechanism: NEF counts unique device identifiers as it processes messages
	Oracle Communications Cloud Native Core, Network Repository Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: None Counting Mechanism: If SLF is deployed in addition to the NRF: the SLF counts unique device identifiers as it processes messages. If SLF is not deployed: the subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers	Description: 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 . Prerequisites: None Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • NRF, if present • Else, a 3rd party database
	Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers	Description: 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. Prerequisites: None. Counting Mechanism: PCF counts unique device identifiers as it processes messages.
	Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers	Description: 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. Prerequisites: None. Counting Mechanism: cnPCRF counts unique device identifiers as it processes messages.
	Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers	Description: 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). Prerequisites: None

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: None Counting Mechanism: SEPP counts unique device identifiers as it processes messages.
	Oracle Communications Cloud Native Core, Service Communication Proxy - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: None Counting Mechanism: SCP counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers	Description: This subproduct adds the following feature to the Oracle Communications Cloud Native Core. 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. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Counting Mechanism: SLF counts unique device identifiers as it processes messages.
	Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: None Counting Mechanism: UDM counts unique device identifiers that it has activated

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: None Counting Mechanism: UDR counts unique device identifiers that it has activated
	Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function – per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers Counting Mechanism: Since UDR is a prerequisite for UDSF. UDR counts unique device identifiers that it has activated.

Product	Sub product	Licensing Information
	Oracle Communications Common Signaling, Automated Test Tools and Scripts - Per Node	Description: The sub-product adds the following features to the Oracle Communications Cloud Native Core Network Functions. 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. From a license perspective, this SKU is applicable only to Network Function SKUs and not to the features. <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> Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Common Signaling, Automated Test Tools and Scripts – per Node Any Oracle Communications Cloud Native Core Network Function, except: • Oracle Communications Cloud Native Core, Network Function Cloud Native Environment – 25K Active Subscribers • Oracle Communications Cloud Native Core, Interworking and Mediation Function – 25K Active Subscribers • Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers
	Oracle Communications Cloud Native Core, Converged Policy Feature Pack A - per 25K Active Subscribers	Description: This sub-product adds optional features to Converged Policy. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: 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: • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - per 25K Active Subscribers	Description: This sub-product adds optional features to Service Communication Proxy. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – per 25K Active Subscribers
	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - per 25K Active Subscribers	Description: This sub-product adds optional features to Subscriber Location Function. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers
	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - per 25K Active Subscribers	Description: This sub-product adds optional features to Network Repository Function. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Repository Function – per 25K Active Subscribers

 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](#).

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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 1.7.0 Components

The following is the list of components for Cloud Native Environment 1.7.0:

- Elasticsearch - OSS 7.6.1
- helm 2.16.1
- Kubernetes 1.17.5
- Kubespray 2.13.0
- Python 2.7.5-86.0.1
- tar 1.26-35

Binding Support Function 1.6.0 Components

The following is the list of components for Binding Support Function 1.6.0:

- 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 2.6
- 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
- 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 Java Simpleclient 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 1.4.0 Components

The following is the list of components for Cloud Native Core Console 1.4.0:

- 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 29.0
- Hazelcast 3.12.5
- Hazelcast Discovery Plugin for Kubernetes 1.5.3
- hazelcast-kubernetes 1.5.3
- HikariCP 3.4.5

- HttpComponents HttpClient 4.5.12
- 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 7.0.0
- Log4J 2.13.1
- Log4J 2.13.3
- Lombok 1.18.12
- Micrometer 1.5.2
- Micrometer Registry Prometheus 1.3.6
- netty 4.1.46.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 Boot 2.3.1
- Spring Cloud Starter Gateway 2.2.1
- Spring Framework 5.2.7.RELEASE
- spring-boot-starter-oauth2-client 2.2.4.RELEASE
- spring-boot-starter-oauth2-resource-server 2.2.4.RELEASE
- spring-boot-starter-web 2.2.4.RELEASE
- spring-cloud-starter-kubernetes-config 1.1.2
- Springfox 3.0.0
- springfox-swagger-ui 2.9.2

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 1.9.0 Components

The following is the list of components for Network Repository Function 1.9.0:

- bucket4j 4.10.0
- Commons Beanutils 1.9.4
- Commons IO 2.6
- dnsjava 3.2.2
- fastjson 1.2.73
- Flask 1.1.2
- GSON 2.8.6
- Guava 29.0
- gunicorn 20.0.4
- Hazelcast 4.0.2
- Hazelcast Discovery Plugin for Kubernetes 2.1
- HttpComponents HttpClient 4.5.12
- 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 7.0.0
- 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
- OWASP Dependency Check 5.2.4
- PyMySQL 0.9.3
- Reactor Core 3.3.7.RELEASE
- reactor-netty 0.9.8
- Spring Boot 2.3.1.RELEASE
- Spring Boot 2.3.4
- spring-boot-starter-oauth2-client 2.2.4.RELEASE
- spring-boot-starter-oauth2-resource-server 2.2.4.RELEASE
- spring-boot-starter-undertow 2.3.3
- spring-cloud-starter-kubernetes 1.1.2
- spring-cloud-starter-kubernetes-config 1.1.2
- Springfox 2.9.2
- Springfox 3.0.0
- springfox-swagger-ui 2.9.2

Network Slice Selection Function 1.4.0 Components

The following is the list of components for Network Slice Selection Function 1.4.0:

- jackson-annotations 2.10.0
- jackson-core 2.10.0
- jackson-databind 2.10.0
- Kubernetes Java Client 7.0.0
- Micrometer 1.1.4
- OkHttp 4.2.2
- OpenTracing Spring Jaeger Web Starter 3.0.1
- OWASP Dependency Check 5.2.4
- Spring Boot 2.2.6.RELEASE
- spring-boot-starter-actuator 2.2.6.RELEASE
- spring-boot-starter-data-jpa 2.2.6.RELEASE

- spring-boot-starter-test 2.2.6.RELEASE
- spring-boot-starter-undertow 2.2.6.RELEASE
- spring-boot-starter-web 2.2.6.RELEASE

Cloud Native Core Policy 1.9.0 Components

The following is the list of components for Cloud Native Core Policy 1.9.0:

- 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 4.5.12
- HttpCore 4.4.13
- 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 Java Simpleclient 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

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 1.9.0 Components

The following is the list of components for Service Communication Proxy 1.9.0:

- bucket4j 4.10.0
- dnsjava 3.2.2
- Hazelcast 3.12.6
- Hazelcast Discovery Plugin for Kubernetes 2.1
- HttpComponents HttpClient 4.5.12
- ipaddress 5.2.1
- Istio 1.1.17
- 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 1.1.2
- jjwt 0.10.7
- JSON-Java 20200518
- json-patch 1.12
- json-schema-validator 1. 0. 43
- Kubernetes Java Client 7.0.0
- Kubernetes Java Client 8.0.2
- Log4J 2.13.1
- Micrometer Registry Prometheus 1.5.1
- netty 4.1.50.Final
- OkHttp 4.7.2
- OpenTracing Spring Jaeger Web Starter 2.0.3
- reactor-netty 0.9.8
- Spring Boot 2.3.4.RELEASE
- Spring Boot 3.3
- Spring Cloud Starter Gateway 2.2.3
- 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-boot-starter-undertow 2.3.3
- spring-cloud-starter-kubernetes 1.1.2
- 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 1.9.0 Components

The following is the list of components for Unified Data Repository 1.9.0:

- Commons Beanutils 1.9.4
- Commons IO 2.6
- Commons Text 1.9
- CXF 3.4.0
- fastjson 1.2.73
- Guava 29.0

- HttpComponents HttpClient 4.5.12
- jackson-core 2.11.2
- jackson-databind 2.11.2
- JSON Schema 1.12.1
- JSON-Java 20200518
- Kubernetes Java Client 8.0.2
- Micrometer 1.5.1
- OkHttp 4.7.2
- OpenTracing Spring Jaeger Starter 3.1.1
- OpenTracing Spring Jaeger Web Starter 3.0.1
- 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

Provider	Component (s)	Licensing Information
Apache 2.0	akka-cluster-sharding 2.5.22	APACHE 2.0 -See Appendix E
Apache 2.0	akka-cluster-sharding 2.6.5	APACHE 2.0 -See Appendix E
Apache 2.0	akka-cluster-sharding 2.6.7	APACHE 2.0 -See Appendix E

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Kubernetes	Helm 2.9.1	APACHE 2.0 - See Appendix E ----- Fourth Party dependencies: Package: cloud.google.com/go URL: https://code.google.com/go/cloud Version: 3b1ae45394a234c385be014e9a488f2bb6eef821 Person: Google APACHE 2.0 - See Appendix E ----- Package: github.com/aokoli/goutils URL: https://github.com/aokoli/goutils Version: 9c37978a95bd5c709a15883b6242714ea6709e64 Person: @aokoli [Alex] APACHE 2.0 - See Appendix E ----- Package: github.com/asaskevich/govalidator URL: https://github.com/asaskevich/govalidator Version: 7664702784775e51966f0885f5cd27435916517b Person: @asaskevich [Alex Saskevich] Copyright (c) 2014 Alex Saskevich MIT - See Appendix G ----- 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 Appendix E ----- 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 Appendix G ----- Package: github.com/Azure/go-autorest URL: https://github.com/Azure/go-autorest Version: e14a70c556c8e0db173358d1a903dca345a8e75e Person: @Azure [Microsoft Azure] APACHE 2.0 - See Appendix E ----- Package: github.com/beorn7/perks URL: https://github.com/beorn7/perks Version: 3ac7bf7a47d159a033b107610db8a1b6575507a4 Person: @beorn7 [Björn Rabenstein] Copyright (C) 2013 Blake Mizerany MIT - See Appendix G ----- Package: github.com/chai2010/gettext-go URL: https://github.com/chai2010/gettext-go Version: bf70f2a70fb1b1f36d90d671a72795984eab0fc

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		org.apache.maven:maven-plugin-api:jar:3.3.9 org.apache.maven:maven-repository-metadata:jar:3.5.4 org.apache.maven:maven-settings:jar:3.3.9 org.apache.maven:maven-settings-builder:jar:3.3.9 org.apache.maven:maven-builder-support:jar:3.5.4 org.apache.commons:commons-lang3:jar:3.9 org.apache.commons:commons-compress:jar:1.18 org.apache.httpcomponents:httpclient:jar:4.5.1 1 org.apache.httpcomponents:httpcore:jar:4.4.1 3 org.freemarker:freemarker:jar:2.3.29 commons-lang:commons-lang:jar:2.6 commons-logging:commons-logging:jar:1.2 commons-codec:commons-codec:jar:1.6 commons-io:commons-io:jar:2.6 <!-- ===== ===== 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 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. ===== ===== 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 <http://www.apache.org>.

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		org.jboss.resteasy:resteasy-jaxb-provider:jar:3.11.2.Final org.jboss.resteasy:resteasy-multipart-provider:jar:3.11.2.Final org.jboss.modules:jboss-modules:jar:1.10.0.Final org.jboss.logging:jboss-logging-processor:jar:2.2.1.Final org.jboss.logging:jboss-logging-annotations:jar:2.2.1.Final org.jboss.jdeparser:jdeparser:jar:2.0.3.Final org.jboss.classfilewriter:jboss-classfilewriter:jar:1.2.4.Final org.jboss.invocation:jboss-invocation:jar:1.5.2.Final org.jboss.marshalling:jboss-marshalling-river:jar:2.0.0.Final Copyright 2016, Red Hat, Inc., and individual contributors as indicated by the @author tags. -----separator----- org.codehaus.mojo:animal-sniffer-annotations:jar:1.14 org.codehaus.woodstox:stax2-api:jar:4.2 Copyright (c) 2009 codehaus.org. 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: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. 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

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		"ImportPath": "github.com/hawkular/hawkular-client-go/metrics", "Comment": "v0.5.1-1-g1d46ce7", "ImportPath": "github.com/inconshreveable/mousetrap", "Comment": "v1.0", "ImportPath": "github.com/influxdata/influxdb", "Comment": "v1.1.1", "ImportPath": "github.com/jmespath/go-jmespath", "Comment": "0.2.2-12-g0b12d6b", "ImportPath": "github.com/jonboulle/clockwork", "ImportPath": "github.com/libopenstorage/openstorage", "ImportPath": "github.com/lpabon/godbc", "Comment": "v1.0-1-g9577782", "ImportPath": "github.com/mattproud/golang_protobuf_extensions/pbutil", "ImportPath": "github.com/mindprince/gonvm", "ImportPath": "github.com/mistifyio/go-zfs", "Comment": "v2.1.1-5-g1b4ae6f", "ImportPath": "github.com/mrunalp/fileutils", "ImportPath": "github.com/opencontainers", "Comment": "v1.0.0-rc1-5-g4a2974b", "ImportPath": "github.com/prometheus", "Comment": "v0.8.0-83-ge7e9030", "ImportPath": "github.com/rancher/go-rancher/client", "Comment": "v0.1.0-196-g09693a8", "ImportPath": "github.com/spf13", "ImportPath": "github.com/square/go-jose", "ImportPath": "github.com/vishvananda", "ImportPath": "github.com/vmware/govmomi", "Comment": "v0.14.0-11-gb8b228c", "ImportPath": "github.com/vmware/photom-controller-go-sdk", "Comment": "PROMOTED-488", "ImportPath": "github.com/xanzy/go-cloudstack/cloudstack", "Comment": "v2.1.1-1-g1e2cbf6", "ImportPath": "go4.org/errorutil", "ImportPath": "google.golang.org/grpc", "Comment": "v1.3.0", "ImportPath": "k8s.io/gengo", "ImportPath": "k8s.io/heapster/metrics/api/v1/types", "Comment": "v1.2.0-beta.1", "ImportPath": "k8s.io/kube-openapi", "ImportPath": "k8s.io/utils" For Apache License, Version 2.0 - See Appendix E ----- ----- The following 4th party is under MIT licensing each listed with the copyright, license listed in full below: "ImportPath": "bitbucket.org/bertimus9/systemstat", Copyright (c) 2013 Phillip Bond "ImportPath": "bitbucket.org/ww/goautoneg", "Comment": "null-5", Copyright (c) 2011, Open Knowledge Foundation Ltd. "ImportPath": "github.com/MakeNowJust/heredoc", MIT "

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Provider	Component (s)	Licensing Information
		beans:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-context:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-core:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-expression:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #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 * * https://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. */ FOURTH-PARTY DEPENDENCY #1 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.3.1 FOURTH-PARTY DEPENDENCY #2 io.opentracing.contrib:opentracing-spring-web:3.0.1 FOURTH-PARTY DEPENDENCY #3 io.opentracing:opentracing-api:0.33.0 FOURTH-PARTY DEPENDENCY #4 io.opentracing:opentracing-noop:0.33.0 FOURTH-PARTY DEPENDENCY #5 io.opentracing:opentracing-util:0.33.0 FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-tracerresolver:0.1.8 FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-web-servlet-filter:0.4.0 FOURTH-PARTY DEPENDENCY #8 org.springframework.boot:spring-boot:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #9 org.springframework.boot:spring-boot-autoconfigure:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #10 org.springframework:spring-aop:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY

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

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opentracing-contrib	OpenTracing Spring Web 0.3.2	APACHE 2.0 - See Appendix E 4 th - party dependency: opentracing-web-servlet-filter v0.1.0 APACHE 2.0 - See Appendix E
opentracing-contrib	OpenTracing Spring Web 1.1.1	APACHE 2.0 - See Appendix E 4 th - party dependency: opentracing-web-servlet-filter v0.1.0 APACHE 2.0 - See Appendix E

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		spring-boot-test 2.2.0.RELEASE org.springframework.boot » spring-boot-test- autoconfigure 2.2.0.RELEASE org.xmlunit » xmlunit-core 2.6.3 org.assertj » assertj- core 3.13.2 com.jayway.jsonpath » json- path 2.4.0 http://www.apache.org/licenses/ LICENSE-2.0.txt APACHE 2.0 - See Appendix E
Pivotal Software Inc.	Spring-boot-starter 2.1.7	APACHE 2.0 - See Appendix E

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Provider	Component (s)	Licensing Information
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		FOURTH-PARTY DEPENDENCY #20 LICENSE See Appendix U

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Provider	Component (s)	Licensing Information
		com.fasterxml.jackson.core:jackson-databind:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #17] +- com.fasterxml.jackson.core:jackson-core:2.10.1:compile [FOURTH-PARTY DEPENDENCY #18] \- 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 https://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 [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 https://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. [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 http://creativecommons.org/publicdomain/zero/1.0/ [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

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		FOURTH-PARTY DEPENDENCY #9 org.jboss.logging:jboss-logging:3.3.2.Final FOURTH-PARTY DEPENDENCY #10 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #11 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #11A org.springframework.boot:spring-boot:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #11B org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-context:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-core:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #16A org.springframework:spring-jcl:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17 org.springframework:spring-web:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-webmvc:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #19 org.hibernate.validator:hibernate-validator:6.0.17.Final FOURTH-PARTY DEPENDENCY #19A org.yaml:snakeyaml:1.23 COMMON LICENSE NOTICE APACHE 2.0 - See Appendix E

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

Provider	Component (s)	Licensing Information
		Copyright (C) 1999-2015, QOS.ch. All rights reserved. EPL 1.0 GPL 2.1 Eclipse Public License - v 1.0 See Appendix J GNU Lesser General Public License Version 2.1, February 1999 Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Eclipse Public License - v 1.0 See Appendix J GNU General Public License, Version 2 (GPL-2.1) See Appendix B ----- org.yaml:snakeyaml:jar:1.25 Copyright (c) 2008, http://www.snakeyaml.org Apache License 2.0 ----- org.slf4j:jul-to-slf4j:jar:1.7.30 org.slf4j:slf4j-api:jar:1.7.30 org.slf4j:slf4j-parent:pom:1.7.30 Copyright (c) 2004-2017 QOS.ch MIT License See Appendix G

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

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

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

Provider	Component (s)	Licensing Information
		[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 [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 https://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. [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 [FOURTH-PARTY DEPENDENCY #03] org.yaml:snakeyaml:jar:1.25:runtime [FOURTH-PARTY DEPENDENCY #03] COPYRIGHT NOTICE Copyright (c) 2008, http://www.snakeyaml.org 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. Copyright 2003-2010 Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland www.source-code.biz, www.inventec.ch/chdh 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, http://www.eclipse.org/legal LGPL, GNU Lesser General Public License, V2.1

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

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

Provider	Component (s)	Licensing Information
		[FOURTH-PARTY DEPENDENCY #14] +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #15] \- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16] \- org.springframework:spring-webmvc:jar:5.2.2.RELEASE:compile [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 Apache License, Version 2.0 Apache License, Version 2.0 See Appendix E For Eclipse Public License - v 2.0, refer Appendix Y For GNU LESSER GENERAL PUBLIC LICENSE Version 2.1, refer Appendix T For GNU GENERAL PUBLIC LICENSE Version 2, refer Appendix B ===== ===== === EARLIER VERSION OF LICENSES AND COPYRIGHT NOTICES TEXT ===== ===== ===== The only known dependencies (direct & 4th party) that will be used at build/runtime based on "mvn dependency:tree" are +- org.springframework.boot:spring-boot-starter-web:jar:2.2.2.RELEASE:compile +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile +- jakarta.annotation:jakarta.annotation-api:jar:1.3.5:compile \- org.yaml:snakeyaml:jar:1.25:runtime +- org.springframework.boot:spring-boot-starter-json:jar:2.2.2.RELEASE:compile +- com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.1:compile \- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.1:compile +- org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.2.RELEASE:compile \- org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.29:compile +- org.springframework.boot:spring-boot-starter-validation:jar:2.2.2.RELEASE:compile +- jakarta.validation:jakarta.validation-api:jar:2.0.1:compile \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile +-

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

Provider	Component (s)	Licensing Information
		org.jboss.logging:jboss-logging:jar:3.4.1.Final:compile \- com.fasterxml:classmate:jar:1.5.1:compile +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile \- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile \- org.springframework:spring-webmvc:jar:5.2.2.RELEASE:compile +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile \- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile Apache License, Version 2.0 See Appendix E For Eclipse Public License - v 2.0, refer Appendix Y

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

Provider	Component (s)	Licensing Information
Spring IO	spring-boot-starter-webflux 2.2.6.RELEASE	org.springframework.boot:spring-boot-starter-webflux:jar:2.2.3.RELEASE:compile Copyright © 2020 Pivotal Software, Inc. All Rights Reserved Apache License, Version 2.0 See Appendix E The list of 4th party dependencies: [FOURTH-PARTY DEPENDENCY #01] +- org.springframework:spring-web:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] +- org.springframework:spring-beans:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #03] \- org.springframework:spring-core:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #04] \- org.springframework:spring-jcl:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #05] +- org.springframework:spring-webflux:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] \- io.projectreactor:reactor-core:jar:3.3.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07] \- org.reactivestreams:reactive-streams:jar:1.0.3:compile [FOURTH-PARTY DEPENDENCY #08] + - org.springframework.boot:spring-boot-starter:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] +- org.springframework.boot:spring-boot-starter-json:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] +- com.fasterxml.jackson.core:jackson-databind:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #11] + - com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #12] + - com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #13] +- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #14] +- org.springframework.boot:spring-boot-starter-reactor-netty:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #15] +- org.glassfish.jakarta.el:jar:3.0.3:compile [FOURTH-PARTY DEPENDENCY #16] \- io.projectreactor.netty:reactor-netty:jar:0.9.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #17] +- io.netty:netty-codec-

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

Provider	Component (s)	Licensing Information
		http:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #18] +- io.netty:netty-common:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #19] + - io.netty:netty-buffer:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #20] +- io.netty:netty-transport:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #21] \- io.netty:netty-resolver:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #22] \- io.netty:netty-codec:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #23] +- io.netty:netty-codec-http2:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #24] +- io.netty:netty-handler:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #25] +- io.netty:netty-handler-proxy:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #26] \- io.netty:netty-codec-socks:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #27] \- io.netty:netty-transport-native-epoll:jar:linux-x86_64:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #28] \- io.netty:netty-transport-native-unix-common:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #29] + - org.springframework.boot:spring-boot-starter-validation:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #30] +- jakarta.validation:jakarta.validation-api:jar:2.0.2:compile [FOURTH-PARTY DEPENDENCY #31] \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile [FOURTH-PARTY DEPENDENCY #32] \- org.synchronoss.cloud:nio-multipart-parser:jar:1.1.0:compile [FOURTH-PARTY DEPENDENCY #33] +- org.slf4j:slf4j-api:jar:1.7.30:compile [FOURTH-PARTY DEPENDENCY #34] \- org.synchronoss.cloud:nio-stream-storage:jar:1.1.3:compile [FOURTH-PARTY DEPENDENCY #01]org.springframework:spring-web:jar:5.2.3.RELEASE [FOURTH-PARTY DEPENDENCY #01]COPYRIGHT NOTICE Copyright 2002-2020 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 https://www.apache.org/

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		FOURTH-PARTY DEPENDENCY #35 org.springframework.boot:spring-boot-starter-webflux:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #36 org.springframework.cloud:spring-cloud-commons:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #37 org.springframework.cloud:spring-cloud-context:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #38 org.springframework.cloud:spring-cloud-gateway-core:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #39 org.springframework.cloud:spring-cloud-starter:2.1.2.RELEASE
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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- c. Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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B

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License does. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution, and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library." The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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Terms and Conditions for Copying, Distribution, And Modification

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution, and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a. The modified work must itself be a software library.

b. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, does not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

5. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

6. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library." Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library." The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

7. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) operates properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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C

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version."

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

2. Exception to Section 3 of the GNU GPL.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a. under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
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You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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- b. Accompany the Combined Work with a copy of the GNU GPL and this license document.
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1. Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

2. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

- e. Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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===== File 12 of 38: ext/gd/libgd/README

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===== File 17 of 38: ext/mbstring/libmbfl/filters/cp932_table.h
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===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c
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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 30 of 38: sapi/fpm/fpm/fpm_log.c

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 Knockout Fast Foreach v0.6.0 (2016-07-28T11:02:54.197Z)

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* webcomponents/custom-elements - v1.0.8

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* <https://github.com/guybedford/require-css>

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* crossroads <<http://millermedeiros.github.com/crossroads.js/>>

* Author: Miller Medeiros | MIT License

* v0.12.0 (2013/01/21 13:47)

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ES6-Promise v1.0.0

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* History API JavaScript Library v4.1.0

*

* Support: IE8+, FF3+, Opera 9+, Safari, Chrome and other

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* <http://jqueryui.com>

* Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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* jQuery JavaScript Library v2.2.3

* <http://jquery.com/>

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* Includes Sizzle.js

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Richard Greenwood richATgreenwoodmap.com

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