

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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Introduction

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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, Cloud Native Environment - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network. This CNE SKU is an optional SKU only when the customer is purchasing the CNE from Oracle. Given license provide access to following capabilities: Cloud Native Environment (CNE), CNCF Tools Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Cloud Native Environment - 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 - 25K Active Subscribers • Oracle Communications Cloud Native Core, Diameter Routing Agent - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - 25K Active Subscribers • Oracle Communications Cloud Native Core , Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers

Product	Sub product	Licensing Information
		• Oracle Communications Cloud Native Core , Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Management - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, NWDAF - 25K Active Subscribers
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Authentication Server Function - 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. 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	Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers	Description: This subproduct adds the following optional features to the Oracle Communications Cloud Native Core for Service Communication Proxy (SCP) and Security Edge Protection Proxy (SEPP): • Message manipulation between HTTP <=> HTTP. Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers Perpetual, or • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Perpetual
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Interworking and Mediation Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following optional features to the Oracle Communications Cloud Native Core for Service Communication Proxy (SCP) NB-IoT and Security Edge Protection Proxy (SEPP) NB-IoT: • Message manipulation between HTTP <=> HTTP. Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, InterWorking and Mediation Function for NB-IoT- per 25K Active Subscribers: Perpetual • Oracle Communications Cloud Native Core, Service Communication Proxy NB-IoT - 25K Active Subscribers Perpetual, or • Oracle Communications Cloud Native Core, Security Edge Protection Proxy NB-IoT - 25K Active Subscribers Perpetual

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Binding Support Function - 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. Counting Mechanism: BSF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack B - per 25K Active Subscribers	Description: This sub-product adds optional features to Binding Support Function. Prerequisites: The following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack B - per 25K Active Subscribers: Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Converged Policy - 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. Counting Mechanism: cnPCRF and PCF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack B - per 25K Active Subscribers	Description: This sub-product adds optional features to Converged Policy. Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack B - 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	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. Network Function license provides Console and Data Tier capabilities. Prerequisites : None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Converged Signaling - 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	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 Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Exposure Function - 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. Counting Mechanism: NEF counts unique device identifiers as it processes messages

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Repository Function - 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. 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
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack B - per 25K Active Subscribers	Description: This sub-product adds optional features to Network Repository Function. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack B - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Repository Function – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Slice Selection Function - 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. Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None. Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy Control Function - 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. Counting Mechanism: PCF counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None. Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function - 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. Counting Mechanism: cnPCRF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	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). Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Routing and Selection Domain - 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.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 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. Counting Mechanism: SEPP counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Service Communication Proxy - 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. Counting Mechanism: SCP counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack B - per 25K Active Subscribers	Description: This sub-product adds optional features to Service Communication Proxy. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack B - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Subscriber Location Function - 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. Counting Mechanism: SLF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack B – per 25K Active Subscribers	Description: This sub-product adds optional features to Subscriber Location Function. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack B - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unified Data Repository - 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. Counting Mechanism: UDR counts unique device identifiers that it has activated

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	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. Network Function license provides Console and Data Tier capabilities. 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 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. 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 Cloud Native Core	Oracle Communications Cloud Native Core, Automated Test Tools and Scripts Suite - 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 Suite 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 Cloud Native Core, Automated Test Tools and Scripts Suite – per Node. Any Oracle Communications Cloud Native Core Network Function, except: • Oracle Communications Cloud Native Core, 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	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	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	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	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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual provides tools and capabilities to run cloud native network functions in the network. This optional license provide access to following capabilities: • Cloud Native Environment (CNE) • CNCF Tools Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Binding Support Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Exposure Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual

Product	Sub product	Licensing Information
		Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Exposure Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Exposure Function for NB-IoT (NEF for NB-IoT) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF for NB-IoT use-case. The NEF for NB-IoT 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Exposure Function for NB-IoT - 25K Active Subscribers Perpetual 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. Counting Mechanism: NEF for NB-IoT counts unique device identifiers as it processes messages

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Repository Function for NB-IoT (NRF for NB-IoT) 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 Entitled Products and Restricted Use Licenses: Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 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. Counting Mechanism: If SLF for NB-IoT is deployed in addition to the NRF: the SLF for NB-IoT counts unique device identifiers as it processes messages. If SLF for NB-IoT 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	Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function for NB-IoT (NSSF for NB-IoT) 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual, 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. Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Security Edge Protection Proxy for NB-IoT (SEPP NB-IoT) 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 for NB-IoT 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 NB-IoT has visibility into each aspect of a transaction. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 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. Counting Mechanism: SEPP NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Service Communication Proxy for NB-IoT (SCP NB IoT) 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual 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. Counting Mechanism: SCP NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following feature to the Oracle Communications Cloud Native Core. The Subscriber Location Function for NB-IoT (SLF NB-IoT) 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: One of the following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function for NB-IoT - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 25K Active Subscribers Perpetual Counting Mechanism: SLF NB-IoT counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function for NB-IoT (PCF NB-IoT) allows the customer to support centralized policy management in their 5G core network. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual 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. Counting Mechanism: PCF NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Binding Support Function for NB-IoT (BSF NB-IoT) provides session binding functionality, which ensures request for session reaches the relevant PCF NB-IoT 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Binding Support Function for NB-IoT - 25K Active Subscribers Perpetual, 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. Counting Mechanism: BSF NB-IoT counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unified Data Repository for NB-IoT (UDR NB-IoT) 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 NB-IoT are collectively known as application front ends. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 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. Counting Mechanism: UDR NB-IoT counts unique device identifiers that it has activated

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unstructured Data Storage Function for NB-IoT (UDSF NB-IoT) 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 25K active subscribers perpetual. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual 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. Counting Mechanism: Since UDR NB-IoT is a prerequisite for UDSF NB-IoT. UDR NB-IoT counts unique device identifiers that it has activated.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual	Description: Routing and Selection domain for NB-IoT consists of six Cloud Native Core functions: Service Communication Proxy for NB-IoT, Network Repository Function for NB-IoT, Network Exposure Function for NB-IoT, Network Slice Selection Function for NB-IoT, Security Edge Protection Proxy for NB-IoT, and Interworking and Mediation Function for NB-IoT. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual 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.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual	Description: This functionality provides the Right to Use the Cloud Native Policy and Charging Rules Function for NB-IoT (cnPCRF NB-IoT) and Cloud Native Policy Control Function for NB-IoT (PCF NB-IoT) NFs. The Policy Control Function for NB-IoT allows the customer to support centralized policy management in their 5G core network. The Cloud Native Policy and Charging Rules Function for NB-IoT (cnPCRF NB-IoT) 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 Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual, 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. Counting Mechanism: cnPCRF NB-IoT and PCF NB-IoT counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This sub product 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 for NB-IoT (cnPCRF NB-IoT). The cnPCRF NB-IoT allows the customer to support centralized policy management in their 4G core network. It includes PCRF NB-IoT functionality. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual 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. Counting Mechanism: cnPCRF NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, NWDAF, Device State – 25K Active Subscribers	The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected, and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/subscribe or request/response model. Overall, it allows Customers to drive the analytic-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • UE Mobility Information • UE Abnormal Behavior Information • UE Communication Information Prerequisites: None. Entitled Products and Restricted Use Licenses: None Counting Mechanism: NWDAF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, NWDAF, Network State – 25K Active Subscribers	The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected, and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/subscribe or request/response model. Overall, it allows Customers to drive the analytic-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • Slice Load Level Information • NF Load Information • Network Performance Information • QOS Sustainability Prerequisites: None. Entitled Products and Restricted Use Licenses: None Counting Mechanism: NWDAF counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, NWDAF, Service Experience – per 25K Active Subscribers	Description: This sub product adds the following features to the Oracle Communications Cloud Native Core. The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected, and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/subscribe or request/response model. Overall, it allows Customers to drive the analytics-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • Observed Service Experience Information • User Data Congestion Information Prerequisites: None. Entitled Products and Restricted Use Licenses: None Counting Mechanism: NWDAF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, 5G Equipment Identity Register - 25K Active Subscribers	This subproduct adds the following features to the Oracle Communications Cloud Native Core – • 5G-EIR (Equipment Identity Register) is a network function (NF) as defined by the 3rd Generation Partnership Project (3GPP) • 5G-EIR allows the telecom operator to check the status of the mobile equipment Prerequisites: None. Entitled Products and Restricted Use Licenses: None Counting Mechanism: EIR counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Automated Lifecycle Management - 25K Active Subscribers	This subproduct adds the following features to the Oracle Communications Cloud Native Core: • Continuous Delivery Control Server(CDCS). • It automates the install and upgrade processes of 5G Core Network Functions, reduces inefficiency-errors, and thus generates savings on the operational expenditure for the customer. • It automates downloading, installation, and upgrade of the CNC 5G Network Functions. Prerequisites: The following license is required to use Oracle Communications Cloud Native Core, Automated Lifecycle Management: • Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers Also, any one of following licenses is required in addition to the above license: • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - 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 network functions of Oracle Communications Cloud Native Core, must 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 JDK, used by all the network functions of Oracle Communications Cloud Native Core, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle JDK is not a part of the Cloud Native Core download package. For more information on licensing, refer to the [Oracle JDK End-User Licensing Agreement](#).

**Note:**

Oracle Communication Cloud Native Core uses 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

3.1 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

3.2 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**.

3.2.1 Cloud Native Environment 22.3.0 Components

The following is the list of components for Cloud Native Environment 22.3.0:

- exabgp 4.2.15
- Flask 2.0.2
- HAProxy 2.5.0
- Jenkins 2.319.2
- Kubernetes (Python Package) 23.3.0
- Kubespray 2.19.0
- Prometheus-client 0.11.0
- python-json-logger 2.0.2
- python-openstackclient 5.6.0
- PyYAML 5.4.1
- Schedule 1.1.0
- spring-boot-devtools 2.7.1
- Spring-boot-starter 2.7.1

- spring-boot-starter-actuator 2.7.1
- spring-boot-starter-cache 2.7.1
- spring-boot-starter-data-jpa 2.7.1
- spring-boot-starter-jdbc 2.7.1
- spring-boot-starter-jersey 2.7.1
- spring-boot-starter-jetty 2.7.1
- spring-boot-starter-log4j2 2.7.1
- spring-boot-starter-test 2.7.1
- spring-boot-starter-undertow 2.7.1
- spring-boot-starter-validation 2.7.1
- spring-boot-starter-web 2.7.1
- spring-boot-starter-webflux 2.7.1
- vcd-cli 24.0.1

3.2.2 Automated Test Suite 22.3.0 Components

The following is the list of components for Cloud Native Core Automated Test Suite (ATS) 22.3.0:

- behave 1.2.6
- client-go 0.22.6
- colorlog 6.4.1
- dnspython 2.2.1
- Flask 2.0.2
- geckodriver 0.30.0
- Golang 1.17.10-1.module+el8.6.0+20691+4e76a6d9
- gorilla/mux 1.8.0
- HTML Publisher Plug-in 1.30
- http2 0.0.0-20220607020251-c690dde0001d
- httpx 0.23.0
- Jenkins 2.363
- Jenkins active choices plug-in 2.6.3
- jsonmerge 1.8.0
- jwcrypto 1.0
- Kubernetes Python Client 21.7.0
- kubernetes-client 5.12.2
- Lockable resources plug-in 2.15
- Login Theme Plugin for Jenkins 1.1
- Matrix Authorization Strategy Plug-in 3.1.5

- Pexpect 4.8.0
- Pipeline Plugin 590.v6a_d052e5a_a_b_5
- Prometheus Go client library 1.12.2
- Prometheus Python Client 0.11.0
- pytest 6.2.5
- Python Elasticsearch Client 7.10.1
- pyyaml 5.4.1
- Quart 0.17.0
- requests 2.26.0
- Seagull 1.8.1.2.417-0
- Selenium - Python 4.1.0
- Simple Theme Plugin for Jenkins 103.va_161d09c38c7
- Strict Crumb Issuer Plugin For Jenkins 2.1.0
- test-results-analyzer-plugin 0.3.5
- TinyDB 4.5.2

3.2.3 Binding Support Function 22.3.0 Components

The following is the list of components for Binding Support Function 22.3.0:

- @hapi/inert 6.0.5
- @hapi/wreck 18.0.0
- @hapi/wreck 18.0.0
- behave1.2.6
- bind-utils 9.11.36-3
- Blockly 8.0.0
- Brave 5.13.3
- Brave OpenTracing Java Bridge for Zipkin 1.0.0
- bucket4j 6.0.0
- bucket4j-coherence 6.0.1
- caffeine3.0.5
- client-go 0.22.6
- coherence-spring-boot-starter 3.0.0
- colorlog 6.4.1
- Commons CSV 1.9.0
- Commons IO 2.11.0
- Commons Lang3.12.0
- Commons Pool 2.11.1
- deep-diff 1.0.2

- dnsjava3.4.2
- dnspython 2.2.1
- Equals Verifier 3.7.2
- fastjson1.2.83
- file-saver 2.0.5
- Flask 2.0.2
- gnu tar1.30-5
- Golang 1.16.12-1.module+el8.5.0+20456+eee863d9
- gorilla/mux 1.8.0
- GSON 2.8.9
- Guava 31.1
- gunicorn 20.1.0
- hapi 20.2.1
- HikariCP 5.0.1
- HSQLDB 2.6.0
- HTML Publisher Plug-in 1.28
- http2 0.0.0-20210908191846-a5e095526f91
- HttpComponents HttpClient 4.5.13
- HttpCore NIO 4.4.15
- httpx 0.19.0
- import-fresh 3.3.0
- influxdb-java 2.22
- ip 1.1.8
- ipaddress 5.3.4
- jackson-annotations 2.13.1
- jackson-core 2.12.5
- jackson-core 2.13.1
- jackson-databind 2.13.2.2
- jackson-datatype-joda 2.13.1
- jackson-datatype-jsr3102.12.5
- jackson-datatype-jsr3102.13.3
- jaeger-client-js 3.19.0
- JavaScript Extension Toolkit (JET) 12.1.0
- Javassist 3.28.0-GA
- Jenkins2.319.2
- jenkins 2.289.3
- Jenkins active choices plug-in 2.5.7

- jersey-client 2.35
- jersey-common2.35
- jersey-hk2 2.35
- jersey-media-json-jackson 2.35
- jersey-media-multipart2.35
- jersey-server 2.35
- Jetty 9.4.46.v20220331
- Jetty ReactiveStream HttpClient1.1.11
- Jinja2 3.0.1
- jjwt 0.11.2
- jQuery 3.6.0
- jsonEditor 9.5.6
- jsonmerge 1.8.0
- JsonPath 2.6.0
- json-schema-validator 1.0.71
- js-yaml4.1.0
- JSZip 3.7.1
- jwcrypto 1.0
- Kubernetes Java Client 14.0.0
- Kubernetes Python Client 21.7.0
- kubernetes-client 5.6.0
- LMAX Disruptor3.4.2
- Lockable resources plug-in 2.11
- lodash 4.17.21
- log4j-api 2.17.0
- log4j-api 2.17.1
- log4j-core 2.17.0
- log4j-core 2.17.1
- log4j-jul 2.17.1
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.0
- log4j-web 2.17.1
- Logback 1.3.0-alpha10
- Login Theme Plugin for Jenkins 1.1
- Lombok1.18.22
- matplotlib 3.4.3
- Matrix Authorization Strategy Plug-in 2.6.8

- metrics-core 4.1.32
- micrometer-registry-prometheus 1.9.1
- mocha 9.2.2
- mockito-inline 4.6.1
- mockserver-client-java 5.13.2
- mockserver-netty 5.13.2
- Moment.js 2.29.4
- MyBatis Spring Boot Starter 2.2.2
- net-tools 2.0-0.52.20160912git
- netty 4.1.70.Final
- Node.js 16.14.0-4.module+el8.6.0+20672+19f3909b
- NumPy 1.21.2
- NumPy 1.22.3
- OkHttp 4.10.0
- okhttp-logging-interceptor 4.9.3
- opentracing-javascript 0.14.7
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- pandas 1.3.3
- Pexpect 4.8.0
- Pipeline Plugin 2.6
- Prometheus Go client library 1.11.0
- Prometheus JVM Client Servlet 0.15.0
- Prometheus Python Client 0.11.0
- Protocol Buffers (aka Google protobuf) 3.19.3
- PyMySQL 1.0.2
- pytest 6.2.5
- Python 3.9.6
- Python Elasticsearch Client 7.15.0
- python-dateutil 2.8.2
- pyyaml 5.4.1
- Quart 0.15.1
- Reactor Core 3.3.7.RELEASE
- Reactor Core 3.4.15
- reactor-test 3.3.7
- reactor-test 3.4.15
- requests 2.26.0

- Seagull 1.8.1.2.417-0
- Simple Theme Plugin for Jenkins 0.7
- slf4j-api 1.7.32
- Spring Cloud Starter Gateway 3.0.3
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.19
- Spring Retry 1.3.1
- spring-boot-devtools 2.6.7
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-cache 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-jdbc 2.6.7
- spring-boot-starter-jersey 2.6.7
- spring-boot-starter-jetty 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-oauth2-client 2.5.5
- spring-boot-starter-oauth2-client 2.6.2
- spring-boot-starter-oauth2-resource-server 2.5.5
- spring-boot-starter-test 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-web 2.6.7
- spring-boot-starter-webflux 2.6.7
- spring-cloud-kubernetes-fabric8-discovery 2.0.3
- spring-cloud-kubernetes-fabric8-discovery 2.1.0
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.0
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 2.1.3
- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-kafka 2.8.3
- spring-security-core 5.7.2
- Strict Crumb Issuer Plugin For Jenkins 2.1.0
- test-results-analyzer-plugin 0.3.5
- TinyDB 4.5.1

- TinyDB 4.5.2
- TypeScript 4.6.4
- winston3.6.0
- wiremock 2.31.0
- XStream 1.4.19
- Zipkin 2.23.16
- zipkin-reporter-java 2.16.3

3.2.4 Cloud Native Core Console 22.3.0 Components

The following is the list of components for Cloud Native Core Console 22.3.0:

- bind-utils 9.11.36-3
- Blockly 8.0.0
- bucket4j 6.4.0
- bucket4j-coherence 6.4.0
- coherence-spring-boot-starter 3.0.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- file-saver 2.0.5
- gnu tar 1.30-5
- GSON 2.8.9
- Guava 31.1
- HikariCP 5.0.1
- HSQLDB 2.6.0
- HttpComponents HttpClient 4.5.13
- jackson-databind 2.13.2.2
- jackson-datatype-joda 2.13.1
- JavaScript Extension Toolkit (JET) 12.1.0
- Javassist 3.28.0-GA
- jersey-client 2.35
- jersey-common 2.35
- jersey-hk2 2.35
- jersey-media-json-jackson 2.35
- Jetty 11.0.7
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.4
- jjwt 0.11.2
- JsonPath 2.6.0

- json-schema-validator 1.0.64
- js-yaml 4.1.0
- JSZip 3.7.1
- Keycloak 18.0.0
- Kubernetes Java Client 14.0.0
- kubernetes-client 5.12.2
- lodash 4.17.21
- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.1
- Lombok 1.18.22
- micrometer-registry-prometheus 1.8.0
- micrometer-registry-prometheus 1.9.1
- mocha 9.2.2
- net-tools 2.0-0.52.20160912git
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- Protocol Buffers (aka Google protobuf) 3.19.3
- reactor-netty-http 1.0.16
- slf4j-api 1.7.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.19
- Spring Framework 5.3.21
- spring-boot-devtools 2.6.7
- spring-boot-devtools 2.7.1
- Spring-boot-starter 2.7.1
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-actuator 2.7.1
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-data-jpa 2.7.1
- spring-boot-starter-jdbc 2.7.1
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-log4j2 2.7.1
- spring-boot-starter-oauth2-client 2.6.7
- spring-boot-starter-oauth2-resource-server 2.6.7

- spring-boot-starter-test 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-undertow 2.7.1
- spring-boot-starter-validation 2.7.1
- spring-boot-starter-web 2.6.7
- spring-boot-starter-web 2.7.1
- spring-cloud-kubernetes-fabric8-discovery 2.1.0
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-config 2.1.0
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- Springfox 3.0.0
- spring-kafka 2.8.6
- tcpdump 4.9.3-3
- winston 3.6.0

3.2.5 Network Exposure Function 22.3.0 Components

The following is the list of components for Network Exposure Function 22.3.0:

- bcprov-ext-jdk15on 1.69
- bucket4j 6.4.0
- bucket4j-coherence 6.4.0
- coherence-spring-boot-starter 3.0.0
- Commons IO 2.11.0
- dnsjava3.4.2
- HttpComponents HttpClient 4.5.13
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient3.0.4
- jjwt 0.11.2
- json-schema-validator 1.0.64
- Kubernetes Java Client 14.0.0
- Kubernetes Java Client 15.0.1
- kubernetes-client 5.12.2
- micrometer-registry-prometheus 1.8.0
- OkHttp4.10.0
- okhttp-logging-interceptor 4.9.3
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter4.1.0
- reactor-netty-http 1.0.16

- Spring Cloud Starter Gateway 3.0.7
- spring-boot-devtools 2.6.7
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-oauth2-client 2.6.7
- spring-boot-starter-oauth2-resource-server 2.6.7
- spring-boot-starter-test 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-web 2.6.7
- spring-boot-starter-webflux 2.6.7
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- spring-kafka 2.8.6

3.2.6 Network Repository Function 22.3.0 Components

The following is the list of components for Network Repository Function 22.3.0:

- bcprov-ext-jdk15on 1.69
- bind-utils 9.11.36-3
- bucket4j 6.4.0
- bucket4j-coherence 6.4.0
- coherence-spring-boot-starter 3.0.0
- Commons IO 2.11.0
- dnsjava 3.4.2
- Flask 2.0.2
- gnu tar 1.30-5
- GSON 2.8.9
- Guava 31.1
- gunicorn 20.1.0
- HttpComponents Client 5.1.3
- HttpComponents HttpClient 4.5.13
- ipaddress 5.3.4
- jackson-databind 2.13.2.2
- jackson-datatype-joda 2.13.1
- jersey-client 2.35

- jersey-hk2 2.35
- Jetty 11.0.7
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.4
- Jinja2 3.0.1
- jjwt 0.11.2
- JsonPath 2.6.0
- json-schema-validator 1.0.64
- Kubernetes Java Client 14.0.0
- Kubernetes Python Client 21.7.0
- kubernetes-client 5.12.2
- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-layout-template-json 2.17.2
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.1
- Logback 1.3.0-alpha10
- Lombok 1.18.22
- matplotlib 3.4.3
- micrometer-registry-prometheus 1.8.0
- micrometer-registry-prometheus 1.9.1
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- pandas 1.3.3
- Prometheus Python Client 0.11.0
- Protocol Buffers (aka Google protobuf) 3.19.3
- PyMySQL 1.0.2
- python-dateutil 2.8.2
- pyyaml 5.4.1
- Reactor Core 3.4.15
- reactor-netty-http 1.0.16
- requests 2.26.0
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.21
- Spring Retry 1.3.1

- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-oauth2-client 2.6.7
- spring-boot-starter-oauth2-resource-server 2.6.7
- spring-boot-starter-test 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-web 2.6.7
- spring-boot-starter-webflux 2.6.7
- spring-cloud-kubernetes-fabric8-discovery 2.1.0
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-config 2.1.0
- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-kafka 2.8.6
- tcpdump 4.9.3-3

3.2.7 Network Slice Selection Function 22.3.0 Components

The following is the list of components for Network Slice Selection Function 22.3.0:

- bcprov-ext-jdk15on 1.69
- bucket4j 6.4.0
- bucket4j-coherence 6.0.1
- bucket4j-coherence 6.4.0
- coherence-spring-boot-starter 3.0.0
- Commons IO 2.11.0
- dnsjava 3.4.2
- Guava 31.1
- HttpComponents Client 5.1.3
- HttpComponents HttpClient 4.5.13
- ipaddress 5.3.4
- jackson-core 2.13.1
- jackson-databind 2.13.2.2
- Jetty 11.0.7
- Jetty 11.0.11

- Jetty ReactiveStream HttpClient 1.1.8
- Jetty ReactiveStream HttpClient 3.0.4
- jjwt 0.11.2
- joda-time 2.10.10
- json-schema-validator 1.0.64
- Kubernetes Java Client 14.0.0
- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.1
- micrometer-registry-prometheus 1.8.0
- micrometer-registry-prometheus 1.9.1
- netty 4.1.70.Final
- OkHttp 4.10.0
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- Protocol Buffers (aka Google protobuf) 3.19.3
- reactor-core 3.4.18
- reactor-netty-http 1.0.16
- Spring Cloud Starter Gateway 3.0.3
- Spring Cloud Starter Gateway 3.0.7
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-oauth2-client 2.6.7
- spring-boot-starter-oauth2-resource-server 2.6.7
- spring-boot-starter-test 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-web 2.6.7
- spring-cloud-kubernetes-fabric8-discovery 2.0.3
- spring-cloud-kubernetes-fabric8-discovery 2.1.0
- spring-cloud-starter-kubernetes-fabric8 2.0.3
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-config 2.0.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.0

- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0

3.2.8 Cloud Native Core Policy 22.3.0 Components

The following is the list of components for Cloud Native Core Policy 22.3.0:

- @hapi/inert 6.0.5
- @hapi/wreck 18.0.0
- @hapi/wreck 18.0.0
- behave 1.2.6
- bind-utils 9.11.36-3
- Blockly 8.0.0
- Brave 5.13.3
- Brave OpenTracing Java Bridge for Zipkin 1.0.0
- bucket4j 6.0.0
- bucket4j-coherence 6.0.1
- caffeine 3.0.5
- client-go 0.22.6
- coherence-spring-boot-starter 3.0.0
- colorlog 6.4.1
- Commons CSV 1.9.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- Commons Pool 2.11.1
- deep-diff 1.0.2
- dnsjava 3.4.2
- dnspython 2.2.1
- Equals Verifier 3.7.2
- fastjson 1.2.83
- file-saver 2.0.5
- Flask 2.0.2
- gnu tar 1.30-5
- Golang 1.16.12-1.module+el8.5.0+20456+eee863d9
- gorilla/mux 1.8.0
- GSON 2.8.9
- Guava 31.1
- gunicorn 20.1.0
- hapi 20.2.1

- HikariCP 5.0.1
- HSQLDB 2.6.0
- HTML Publisher Plug-in 1.28
- http2 0.0.0-20210908191846-a5e095526f91
- HttpComponents HttpClient 4.5.13
- HttpCore NIO 4.4.15
- httpx 0.19.0
- import-fresh 3.3.0
- influxdb-java 2.22
- ip 1.1.8
- ipaddress 5.3.4
- jackson-annotations 2.13.1
- jackson-core 2.12.5
- jackson-core 2.13.1
- jackson-databind 2.13.2.2
- jackson-datatype-joda 2.13.1
- jackson-datatype-jsr310 2.13.3
- jaeger-client-js 3.19.0
- JavaScript Extension Toolkit (JET) 12.1.0
- Javassist 3.28.0-GA
- Jenkins 2.319.2
- jenkins 2.289.3
- Jenkins active choices plug-in 2.5.7
- jersey-client 2.35
- jersey-common 2.35
- jersey-hk2 2.35
- jersey-media-json-jackson 2.35
- jersey-media-multipart 2.35
- jersey-server 2.35
- Jetty 9.4.46.v20220331
- Jetty ReactiveStream HttpClient 1.1.11
- Jinja2 3.0.1
- jjwt 0.11.2
- jQuery 3.6.0
- jsonEditor 9.5.6
- jsonmerge 1.8.0
- JsonPath 2.6.0

- json-schema-validator 1.0.71
- js-yaml 4.1.0
- JSZip 3.7.1
- jwcrypto 1.0
- Kubernetes Java Client 14.0.0
- Kubernetes Python Client 21.7.0
- kubernetes-client 5.6.0
- LMAX Disruptor 3.4.2
- Lockable resources plug-in 2.11
- lodash 4.17.21
- log4j-api 2.17.0
- log4j-api 2.17.1
- log4j-core 2.17.0
- log4j-core 2.17.1
- log4j-jul 2.17.1
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.0
- log4j-web 2.17.1
- Logback 1.3.0-alpha10
- Login Theme Plugin for Jenkins 1.1
- Lombok 1.18.22
- matplotlib 3.4.3
- Matrix Authorization Strategy Plug-in 2.6.8
- metrics-core 4.1.32
- micrometer-registry-prometheus 1.9.1
- mocha 9.2.2
- mockito-inline 4.6.1
- mockserver-client-java 5.13.2
- mockserver-netty 5.13.2
- Moment.js 2.29.4
- MyBatis Spring Boot Starter 2.2.2
- net-tools 2.0-0.52.20160912git
- netty 4.1.70.Final
- Node.js 16.14.0-4.module+el8.6.0+20672+19f3909b
- NumPy 1.21.2
- NumPy 1.22.3
- OkHttp 4.10.0

- okhttp-logging-interceptor 4.9.3
- opentracing-javascript 0.14.7
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- pandas 1.3.3
- Pexpect 4.8.0
- Pipeline Plugin 2.6
- Prometheus Go client library 1.11.0
- Prometheus JVM Client Servlet 0.15.0
- Prometheus Python Client 0.11.0
- Protocol Buffers (aka Google protobuf) 3.19.3
- PyMySQL 1.0.2
- pytest 6.2.5
- Python 3.9.6
- Python Elasticsearch Client 7.15.0
- python-dateutil 2.8.2
- pyyaml 5.4.1
- Quart 0.15.1
- Reactor Core 3.3.7.RELEASE
- Reactor Core 3.4.15
- reactor-test 3.3.7
- reactor-test 3.4.15
- requests 2.26.0
- Seagull 1.8.1.2.417-0
- Simple Theme Plugin for Jenkins 0.7
- slf4j-api 1.7.32
- Spring Cloud Starter Gateway 3.0.3
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.19
- Spring Retry 1.3.1
- spring-boot-devtools 2.6.7
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-cache 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-jdbc 2.6.7
- spring-boot-starter-jersey 2.6.7

- spring-boot-starter-jetty 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-oauth2-client 2.5.5
- spring-boot-starter-oauth2-client 2.6.2
- spring-boot-starter-oauth2-resource-server 2.5.5
- spring-boot-starter-test 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-web 2.6.7
- spring-boot-starter-webflux 2.6.7
- spring-cloud-kubernetes-fabric8-discovery 2.0.3
- spring-cloud-kubernetes-fabric8-discovery 2.1.0
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.0
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 2.1.3
- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-kafka 2.8.3
- spring-security-core 5.7.2
- spring-security-oauth2 2.5.2.RELEASE
- Strict Crumb Issuer Plugin For Jenkins 2.1.0
- test-results-analyzer-plugin 0.3.5
- TinyDB 4.5.1
- TinyDB 4.5.2
- TypeScript 4.6.4
- winston 3.6.0
- wiremock 2.31.0
- XStream 1.4.19
- Zipkin 2.23.16
- zipkin-reporter-java 2.16.3

3.2.9 Security Edge Protection Proxy 22.3.0 Components

The following is the list of components for Security Edge Protection Proxy 22.3.0:

- bcprov-ext-jdk15on 1.69
- bind-utils 9.11.36-3
- bucket4j 6.4.0

- bucket4j-coherence 6.4.0
- coherence-spring-boot-starter 3.0.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- dnsjava 3.4.2
- Drools 7.67.0 Final
- Flask 2.0.2
- gnu tar 1.30-5
- GSON 2.8.9
- Guava 31.1
- gunicorn 20.1.0
- HttpComponents Client 5.1.3
- HttpComponents HttpClient 4.5.13
- ipaddress 5.3.4
- jackson-annotations 2.13.1
- jackson-core 2.13.1
- jackson-core 2.13.2
- jackson-databind 2.13.2.2
- jackson-datatype-joda 2.13.1
- jackson-datatype-joda 2.13.2
- jersey-client 2.35
- jersey-hk2 2.35
- jersey-media-json-jackson 2.35
- Jetty 9.4.46.v20220331
- Jetty 11.0.7
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.4
- Jetty ReactiveStream HttpClient 3.0.6
- Jinja2 3.0.1
- jjwt 0.11.2
- JSON in Java 20220320
- JsonPath 2.6.0
- json-schema-validator 1.0.64
- Kubernetes Java Client 14.0.0
- Kubernetes Python Client 21.7.0
- kubernetes-client 5.12.2
- LMAX Disruptor 3.4.2

- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-layout-template-json 2.17.2
- log4j-web 2.17.1
- Logback 1.3.0-alpha10
- Lombok 1.18.22
- matplotlib 3.4.3
- micrometer-registry-prometheus 1.8.0
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.1
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- OkHttp 4.10.0
- okhttp-logging-interceptor 4.9.3
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- org.jacoco.agent 0.8.7
- pandas 1.3.3
- Prometheus Python Client 0.11.0
- Protocol Buffers (aka Google protobuf) 3.19.3
- PyMySQL 1.0.2
- python-dateutil 2.8.2
- pyyaml 5.4.1
- Reactor Core 3.4.15
- reactor-core 3.4.18
- reactor-netty-http 1.0.16
- requests 2.26.0
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.19
- Spring Framework 5.3.21
- Spring-boot-starter 2.7.1
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-actuator 2.7.1
- spring-boot-starter-cache 2.6.7
- spring-boot-starter-cache 2.7.1
- spring-boot-starter-data-jpa 2.6.7

- spring-boot-starter-data-jpa 2.7.1
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-log4j2 2.7.1
- spring-boot-starter-oauth2-client 2.6.7
- spring-boot-starter-oauth2-resource-server 2.6.7
- spring-boot-starter-test 2.6.7
- spring-boot-starter-test 2.7.1
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-undertow 2.7.1
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-validation 2.7.1
- spring-boot-starter-web 2.6.7
- spring-boot-starter-web 2.7.1
- spring-boot-starter-webflux 2.6.7
- spring-boot-starter-webflux 2.7.1
- spring-cloud-kubernetes-fabric8-discovery 2.1.0
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-config 2.1.0
- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-kafka 2.8.6
- tcpdump 4.9.3-3

3.2.10 Service Communication Proxy 22.3.0 Components

The following is the list of components for Service Communication Proxy 22.3.0:

- bind-utils 9.11.26-6
- bucket4j 7.0.0
- client-go 0.22.6
- Commons IO 2.11.0
- Commons Lang 3.12.0
- dnsjava 3.4.2
- Drools 7.67.0 Final
- gnu tar 1.30-5
- ipaddress 5.3.4
- jackson-databind 2.13.2.2
- jackson-dataformat-yaml 2.13.2
- jackson-datatype-joda 2.13.2

- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.4
- JSON in Java 20220320
- json-patch 1.13
- Kubernetes Java Client 14.0.0
- micrometer-registry-prometheus 1.9.1
- net-tools 2.0-0.52.20160912git
- opentracing-spring-jaeger-web-starter 3.3.1
- reactor-core 3.4.18
- reactor-netty-http 1.0.16
- Spring Retry 1.3.3
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-boot-starter-webflux 2.6.7
- springdoc-openapi-ui 1.6.4
- spring-kafka 2.8.6
- tcpdump 4.9.3-2

3.2.11 Unified Data Repository 22.3.0 Components

The following is the list of components for Unified Data Repository 22.3.0:

- bind-utils 9.11.36-3
- bucket4j 6.4.0
- bucket4j-coherence 6.4.0
- caffeine 3.0.5
- Commons IO 2.11.0
- Commons Text 1.9
- CXF 3.4.4
- dnsjava 3.4.2
- Flask 2.0.2
- gnu tar 1.30-5
- Guava 31.1
- gunicorn 20.1.0
- HttpComponents Client 5.1.3

- `ipaddress` 5.3.4
- `jackson-core` 2.13.0
- `jackson-databind` 2.13.2.2
- `jackson-datatype-joda` 2.13.1
- `jersey-client` 2.35
- `jersey-hk2` 2.35
- `Jetty` 9.4.46.v20220331
- `Jetty` 11.0.11
- `Jetty ReactiveStream HttpClient` 3.0.4
- `Jinja2` 3.0.1
- `jjwt` 0.11.2
- `JSON in Java` 20210307
- `JSON Schema` 1.12.2
- `json-schema-validator` 1.0.64
- `Kubernetes Java Client` 14.0.0
- `Kubernetes Python Client` 18.20.0
- `Kubernetes Python Client` 21.7.0
- `kubernetes-client` 5.12.2
- `log4j-api` 2.17.1
- `log4j-core` 2.17.1
- `log4j-jul` 2.17.1
- `log4j-slf4j-impl` 2.17.1
- `log4j-web` 2.17.1
- `Lombok` 1.18.22
- `matplotlib` 3.4.3
- `micrometer-registry-prometheus` 1.9.1
- `net-tools` 2.0-0.52.20160912git
- `netty` 4.1.70.Final
- `NumPy` 1.22.3
- `OkHttp` 4.10.0
- `opentracing-spring-jaeger-web-starter` 3.3.1
- `opentracing-spring-web-starter` 4.1.0
- `pandas` 1.3.3
- `Prometheus Python Client` 0.11.0
- `Protocol Buffers (aka Google protobuf)` 3.19.3
- `PyMySQL` 1.0.2
- `python-dateutil` 2.8.2

- pyyaml 5.4.1
- reactor-core 3.4.10
- reactor-netty 1.0.13
- reactor-netty-http 1.0.16
- requests 2.26.0
- slf4j-api 1.7.32
- Spring Batch 4.3.6
- Spring Cloud Starter Gateway 3.0.7
- Spring Retry 1.3.3
- spring-boot-starter 2.6.7
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-jdbc 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-oauth2-client 2.6.7
- spring-boot-starter-oauth2-resource-server 2.6.7
- spring-boot-starter-test 2.6.7
- spring-boot-starter-undertow 2.6.7
- spring-boot-starter-web 2.6.7
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-integration-file 5.5.13
- tcpdump 4.9.3-3

3.2.12 Network Data Analytics Function 22.0.0.0.0 Components

The following is the list of components for Network Data Analytics Function 22.0.0.0.0:

- config-client 1.0.1
- Druid 0.23.0
- Fastapi 0.78.0
- flask-sqlalchemy 2.5.1
- jackson-dataformat-yaml 2.13.2
- Kafka 3.2.0
- kafka-streams 3.1.0
- liquibase-core 4.10.0
- MapLibre GL 1.15.3

- Nginx 1.20.1-1.0.1
- NumPy 1.22.3
- onnxruntime python 1.10.0
- parse-type 0.6.0
- pydruoid 0.6.3
- PyJWT 2.3.0
- python-dateutil 2.8.2
- python-dotenv 0.20.0
- pytz 2022.1
- Redis 7.0.0
- scikit-learn 1.0.2
- Spring Boot Starter Quartz 2.6.7
- Spring Framework 5.3.22
- spring-boot-starter-actuator 2.6.7
- spring-boot-starter-data-jpa 2.6.7
- spring-boot-starter-log4j2 2.6.7
- spring-boot-starter-validation 2.6.7
- spring-cloud-starter 3.1.2
- spring-cloud-starter-bootstrap 3.1.2
- spring-cloud-starter-config 3.1.2
- spring-cloud-stream 3.2.4
- springdoc-openapi-ui 1.6.6
- spring-security-config 5.6.3
- spring-security-web 5.6.3
- SQLAlchemy 1.4.36
- swagger-annotations 2.1.12
- Tensorflow 2.8.1
- uvicorn 0.17.6
- ZooKeeper 3.8.0

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Amenezes	config-client 1.0.1	Apache License, version 2.0 - See Appendix E

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		for JSON written by Robert Fischer. https://github.com/RobertFischer/json-parser For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages are derivative work originating from the Netty project and the finagle-native project developed at Twitter * Copyright 2014 The Netty Project * Copyright 2014 Twitter For portions of the Tomcat cloud support The org.apache.catalina.tribes.membership.cloud package contains derivative work originating from the jgroups project. https://github.com/jgroups-extras/jgroups-kubernetes Copyright 2002-2018 Red Hat Inc. The original XML Schemas for Java EE Deployment Descriptors: - javaee_5.xsd - javaee_web_services_1_2.xsd - javaee_web_services_client_1_2.xsd - javaee_6.xsd - javaee_web_services_1_3.xsd - javaee_web_services_client_1_3.xsd - jsp_2_2.xsd - web-app_3_0.xsd - web-common_3_0.xsd

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		- web-fragment_3_0.xsd - javaee_7.xsd - javaee_web_services_1_4.xsd - javaee_web_services_client_1_4.xsd - jsp_2_3.xsd - web-app_3_1.xsd - web-common_3_1.xsd - web-fragment_3_1.xsd - javaee_8.xsd - web-app_4_0.xsd - web-common_4_0.xsd - web-fragment_4_0.xsd may be obtained from: http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html ----- (separator)----- NAME OF DEPENDENCY - org.hibernate.validator:hibernate-validator: License: Apache License Version 2.0 JBoss, Home of Professional Open Source Copyright 2011, Red Hat, Inc. and/or its affiliates, and individual contributors by the @authors tag. See the copyright.txt in the distribution for a full listing of individual contributors. ===== ===== === /*

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Provider	Component (s)	Licensing Information
		SPDX-License-Identifier: Apache-2.0 ## Source Code The project maintains the following source code repositories: * [The specification repository](https://github.com/eclipse-ee4j/beanvalidation-spec) * [The API repository](https://github.com/eclipse-ee4j/beanvalidation-api) * [The TCK repository](https://github.com/eclipse-ee4j/beanvalidation-tck) ## Third-party Content This project leverages the following third party content. Test dependencies: * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License 2.0 ----- (separator)----- NAME OF DEPENDENCY - org.jboss.logging:jboss-logging: License: Apache License Version 2.0 Text of License: [0] Copyright:

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		Fourth-Party Dependencies ch.qos.logback logback-classic ch.qos.logback logback-core License : Eclipse Public License v1.0 License text : [2] in License reference. Logback: the reliable, generic, fast and flexible logging framework. Copyright (C) 1999-2017, QOS.ch. All rights reserved. This program and the accompanying materials are dual-licensed under either the terms of the Eclipse Public License v1.0 as published by the Eclipse Foundation or (per the licensee's choosing) under the terms of the GNU Lesser General Public License version 2.1 as published by the Free Software Foundation. ===== Fourth-Party Dependencies org.slf4j:slf4j-api MIT License (MIT) See Appendix G ===== ===

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Mockito	mockito-inline 4.6.1	<pre> ----- Top-level license ----- Mockito MIT License (MIT) See Appendix G ----- Copyright notices ----- /* * Copyright (c) 2007 Mockito contributors * This program is made available under the terms of the MIT License. */ ----- Fourth-party information ----- == NAME OF DEPENDENCY 1 mockito-core == License The MIT License MIT License (MIT) See Appendix G == Copyright Notices Copyright (c) 2007 Mockito contributors ----- (separator)----- -- == NAME OF DEPENDENCY 2 byte-buddy </pre>

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Sindre Sorhus	import-fresh 3.3.0	<pre> MIT License Copyright (c) Sindre Sorhus (sindresorhus.com) MIT License (MIT) See Appendix G #####4th party dependencies##### "parent-module": "^1.0.0", MIT MIT License (MIT) See Appendix G </pre>

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		org.apache.tomcat:tomcat-jasper org.apache.tomcat:tomcat-juli org.apache.tomcat:tomcat-jsp-api org.apache.tomcat:tomcat-el-api org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-api org.apache.tomcat:tomcat-util-scan org.apache.tomcat:tomcat-util org.mortbay.jasper:apache-el org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-el-api ----- Mortbay The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/ CDDL+GPL.html org.eclipse.jetty.toolchain:jetty-schemas ----- Assorted The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies. ---

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Willy Tarreau	HAproxy 2.3.10	HAPROXY's license - 2006/06/15 Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols. Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users. For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition. The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem. Of course, users are strongly encouraged to continue the work under GPL as long as possible, since this license has allowed useful enhancements, contributions and fixes from talented people around the world. Due to the incompatibility between the GPL and the OpenSSL licence, you must apply the GPL/LGPL licence with the following exception: This program is released under the GPL with the additional exemption that compiling, linking, and/or using

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Apache	HttpClient 4.5.12	Apache HttpComponents HttpClient 4.5.10 Copyright 1999-2019 The Apache Software Foundation APACHE 2.0 - See Appendix E ----- Modules: ***** httpclient httpmime fluent-hc httpclient-cache httpclient-win httpclient-osgi ----- 4P Dependencies: commons-codec » commons-codec 1.11, commons-codec-1.12.jar COPYRIGHT: Copyright 2002-2017 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/commons-codec-1.11/LICENSE.txt commons-logging » commons-logging 1.2 COPYRIGHT: Copyright 2003-2014 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt org.apache.httpcomponents » httpcore 4.4.11 COPYRIGHT: Copyright 2005-2019 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-core/blob/4.4.11/LICENSE.txt commons-lang3-3.9.jar

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		reasons. Only packages that specifically contain word 'json' are JSON-specific. This package is the base on which [Jackson data-binding] (https://github.com/FasterXML/jackson-databind) package builds on. It is licensed under [Apache License 2.0] (http://www.apache.org/licenses/LICENSE-2.0). jackson-annotation ----- Fourth Party Dependency 1: com.fasterxml.jackson.annotation Copyright © 2008-2020 FasterXML. All rights reserved. This project contains general purpose annotations for Jackson Data Processor, used on value and handler types. The only annotations not included are ones that require dependency to the Databind package. Note that only annotations themselves (and related value classes) are included, but no functionality that uses annotations. Project contains versions 2.0 and above: source code for earlier (1.x) versions is available from Jackson-1 repository.

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FasterXML, LLC	jackson-dataformat-yaml 2.11.2	Dependency: com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:2.11.2 License: Apache 2.0 ----- ---- NOTICE FILE # JACKSON JSON PROCESSOR Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com. # LICENSING Jackson core and extension components may be 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 (http://fasterxml.com). # CREDITS 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. ----- ---- APACHE 2.0 - See Appendix E FOURTH-PARTY DEPENDENCY

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FasterXML, LLC	jackson-datatype-joda 2.9.6	APACHE 2.0 - See Appendix E Below are 4th party dependencies: jackson-annotations 2.9.0, Apache 2.0 jackson-core 2.9.6, Apache 2.0 jackson-databind 2.9.6, Apache 2.0 Above 3 softwares don't have copyright info in the source code, just license info of Apache 2.0 joda-time 2.7, Apache 2.0 NOTICE file corresponding to section 4d of the Apache License Version 2.0 This product includes software developed by Joda.org (http://www.joda.org/).

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FasterXML, LLC.	jackson-datatype-joda 2.13.2	<pre> jackson-datatype-joda ----- APACHE 2.0 - See Appendix E ----- jackson-datatype-joda ----- Apache License Version 2.0, January 2004 http:// www.apache.org/licenses/ Copyright /* * Copyright 2007-present 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 * * 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. </pre>

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jsonwebtoken.io, Technology	jjwt 0.10.7	TOP-LEVEL COMPONENTS: io.jsonwebtoken:jjwt-api:0.10.7 io.jsonwebtoken:jjwt-impl:0.10.7 io.jsonwebtoken:jjwt-jackson:0.10.7 COPYRIGHT NOTICE Copyright (C) 2019 jsonwebtoken.io 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. You may obtain a copy of the Apache License Version 2.0 at http://www.apache.org/licenses/LICENSE-2.0. 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. See the Apache License Version 2.0 for the specific language governing permissions and limitations there under. Extract as it is from NOTICE.md : ## Base64 implementation JJWT's `io.jsonwebtoken.io.Base64` implementation is based on [MigBase64](https://github.com/brsanthu/migbase64) 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:

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		BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF. All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases. <table> <tr> <th>Release Year</th><th>Owner</th><th>Derived GPL-</th></tr> <tr> <td>0.9.0 thru 1.2</td><td></td><td></td></tr> <tr> <td>1991-1995</td><td>CWI</td><td>yes</td></tr> <tr> <td>1.3 thru 1.5.2</td><td></td><td>1.2</td></tr> <tr> <td>1995-1999</td><td>CNRI</td><td>yes</td></tr> <tr> <td>1.6</td><td></td><td>1.5.2</td></tr> <tr> <td>2000</td><td>CNRI</td><td>no</td></tr> <tr> <td>2.0</td><td></td><td>1.6</td></tr> <tr> <td>2000</td><td>BeOpen.com</td><td>no</td></tr> </table>	Release Year	Owner	Derived GPL-	0.9.0 thru 1.2			1991-1995	CWI	yes	1.3 thru 1.5.2		1.2	1995-1999	CNRI	yes	1.6		1.5.2	2000	CNRI	no	2.0		1.6	2000	BeOpen.com	no
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		github.com/Netflix/ocelli/). LICENSE text same as top level artifact. -----
Pivotal Software, Inc	Micrometer Registry Prometheus 1.5.1	APACHE 2.0 - See Appendix E
Pivotal Software, Inc	Micrometer Registry Prometheus 1.6.4	Top Level Component: micrometer-registry-prometheus ----- APACHE 2.0 - See Appendix E

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VMware	micrometer-registry-prometheus 1.7.1 micrometer-registry-prometheus 1.8.0 micrometer-registry-prometheus 1.9.1	Micrometer Registry Prometheus Copyright (c) 2017-Present VMware, 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 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. ----- This product contains a modified portion of 'io.netty.util.internal.logging', in the Netty/Common library distributed by The Netty Project: * Copyright 2013 The Netty Project * License: Apache License v2.0 * Homepage: https://netty.io This product contains a modified portion

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		FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-spring-jaeger-starter:2.0.3 FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.2.0 FOURTH-PARTY DEPENDENCY #8 io.opentracing.contrib:opentracing-spring-web:2.1.0 FOURTH-PARTY DEPENDENCY #9 io.opentracing.contrib:opentracing-spring-web-starter:2.1.0 FOURTH-PARTY DEPENDENCY #10 io.opentracing.contrib:opentracing-tracerresolver:0.1.6 FOURTH-PARTY DEPENDENCY #11 io.opentracing.contrib:opentracing-web-servlet-filter:0.3.0 FOURTH-PARTY DEPENDENCY #12 io.opentracing:opentracing-api:0.32.0 FOURTH-PARTY DEPENDENCY #13 io.opentracing:opentracing-noop:0.32.0 FOURTH-PARTY DEPENDENCY #14 io.opentracing:opentracing-util:0.32.0 FOURTH-PARTY DEPENDENCY #15 org.apache.thrift:libthrift:0.12.0 FOURTH-PARTY DEPENDENCY #16 org.springframework.boot:spring-boot:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #17 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE	

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #19 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #20 org.springframework:spring-context:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #21 org.springframework:spring-core:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #22 org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #23 org.springframework:spring-jcl:5.1.9.RELEASE COMMON LICENSE TEXT APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #24 org.slf4j:slf4j-api:1.7.26 FOURTH-PARTY DEPENDENCY #24 COPYRIGHT NOTICES and LICENSE TEXT Copyright (c) 2004-2017 QOS.ch All rights reserved. MIT - See Appendix G

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		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 COMMON Copyright /* * Copyright 2016-2019 The OpenTracing 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. */ FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-tracerresolver:0.1.8 FOURTH-PARTY DEPENDENCY #6 Copyright Notice /* * Copyright 2017-2018 The OpenTracing 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

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		implied. * See the License for the specific language governing permissions and * limitations under the License. */ FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-web-servlet-filter:0.4.0 FOURTH-PARTY DEPENDENCY #7 Copyright Notice /* * Copyright 2016-2018 The OpenTracing 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. */ 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 #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

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Provider	Component (s)	Licensing Information
		autoconfigure:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #10 org.springframework:spring- aop:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #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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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		spring-web:jar:4.0.0:compile \- io.opentracing.contrib:opentracing-web-servlet-filter:jar:0.4.0:compile \- io.opentracing.contrib:opentracing-tracerresolver:jar:0.1.8:compile License: Apache License Version 2.0, January 2004 Artifacts: io.opentracing.contrib.* io.jaegertracing.* com.squareup.* com.google.code.gson:gson org.apache.thrift.* APACHE 2.0 - See Appendix E Copyrights: 1. io.opentracing.contrib:opentracing-spring-jaeger-web-starter 2. io.opentracing.contrib:opentracing-spring-web-starter 3. io.opentracing.contrib:opentracing-spring-web 4. io.opentracing.contrib:opentracing-web-servlet-filter 5. io.opentracing.contrib:opentracing-tracerresolver 6. io.opentracing.contrib:opentracing-spring-tracer-configuration-starter 7. io.opentracing.contrib:opentracing-spring-jaeger-starter

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		1. io.jaegertracing:jaeger-client 2. io.jaegertracing:jaeger-thrift 3. io.jaegertracing:jaeger-core 4. io.jaegertracing:jaeger-tracerresolver Copyright: /* * Copyright (c) 2018, The Jaeger 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. */ ----- -----

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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

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

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #25 org.springframework.boot:spring-boot-starter-jdbc:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #26 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #27 org.springframework.data:spring-data-commons:2.1.10.RELEASE FOURTH-PARTY DEPENDENCY #28 org.springframework.data:spring-data-jpa:2.1.10.RELEASE COMMON COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc.. All rights reserved. ----- FOURTH-PARTY DEPENDENCY #29 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #30 org.springframework:spring-aspects:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #31 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #32 org.springframework:spring-context:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #33 org.springframework:spring-core:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #34 org.springframework:spring-expression:5.1.9.RELEASE

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

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #35 org.springframework:spring-jcl:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #36 org.springframework:spring-jdbc:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #37 org.springframework:spring-orm:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #38 org.springframework:spring-tx:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #39 org.springframework:spring-web:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #40 org.springframework:spring-webmvc:5.1.9.RELEASE COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. ----- FOURTH-PARTY DEPENDENCY #41 io.micrometer:micrometer-core:1.1.5 FOURTH-PARTY DEPENDENCY #41 COPYRIGHT NOTICES © 2019 Pivotal Software, Inc. All Rights Reserved ----- SUBCOMPONENT #1: org.springframework.boot:spring-boot-starter-data-jpa -> 2.1.7.RELEASE SUBCOMPONENT #2: org.springframework.boot:spring-boot-starter-log4j2 -> 2.1.7.RELEASE SUBCOMPONENT #3: org.springframework.boot:spring-boot-dependencies:2.1.7.RELEASE

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

Provider	Component (s)	Licensing Information
		SUBCOMPONENT #4: org.springframework.boot:spring-boot-starter-web -> 2.1.7.RELEASE SUBCOMPONENT #5: org.springframework.boot:spring-boot-starter-actuator -> 2.1.7.RELEASE SUBCOMPONENT #6: org.springframework.boot:spring-boot-starter-undertow -> 2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #1 com.fasterxml.classmate: 1.4.0 FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-annotations:2.9.0 FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-core:2.9.9 FOURTH-PARTY DEPENDENCY #4 com.fasterxml.jackson.core:jackson-databind:2.9.9.3 FOURTH-PARTY DEPENDENCY #5 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.9.9 FOURTH-PARTY DEPENDENCY #6 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9 FOURTH-PARTY DEPENDENCY #7 com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9 FOURTH-PARTY DEPENDENCY #8 com.zaxxer:HikariCP:3.2.0 FOURTH-PARTY DEPENDENCY #9 io.undertow:undertow-core:2.0.23.Final

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		FOURTH-PARTY DEPENDENCY #10 io.undertow:undertow-servlet:2.0.23.Final FOURTH-PARTY DEPENDENCY #11 io.undertow:undertow-websockets-jsr:2.0.23.Final FOURTH-PARTY DEPENDENCY #12 javax.validation:validation-api:2.0.1.Final FOURTH-PARTY DEPENDENCY #13 net.bytebuddy:byte-buddy:1.9.16 FOURTH-PARTY DEPENDENCY #14 org.apache.logging.log4j:log4j-api:2.11.2 FOURTH-PARTY DEPENDENCY #15 org.apache.logging.log4j:log4j-core:2.11.2 FOURTH-PARTY DEPENDENCY #16 org.apache.logging.log4j:log4j-jul:2.11.2 FOURTH-PARTY DEPENDENCY #17 org.apache.logging.log4j:log4j-slf4j-impl:2.11.2 FOURTH-PARTY DEPENDENCY #18 org.jboss:jandex:2.0.5.Final FOURTH-PARTY DEPENDENCY #19 org.jboss.logging:jboss-logging:3.3.2.Final FOURTH-PARTY DEPENDENCY #20 org.springframework.boot:spring-boot-actuator:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #21 org.springframework.boot:spring-boot-actuator-autoconfigure:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #22 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #23 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #24 org.springframework.boot:spring-boot-starter-aop:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #25 org.springframework.boot:spring-boot-starter-jdbc:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #26 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #27 org.springframework.data:spring-data-commons:2.1.10.RELEASE FOURTH-PARTY DEPENDENCY #28 org.springframework.data:spring-data-jpa:2.1.10.RELEASE FOURTH-PARTY DEPENDENCY #29 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #30 org.springframework:spring-aspects:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #31 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #32 org.springframework:spring-context:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #33 org.springframework:spring-core:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #34 org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #35 org.springframework:spring-jcl:5.1.9.RELEASE

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

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #36 org.springframework:spring-jdbc:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #37 org.springframework:spring-orm:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #38 org.springframework:spring-tx:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #39 org.springframework:spring-web:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #40 org.springframework:spring-webmvc:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #41 io.micrometer:micrometer-core:1.1.5 COMMON LICENSE NOTICE APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #42 antlr:antlr:2.7.7 FOURTH-PARTY DEPENDENCY #42 LICENSE and COPYRIGHT NOTICES Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation

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		FOURTH-PARTY DEPENDENCY #46 javax.transaction:javax.transaction-api:1.3 COMMON LICENSE NOTICES GPL v2 - See Appendix A ----- FOURTH-PARTY DEPENDENCY #47 javax.persistence:javax.persistence-api:2.2 FOURTH-PARTY DEPENDENCY #47 COPYRIGHT NOTICES Copyright © 2017. All Rights Reserved. FOURTH-PARTY DEPENDENCY #47 LICENSE NOTICE Eclipse Public License - v 1.0 - See Appendix J Eclipse Distribution License - v 1.0 Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 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. Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

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Provider	Component (s)	Licensing Information	L i c e n s i n g i n f o r m a t i o n
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		Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi ===== End of Reference [51] ===== ===== Start of Reference [52] ===== jackson-datatype-jdk8 FOURTH-PARTY DEPENDENCY COPYRIGHT NOTICES : Copyright 2013 FasterXML.com 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. ===== End of Reference [52]

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		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. ## Licensing Jackson core and extension components may be 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 (http://fasterxml.com). ## Credits 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. ===== End of Reference [55] ===== ===== End of Reference [56] =====

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY NAME: jackson-databind FOURTH-PARTY DEPENDENCY COPYRIGHT NOTICES: <pre># Jackson JSON processor Jackson is a high-performance, Free/ Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com. ## Licensing Jackson core and extension components may be 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 (http://fasterxml.com). ## Credits A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available</pre>

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Pivotal Software, Inc	spring-boot-actuator 2.1.2	APACHE 2.0 - See Appendix E
Pivotal Software, Inc	spring-boot-autoconfigure 2.2.4	APACHE 2.0 - See Appendix E

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		FOURTH-PARTY DEPENDENCY #9 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #10 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #11 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-context:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-core:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-jcl:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17 org.yaml:snakeyaml:1.23 COMMON LICENSE NOTICE APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #19 org.hdrhistogram:HdrHistogram:2.1.9 FOURTH-PARTY DEPENDENCY #19 COPYRIGHT NOTICE Copyright © 2016. All rights reserved.

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

Provider	Component (s)	Licensing Information
		+--- org.springframework:spring-context:5.2.3.RELEASE (*) \--- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.10.2 (*) \--- io.micrometer:micrometer-core:1.3.2 +--- org.hdrhistogram:HdrHistogram:2.1.11 \--- org.latencyutils:LatencyUtils:2.0.3 © 2019 Pivotal Software, Inc. All Rights Reserved ----- TOP-LEVEL LICENSE TEXT for org.springframework.boot:spring-boot-starter-actuator:jar:2.2.2.RELEASE:compile Apache License, Version 2.0 - See Appendix E ----- separator----- [FOURTH-PARTY DEPENDENCY #01] +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] +- io.micrometer:micrometer-core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #03] +- org.hdrhistogram:HdrHistogram:2.1.11:compile [FOURTH-PARTY DEPENDENCY #04] \- org.latencyutils:LatencyUtils:2.0.3:compile [FOURTH-PARTY DEPENDENCY #05] +- org.springframework.boot:spring-boot-actuator-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] +- org.springframework:spring-core:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07] +- org.springframework:spring-jcl:jar:5.2.2.RELEASE:compile

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

Provider	Component (s)	Licensing Information	L i c e n s i n g i n f o r m a t i o n
		[FOURTH-PARTY DEPENDENCY #08] +- org.springframework:spring- context:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] +- org.springframework:spring- aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] +- org.springframework:spring- beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #11] +- org.springframework:spring- expression:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #12] +- org.springframework.boot:spring-boot- actuator:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #13] +- com.fasterxml.jackson.datatype:jackson-datatype- jsr310:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #14] +- com.fasterxml.jackson.core:jackson- annotations:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #15] +- org.springframework.boot:spring- boot:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16] +- 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	

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

Provider	Component (s)	Licensing Information
		----- [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 ----- [FOURTH-PARTY DEPENDENCY #02] io.micrometer:micrometer-core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #02] COPYRIGHT NOTICE Copyright 2019 Pivotal Software, Inc. ----- [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

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

Provider	Component (s)	Licensing Information
		[FOURTH-PARTY DEPENDENCY #04] 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 #05] org.springframework.boot:spring-boot-actuator-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #05] COPYRIGHT NOTICE 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 ----- [FOURTH-PARTY DEPENDENCY #06] org.springframework:spring-core:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] 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.

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Provider	Component (s)	Licensing Information
		You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 ----- Common Copyright Notice for 7, 8, 9, 10, 11, 12 [FOURTH-PARTY DEPENDENCY #07] org.springframework:spring-jcl:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08] org.springframework:spring-context:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #11] org.springframework:spring-expression:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #12] org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07, 08, 09, 10, 11, 12] 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

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Provider	Component (s)	Licensing Information
		----- [FOURTH-PARTY DEPENDENCY #13] com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #13] COPYRIGHT NOTICE Copyright 2013 FasterXML.com 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 ----- [FOURTH-PARTY DEPENDENCY #14] com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #14] COPYRIGHT NOTICE This copy of Jackson JSON processor annotations is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0 ----- [FOURTH-PARTY DEPENDENCY #15] org.springframework.boot:spring-boot:jar:2.2.2.RELEASE:compile

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		[FOURTH-PARTY DEPENDENCY #17] com.fasterxml.jackson.core:jackson-core:2.10.1:compile [FOURTH-PARTY DEPENDENCY #17] COPYRIGHT NOTICE Jackson JSON-processor. Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi ----- [FOURTH-PARTY DEPENDENCY #18] \- org.springframework.boot:spring-boot-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #18] 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. ----- Common License Notice for Apache 2.0

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

Provider	Component (s)	Licensing Information
		[FOURTH-PARTY DEPENDENCY #01] org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] io.micrometer:micrometer-core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #05] org.springframework.boot:spring-boot-actuator-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] org.springframework:spring-core:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07] org.springframework:spring-jcl:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08] org.springframework:spring-context:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #11] org.springframework:spring-expression:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #12] org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #13] com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.1:compile

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

Provider	Component (s)	Licensing Information
		[FOURTH-PARTY DEPENDENCY #14] com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #15] org.springframework.boot:spring-boot:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16] com.fasterxml.jackson.core:jackson-databind:jar:2.10.1.RELEASE: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 Apache License, Version 2.0 - See Appendix E ----- Common License Notice for CC0 1.0 [FOURTH-PARTY DEPENDENCY #03] org.hdrhistogram:HdrHistogram:2.1.11:compile [FOURTH-PARTY DEPENDENCY #04] org.latencyutils:LatencyUtils:2.0.3:compile Creative Commons Legal Code CC0 1.0 Universal ----- Common License Notice for Clause-3 BSD: [FOURTH-PARTY DEPENDENCY #06] org.springframework:spring-core:jar:5.2.2.RELEASE:compile

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

Provider	Component (s)	Licensing Information
		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. Licensing 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 (http://fasterxml.com). Credits 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. ----- FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-databind:2.9.9.3 FOURTH-PARTY DEPENDENCY #3 COPYRIGHT NOTICES Copyright © 2008–2019 FasterXML. All rights reserved. -----

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Provider	Component (s)	Licensing Information	L i c e n s i n g i n f o r m a t i o n
		FOURTH-PARTY DEPENDENCY #4 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9 COMMON COPYRIGHT NOTICES Copyright © 2019 FasterXML. All rights reserved. ----- FOURTH-PARTY DEPENDENCY #5 io.micrometer:micrometer-core:1.1.5 FOURTH-PARTY DEPENDENCY #5 COPYRIGHT NOTICES © 2019 Pivotal Software, Inc. All Rights Reserved ----- FOURTH-PARTY DEPENDENCY #6 org.springframework.boot:spring-boot:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #7 org.springframework.boot:spring-boot-actuator:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #8 org.springframework.boot:spring-boot-actuator-autoconfigure:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #9 org.springframework.boot:spring-boot-autoconfigure:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #10 org.springframework.boot:spring-boot-starter:2.2.0.BUILD-SNAPSHOT COMMON COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc.. All rights reserved. -----	

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

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #11 org.springframework:spring-aop:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-beans:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-context:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-core:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-expression:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-jcl:5.2.0.BUILD-SNAPSHOT COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. ----- FOURTH-PARTY DEPENDENCY #17 org.yaml:snakeyaml:1.23 FOURTH-PARTY DEPENDENCY #17 COPYRIGHT NOTICES 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

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Provider	Component (s)	Licensing Information
		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 or later, http://www.gnu.org/licenses/lgpl.html GPL, GNU General Public License, V2 or later, http://www.gnu.org/licenses/gpl.html AL, Apache License, V2.0 or later, http://www.apache.org/licenses BSD, BSD License, http://www.opensource.org/licenses/bsd-license.php Please contact the author if you need another license. Copyright (c) 2008 Google Inc. ----- FOURTH-PARTY DEPENDENCY #1 com.fasterxml.jackson.core:jackson-annotations:2.9.0 FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-core:2.9.9.3

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

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-databind:2.9.9.3 FOURTH-PARTY DEPENDENCY #4 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9 FOURTH-PARTY DEPENDENCY #5 io.micrometer:micrometer-core:1.1.5 FOURTH-PARTY DEPENDENCY #6 org.springframework.boot:spring-boot:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #7 org.springframework.boot:spring-boot-actuator:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #8 org.springframework.boot:spring-boot-actuator-autoconfigure:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #9 org.springframework.boot:spring-boot-autoconfigure:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #10 org.springframework.boot:spring-boot-starter:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #11 org.springframework:spring-aop:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-beans:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-context:5.2.0.BUILD-SNAPSHOT

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

Provider	Component (s)	Licensing Information	L i c e n s i n g i n f o r m a t i o n
		FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-core:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-expression:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-jcl:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #17 org.yaml:snakeyaml:1.23 COMMON LICENSE NOTICE Apache License, Version 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #19 org.hdrhistogram:HdrHistogram:2.1.11 FOURTH-PARTY DEPENDENCY #19 COPYRIGHT NOTICE Copyright © 2016. All rights reserved. FOURTH-PARTY DEPENDENCY #20 LICENSE See Appendix U	

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

Provider	Component (s)	Licensing Information
		org.springframework:spring-expression:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #12] +- org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #13] +- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #14] +- com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #15] +- org.springframework.boot:spring-boot:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16] +- 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,

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		FOURTH-PARTY DEPENDENCY #17 org.springframework:spring-tx:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17A org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17B org.springframework:spring-jcl:5.1.9.RELEASE COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. ----- FOURTH-PARTY DEPENDENCY #17C org.yaml:snakeyaml:1.23 FOURTH-PARTY DEPENDENCY #17C COPYRIGHT NOTICES Copyright (c) 2008, http://www.snakeyaml.org APACHE 2.0 - See Appendix E 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 or later, http://www.gnu.org/licenses/lgpl.html GPL, GNU General Public License, V2 or later, http://www.gnu.org/licenses/gpl.html AL, Apache License, V2.0 or later, http://www.apache.org/licenses

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #8 org.springframework.data:spring-data-commons:2.1.10.RELEASE FOURTH-PARTY DEPENDENCY #9 org.springframework.data:spring-data-jpa:2.1.10.RELEASE FOURTH-PARTY DEPENDENCY #10 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #11 org.springframework:spring-aspects:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-context:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-core:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-jdbc:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-orm:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17 org.springframework:spring-tx:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17A org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17B org.springframework:spring-jcl:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #17C org.yaml:snakeyaml:1.23 COMMON COPYRIGHT NOTICE

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Provider	Component (s)	Licensing Information
Apache 2.0	spring-boot-starter-data-jpa 2.2.6.RELEASE	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-data-jpa:jar:2.2.2.RELEASE:compile +- org.springframework.boot:spring-boot-starter-aop:jar:2.2.2.RELEASE:compile \- org.aspectj:aspectjweaver:jar:1.9.5:compile +- org.springframework.boot:spring-boot-starter-jdbc:jar:2.2.2.RELEASE:compile +- com.zaxxer:HikariCP:jar:3.4.1:compile \- org.springframework:spring-jdbc:jar:5.2.2.RELEASE:compile +- jakarta.activation:jakarta.activation-api:jar:1.2.1:compile +- jakarta.persistence:jakarta.persistence-api:jar:2.2.3:compile +- jakarta.transaction:jakarta.transaction-api:jar:1.3.3:compile +- org.springframework.data:spring-data-jpa:jar:2.2.3.RELEASE:compile +- org.springframework.data:spring-data-commons:jar:2.2.3.RELEASE:compile \- org.springframework:spring-orm:jar:5.2.2.RELEASE:compile \- org.springframework:spring-aspects:jar:5.2.2.RELEASE:compile Apache License Version 2.0, January 2004 ***** org.springframework.* com.zaxxer:HikariCP Eclipse Public License - v 2.0 ***** org.aspectj:aspectjweaver jakarta.persistence:jakarta.persistence-api jakarta.transaction:jakarta.transaction-api Eclipse Distribution License - v 1.0

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		Sax (0.2) License: SAX-PD Project: http://www.megginson.com/downloads/SAX/ Source: http://sourceforge.net/project/showfiles.php?group_id=29449 testng (6.14.2) License: Apache-2.0 AND (MIT OR GPL-1.0+) Project: https://testng.org/doc/index.html Source: https://github.com/cbeust/testng wagon-http-lightweight (3.0.0) License: Pending Project: https://maven.apache.org/wagon/ Source: https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0 xz for java (1.8) License: LicenseRef-Public-Domain Cryptography Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

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Provider	Component (s)	Licensing Information
		===== ===== ===== Fourth-Party Dependencies com.sun.xml.fastinfoset:FastInfoset License : Apache 2.0 [0] /* * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER. * * Copyright (c) 2004, 2022 Oracle and/or its affiliates. All rights reserved. * * Oracle 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

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Provider	Component (s)	Licensing Information
		## Source Code The project maintains the following source code repositories: * https://github.com/eclipse-ee4j/jaxb-ri * https://github.com/eclipse-ee4j/jaxb-istack-commons * https://github.com/eclipse-ee4j/jaxb-dtd-parser * https://github.com/eclipse-ee4j/jaxb-fi * https://github.com/eclipse-ee4j/jaxb-stax-ex * https://github.com/eclipse-ee4j/jax-rpc-ri ## Third-party Content This project leverages the following third party content. Apache Ant (1.10.2) * License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain Apache Ant (1.10.2) * License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain Apache Felix (1.2.0) * License: Apache License, 2.0 args4j (2.33) * License: MIT License dom4j (1.6.1) * License: Custom license based on Apache 1.1 file-management (3.0.0)

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Provider	Component (s)	Licensing Information
		* License: Apache-2.0 * Project: https://maven.apache.org/shared/file-management/ * Source: https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/ JUnit (4.12) * License: Eclipse Public License JUnit (4.12) * License: Eclipse Public License maven-compat (3.5.2) * License: Apache-2.0 * Project: https://maven.apache.org/ref/3.5.2/maven-compat/ * Source: https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2 maven-core (3.5.2) * License: Apache-2.0 * Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html * Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2 maven-plugin-annotations (3.5) * License: Apache-2.0 * Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/ * Source:

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Provider	Component (s)	Licensing Information
		https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations maven-plugin-api (3.5.2) * License: Apache-2.0 maven-resolver-api (1.1.1) * License: Apache-2.0 maven-resolver-api (1.1.1) * License: Apache-2.0 maven-resolver-connector-basic (1.1.1) * License: Apache-2.0 maven-resolver-impl (1.1.1) * License: Apache-2.0 maven-resolver-spi (1.1.1) * License: Apache-2.0 maven-resolver-transport-file (1.1.1) * License: Apache-2.0 * Project: https://maven.apache.org/resolver/maven-resolver-transport-file/ * Source: https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file maven-resolver-util (1.1.1) * License: Apache-2.0 maven-settings (3.5.2) * License: Apache-2.0

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Provider	Component (s)	Licensing Information
		* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2 OSGi Service Platform Core Companion Code (6.0) * License: Apache License, 2.0 plexus-archiver (3.5) * License: Apache-2.0 * Project: https://codehaus-plexus.github.io/plexus-archiver/ * Source: https://github.com/codehaus-plexus/plexus-archiver plexus-io (3.0.0) * License: Apache-2.0 plexus-utils (3.1.0) * License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1 style) relaxng-datatype (1.0) * License: New BSD license Sax (0.2) * License: SAX-PD * Project: http://www.megginson.com/downloads/SAX/ * Source: http://sourceforge.net/project/showfiles.php?group_id=29449

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Provider	Component (s)	Licensing Information
		testng (6.14.2) * License: Apache-2.0 AND (MIT OR GPL-1.0+) * Project: https://testng.org/doc/index.html * Source: https://github.com/cbeust/testng wagon-http-lightweight (3.0.0) * License: Pending * Project: https://maven.apache.org/wagon/ * Source: https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0 xz for java (1.8) * License: LicenseRef-Public-Domain ## Cryptography Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted. ===== ===== ===== License References are mentioned below. ===== == Start License Reference [0]

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		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. GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION 0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you". 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. The "Library", below, refers to any such software library or work	

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		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

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		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. 5. 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

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		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

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		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. 6. 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:

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Provider	Component (s)	Licensing Information
		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) will operate properly with a modified version of the library, if

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		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

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		components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute. 7. 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 not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things: a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

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Provider	Component (s)	Licensing Information
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Pivotal Software, Inc	spring-boot-starter-jdbc 2.2.6	APACHE 2.0 - See Appendix E

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

Provider	Component (s)	Licensing Information
Pivotal Software, Inc	spring-boot-starter-log4j2 2.2.4.RELEASE	Copyright 2019 Pivotal Software, Inc. All Rights Reserved ----- TOP-LEVEL LICENSE TEXT for org.springframework.boot:spring-boot-starter-log4j2 -> 2.2.4.RELEASE APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.apache.logging.log4j:log4j-api:2.12.1 FOURTH-PARTY DEPENDENCY #2 org.apache.logging.log4j:log4j-core:2.12.1 FOURTH-PARTY DEPENDENCY #3 org.apache.logging.log4j:log4j-jul:2.12.1 FOURTH-PARTY DEPENDENCY #4 org.apache.logging.log4j:log4j-slf4j-impl:2.12.1 COMMON COPYRIGHT NOTICES Copyright © 1999-2019 The Apache Software Foundation. All Rights Reserved. Apache Logging, Apache Log4j, Log4j, Apache, the Apache feather logo, the Apache Logging project logo, and the Apache Log4j logo are trademarks of The Apache Software Foundation. Apache log4j Copyright 2010 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). COMMON LICENSE NOTICE Apache License, Version 2.0 - See Appendix E -----

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

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Pivotal Software, Inc	spring-boot-starter-log4j2 2.2.6.RELEASE	Copyright 2019 Pivotal Software, Inc. All Rights Reserved ----- TOP-LEVEL LICENSE TEXT for org.springframework.boot:spring-boot-starter-log4j2 -> 2.2.4.RELEASE APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.apache.logging.log4j:log4j-api:2.12.1 FOURTH-PARTY DEPENDENCY #2 org.apache.logging.log4j:log4j-core:2.12.1 FOURTH-PARTY DEPENDENCY #3 org.apache.logging.log4j:log4j-jul:2.12.1 FOURTH-PARTY DEPENDENCY #4 org.apache.logging.log4j:log4j-slf4j-impl:2.12.1 COMMON COPYRIGHT NOTICES Copyright © 1999-2019 The Apache Software Foundation. All Rights Reserved. Apache Logging, Apache Log4j, Log4j, Apache, the Apache feather logo, the Apache Logging project logo, and the Apache Log4j logo are trademarks of The Apache Software Foundation. Apache log4j Copyright 2010 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). COMMON LICENSE NOTICE Apache License, Version 2.0 - See Appendix E -----

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		com.nimbusds:lang-tag:1.4.4 FOURTH-PARTY DEPENDENCY #16 com.nimbusds:nimbus-jose-jwt:7.8 © 2020 Connect2id Ltd. EU VAT ID BG202911783 COMMON LICENSE NOTICES Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT -----separator----- FOURTH-PARTY DEPENDENCY #17 net.minidev:json-smart:2.3 FOURTH-PARTY DEPENDENCY #18 net.minidev:accessors-smart:1.2 Copyright © XSERVICES Inc. All Rights Reserved. COMMON LICENSE NOTICES Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT -----separator----- FOURTH-PARTY DEPENDENCY #19 com.github.stephenc.jcip:jcip- annotations:1.0-1 Copyright 2013 Stephen Connolly. COMMON LICENSE NOTICES Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT

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Pivotal Software, Inc	spring-boot-starter-oauth2-client 2.2.4.RELEASE spring-boot-starter-oauth2-client 2.5.1.RELEASE spring-boot-starter-oauth2-client 2.6.7.RELEASE	TOP-LEVEL COPYRIGHT NOTICE for spring-boot-starter-oauth2-client 2.2.4.RELEASE © 2019 Pivotal Software, Inc. All Rights Reserved TOP-LEVEL LICENSE TEXT for spring-boot-starter-oauth2-client 2.2.4.RELEASE Apache License, Version 2.0 APACHE 2.0 - See Appendix E FOURTH-PARTY DEPENDENCY #1 org.springframework.boot:spring-boot-starter:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #2 org.springframework.security:spring-security-config:5.2.1.RELEASE FOURTH-PARTY DEPENDENCY #3 org.springframework.security:spring-security-core:5.2.1.RELEASE FOURTH-PARTY DEPENDENCY #4 org.springframework.security:spring-security-oauth2-client:5.2.1.RELEASE FOURTH-PARTY DEPENDENCY #5 org.springframework.security:spring-security-oauth2-core:5.2.1.RELEASE FOURTH-PARTY DEPENDENCY #6 org.springframework.security:spring-security-web:5.2.1.RELEASE FOURTH-PARTY DEPENDENCY #7 org.springframework.security:spring-security-oauth2-jose:5.2.1.RELEASE COMMON COPYRIGHT NOTICES Copyright © 2020 Pivotal Software, Inc.. All rights reserved. COMMON LICENSE NOTICES Apache License, Version 2.0 APACHE 2.0 - See Appendix E FOURTH-PARTY DEPENDENCY #8 org.springframework:spring-aop:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #9 org.springframework:spring-

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		beans:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #10 org.springframework:spring-context:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #11 org.springframework:spring-core:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-expression:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-web:5.2.3.RELEASE COMMON COPY RIGHT TEXT © 2020 VMware, Inc. or its affiliates. Terms of Use • Privacy • Trademark Guidelines Apache®, Apache Tomcat®, Apache Kafka®, Apache Cassandra™, and Apache Geode™ are trademarks or registered trademarks of the Apache Software Foundation in the United States and/or other countries. Java™, Java™ SE, Java™ EE, and OpenJDK™ are trademarks of Oracle and/or its affiliates. Kubernetes® is a registered trademark of the Linux Foundation in the United States and other countries. Linux® is the registered trademark of Linus Torvalds in the United States and other countries. Windows® and Microsoft® Azure are registered trademarks of Microsoft Corporation. “AWS” and “Amazon Web Services” are trademarks or registered trademarks of Amazon.com Inc. or its affiliates. All other trademarks and copyrights are property of their respective owners and are only mentioned for informative purposes. Other names may be trademarks of their respective owners. COMMON LICENSE NOTICES Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT FOURTH-PARTY DEPENDENCY #14 com.nimbusds:oauth2-oidc-sdk:6.14 FOURTH-PARTY DEPENDENCY #15 com.nimbusds:lang-

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		exception as provided by Oracle in the LICENSE file that accompanied this code." Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination. As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. ----- ----- tomcat-embed-el

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		https://github.com/RobertFischer/json-parser For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages are derivative work originating from the Netty project and the finagle-native project developed at Twitter * Copyright 2014 The Netty Project * Copyright 2014 Twitter For portions of the Tomcat cloud support The org.apache.catalina.tribes.membership.cloud package contains derivative work originating from the jgroups project. https://github.com/jgroups-extras/jgroups-kubernetes Copyright 2002-2018 Red Hat Inc. The original XML Schemas for Java EE Deployment Descriptors: - javaee_5.xsd - javaee_web_services_1_2.xsd - javaee_web_services_client_1_2.xsd - javaee_6.xsd - javaee_web_services_1_3.xsd - javaee_web_services_client_1_3.xsd - jsp_2_2.xsd - web-app_3_0.xsd - web-common_3_0.xsd - web-fragment_3_0.xsd

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		- javaee_7.xsd - javaee_web_services_1_4.xsd - javaee_web_services_client_1_4.xsd - jsp_2_3.xsd - web-app_3_1.xsd - web-common_3_1.xsd - web-fragment_3_1.xsd - javaee_8.xsd - web-app_4_0.xsd - web-common_4_0.xsd - web-fragment_4_0.xsd maybe obtained from: http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html ----- org.springframework.boot spring-boot org.springframework.boot spring-boot-starter License : Apache License Version 2.0 Copyright 2002-2022 Pivotal, 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 http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software

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		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. ----- Notice: ----- Spring Boot Copyright (c) 2012-2022 Pivotal, Inc. This product is licensed to you under the Apache License, Version 2.0 (the "License"). You may not use this product except in compliance with the License. ----- org.springframework spring-context org.springframework spring-expression org.springframework spring-aop License : Apache License Version 2.0 Copyright 2002-2022 Pivotal, 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

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Provider	Component (s)	Licensing Information
Pivotal Software, Inc	spring-boot-starter-web 2.1.7.RELEASE	Copyright 2019 Pivotal Software, Inc. All Rights Reserved APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #1 com.fasterxml:classmate: 1.4.0 FOURTH-PARTY DEPENDENCY #1 COPYRIGHT NOTICES Copyright © 2012-2018 fasterxml.com. All rights reserved. Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi) Other developers who have contributed code are: * Brian Langel ----- FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-annotations:2.9.0 FOURTH-PARTY DEPENDENCY #2 COPYRIGHT NOTICES Copyright © 2008-2017 FasterXML. All rights reserved. ----- FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-core:2.9.9 FOURTH-PARTY DEPENDENCY #3 COPYRIGHT NOTICES Jackson JSON-processor. Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi # Jackson JSON processor

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		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. ## Licensing 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 (http://fasterxml.com). ## Credits 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. ----- FOURTH-PARTY DEPENDENCY #4 com.fasterxml.jackson.core:jackson-databind:2.9.9.3 FOURTH-PARTY DEPENDENCY #4 COPYRIGHT NOTICES Copyright © 2008-2019 FasterXML. All rights reserved.

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		----- FOURTH-PARTY DEPENDENCY #5 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.9.9 FOURTH-PARTY DEPENDENCY #6 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9 FOURTH-PARTY DEPENDENCY #7 com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9 COMMON COPYRIGHT NOTICES Copyright © 2019 FasterXML. All rights reserved. ----- FOURTH-PARTY DEPENDENCY #8 javax.validation:validation-api:2.0.1.Final FOURTH-PARTY DEPENDENCY #8 COPYRIGHT NOTICES Copyright © 2007-2017 Red Hat Inc. All Rights Reserved. Released under the Apache Software License 2.0. ----- FOURTH-PARTY DEPENDENCY #9 org.jboss.logging:jboss-logging:3.3.2.Final FOURTH-PARTY DEPENDENCY #9 COPYRIGHT NOTICE Copyright © 2015 Red Hat, Inc. ----- FOURTH-PARTY DEPENDENCY #10 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE

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		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 COMMON COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc.. All rights reserved. ----- 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

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		FOURTH-PARTY DEPENDENCY #8 javax.validation:validation-api:2.0.1.Final 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

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		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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Pivotal Software, Inc	spring-boot-starter-web 2.2.4	Copyright 2012-2020 the original author or authors. ----- org.springframework.boot:spring-boot-autoconfigure:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-parent:pom:2.2.4.RELEASE org.springframework.boot:spring-boot-starter-json:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-starter-logging:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-starter-validation:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-starter-web:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-starter:jar:2.2.4.RELEASE org.springframework.boot:spring-boot-starters:pom:2.2.4.RELEASE org.springframework.boot:spring-boot:jar:2.2.4.RELEASE org.springframework:spring-aop:jar:5.2.3.RELEASE org.springframework:spring-beans:jar:5.2.3.RELEASE org.springframework:spring-context:jar:5.2.3.RELEASE org.springframework:spring-core:jar:5.2.3.RELEASE

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		org.springframework:spring-expression:jar:5.2.3.RELEASE org.springframework:spring-jcl:jar:5.2.3.RELEASE org.springframework:spring-web:jar:5.2.3.RELEASE org.springframework:spring-webmvc:jar:5.2.3.RELEASE Copyright 2012-2020 the original author or authors. Apache License, Version 2.0 See Appendix E ----- com.fasterxml.jackson.core:jackson-annotations:jar:2.10.2 com.fasterxml.jackson.core:jackson-core:jar:2.10.2 com.fasterxml.jackson.core:jackson-databind:jar:2.10.2 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.2 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.2 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.2 com.fasterxml.jackson.module:jackson-modules-java8:pom:2.10.2 com.fasterxml.jackson:jackson-base:pom:2.10.2 com.fasterxml:classmate:jar:1.5.1 com.fasterxml:oss-parent:pom:35 Copyright 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

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		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

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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] +-

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		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 [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,

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		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 [FOURTH-PARTY DEPENDENCY #17] +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #18] \- org.springframework:spring-

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Provider	Component (s)	Licensing Information
		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-

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Provider	Component (s)	Licensing Information
		api:jar:2.0.1:compile \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile +- 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

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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] +-

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		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-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-

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		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, do 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

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Provider	Component (s)	Licensing Information
		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. 6. 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

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		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.)

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

Provider	Component (s)	Licensing Information
		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) will operate 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.

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Provider	Component (s)	Licensing Information
		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. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute. 7. 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 not covered by this License, and distribute such a combined

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		library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things: a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above. b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work. 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses

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		FOURTH-PARTY DEPENDENCY #5 com.fasterxml.jackson.core:jackson-core:2.9.9 FOURTH-PARTY DEPENDENCY #5 COPYRIGHT NOTICES Jackson JSON-processor. * * Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi */ # Jackson JSON processor Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com. ## Licensing 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 (http://fasterxml.com). ## Credits 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.

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 #15 io.netty:netty-common:4.1.36.Final FOURTH-PARTY DEPENDENCY #16 io.netty:netty-handler:4.1.36.Final FOURTH-PARTY DEPENDENCY #17 io.netty:netty-handler-proxy:4.1.36.Final FOURTH-PARTY DEPENDENCY #18 io.netty:netty-resolver:4.1.36.Final FOURTH-PARTY DEPENDENCY #19 io.netty:netty-transport:4.1.36.Final FOURTH-PARTY DEPENDENCY #20 io.netty:netty-transport-native-epoll:4.1.36.Final FOURTH-PARTY DEPENDENCY #21 io.netty:netty-transport-native-unix-common:4.1.36.Final COMMON COPYRIGHT NOTICES Copyright © 2008–2019 The Netty Project. All rights reserved. FOURTH-PARTY DEPENDENCY #22 io.projectreactor.addons:reactor-extra:3.2.3.RELEASE FOURTH-PARTY DEPENDENCY #22 COPYRIGHT NOTICES /* * Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved. APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #23 io.projectreactor.netty:reactor-netty:0.8.9.RELEASE

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

Provider	Component (s)	Licensing Information
		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 FOURTH-PARTY DEPENDENCY #40 org.springframework.cloud:spring-cloud-starter-gateway:2.1.2.RELEASE FOURTH-PARTY DEPENDENCY #41 org.springframework.security:spring-security-crypto:5.1.5.RELEASE FOURTH-PARTY DEPENDENCY #42 org.springframework.security:spring-security-rsa:1.0.7.RELEASE COMMON COPYRIGHT NOTICES Copyright © 2019 Pivotal Software, Inc.. All rights reserved. ----- FOURTH-PARTY DEPENDENCY #43 org.synchronoss.cloud:nio-multipart-parser:1.1.0 FOURTH-PARTY DEPENDENCY #43 COPYRIGHT NOTICES * Copyright (C) 2008 The Guava Authors

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #4 com.fasterxml.jackson.core:jackson-annotations:2.9.0 FOURTH-PARTY DEPENDENCY #5 com.fasterxml.jackson.core:jackson-core:2.9.9 FOURTH-PARTY DEPENDENCY #6 com.fasterxml.jackson.core:jackson-databind:2.9.9.3 FOURTH-PARTY DEPENDENCY #7 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:2.9.9 FOURTH-PARTY DEPENDENCY #8 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.9.9 FOURTH-PARTY DEPENDENCY #9 com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9 FOURTH-PARTY DEPENDENCY #10 io.netty:netty-buffer:4.1.36.Final FOURTH-PARTY DEPENDENCY #11 io.netty:netty-codec:4.1.36.Final FOURTH-PARTY DEPENDENCY #12 io.netty:netty-codec-http2:4.1.36.Final FOURTH-PARTY DEPENDENCY #13 io.netty:netty-codec-http:4.1.36.Final FOURTH-PARTY DEPENDENCY #14 io.netty:netty-codec-socks:4.1.36.Final FOURTH-PARTY DEPENDENCY #15 io.netty:netty-common:4.1.36.Final FOURTH-PARTY DEPENDENCY #16 io.netty:netty-handler:4.1.36.Final FOURTH-PARTY DEPENDENCY #17 io.netty:netty-handler-proxy:4.1.36.Final

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #18 io.netty:netty-resolver:4.1.36.Final FOURTH-PARTY DEPENDENCY #19 io.netty:netty-transport:4.1.36.Final FOURTH-PARTY DEPENDENCY #20 io.netty:netty-transport-native-epoll:4.1.36.Final FOURTH-PARTY DEPENDENCY #21 io.netty:netty-transport-native-unix-common:4.1.36.Final FOURTH-PARTY DEPENDENCY #22 io.projectreactor.addons:reactor-extra:3.2.3.RELEASE FOURTH-PARTY DEPENDENCY #23 io.projectreactor.netty:reactor-netty:0.8.9.RELEASE FOURTH-PARTY DEPENDENCY #24 javax.validation:validation-api:2.0.1.Final FOURTH-PARTY DEPENDENCY #25 org.apache.logging.log4j:log4j-api:2.11.2 FOURTH-PARTY DEPENDENCY #26 org.apache.logging.log4j:log4j-to-slf4j:2.11.2 FOURTH-PARTY DEPENDENCY #27 org.hibernate.validator:hibernate-validator:6.0.17.Final FOURTH-PARTY DEPENDENCY #28 org.jboss.logging:jboss-logging:3.3.2.Final FOURTH-PARTY DEPENDENCY #29 org.springframework.boot:spring-boot:2.1.6.RELEASE FOURTH-PARTY DEPENDENCY #30 org.springframework.boot:spring-boot-autoconfigure:2.1.6.RELEASE

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #31 org.springframework.boot:spring-boot-starter:2.1.6.RELEASE FOURTH-PARTY DEPENDENCY #32 org.springframework.boot:spring-boot-starter-json:2.1.6.RELEASE FOURTH-PARTY DEPENDENCY #33 org.springframework.boot:spring-boot-starter-logging:2.1.6.RELEASE FOURTH-PARTY DEPENDENCY #34 org.springframework.boot:spring-boot-starter-reactor-netty:2.1.6.RELEASE 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 FOURTH-PARTY DEPENDENCY #40 org.springframework.cloud:spring-cloud-starter-gateway:2.1.2.RELEASE FOURTH-PARTY DEPENDENCY #41 org.springframework.security:spring-security-crypto:5.1.5.RELEASE

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #42 org.springframework.security:spring-security-rsa:1.0.7.RELEASE FOURTH-PARTY DEPENDENCY #43 org.synchronoss.cloud:nio-multipart-parser:1.1.0 FOURTH-PARTY DEPENDENCY #44 org.synchronoss.cloud:nio-stream-storage:1.1.3 FOURTH-PARTY DEPENDENCY #45 org.springframework:spring-beans:5.1.8.RELEASE FOURTH-PARTY DEPENDENCY #46 org.springframework:spring-core:5.1.8.RELEASE FOURTH-PARTY DEPENDENCY #47 org.springframework:spring-web:5.1.8.RELEASE FOURTH-PARTY DEPENDENCY #48 org.springframework:spring-webflux:5.1.8.RELEASE FOURTH-PARTY DEPENDENCY #49 org.yaml:snakeyaml:1.23 FOURTH-PARTY DEPENDENCY #50 io.projectreactor:reactor-core:3.2.10.RELEASE APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #51 org.bouncycastle:bcpkix-jdk15on:1.60 FOURTH-PARTY DEPENDENCY #52 org.bouncycastle:bcprov-jdk15on:1.60 COMMON COPYRIGHT AND LICENSE NOTICES Please note this should be read in the same way as the MIT license.

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Pivotal Software, Inc	spring-cloud-starter-kubernetes 1.1.2.RELEASE	TOP-LEVEL COPYRIGHT NOTICE for org.springframework.cloud:spring-cloud-starter-kubernetes © 2020 Pivotal Software, Inc. All Rights Reserved Apache License - See Appendix E FOURTH-PARTY DEPENDENCY #1 org.springframework.cloud:spring-cloud-kubernetes-core:1.1.2.RELEASE FOURTH-PARTY DEPENDENCY #2 org.springframework.cloud:spring-cloud-kubernetes-discovery:1.1.2.RELEASE FOURTH-PARTY DEPENDENCY #3 org.springframework.boot:spring-boot-autoconfigure:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #4 org.springframework.boot:spring-boot:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #5 org.springframework.cloud:spring-cloud-context:2.2.2.RELEASE FOURTH-PARTY DEPENDENCY #6 org.springframework.cloud:spring-cloud-commons:2.2.2.RELEASE COMMON COPYRIGHT NOTICE © 2020 Pivotal Software, Inc. All Rights Reserved Apache License - See Appendix E FOURTH-PARTY DEPENDENCY #1 io.fabric8:kubernetes-client:4.4.1 FOURTH-PARTY DEPENDENCY #2 io.fabric8:kubernetes-model:4.4.1 FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.10.2 FOURTH-PARTY DEPENDENCY #4 com.fasterxml.jackson.core:jackson-annotations:2.10.2 FOURTH-PARTY DEPENDENCY #5

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Provider	Component (s)	Licensing Information
		com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.10.2 FOURTH-PARTY DEPENDENCY #6 javax.validation:validation-api:2.0.1.Final FOURTH-PARTY DEPENDENCY #7 com.squareup.okhttp3:okhttp:3.14.6 FOURTH-PARTY DEPENDENCY #8 com.squareup.okio:okio:1.17.2 FOURTH-PARTY DEPENDENCY #9 com.squareup.okhttp3:logging-interceptor:3.14.6 FOURTH-PARTY DEPENDENCY #10 org.yaml:snakeyaml:1.25 FOURTH-PARTY DEPENDENCY #11 io.fabric8:zjsonpatch:0.3.0 FOURTH-PARTY DEPENDENCY #12 com.github.mifmif:generex:1.0.2 FOURTH-PARTY DEPENDENCY #13 org.springframework.security:spring-security-crypto:5.2.1.RELEASE FOURTH-PARTY DEPENDENCY #14 io.fabric8:kubernetes-model-common:4.4.1 COMMON LICENSE TEXT Apache License - See Appendix E FOURTH-PARTY DEPENDENCY #1 jakarta.xml.bind:jakarta.xml.bind-api:2.3.2 FOURTH-PARTY DEPENDENCY #2 jakarta.activation:jakarta.activation-api:1.2.1 Eclipse Distribution License - v 1.0 Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 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

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		DEPENDENCY #4 org.springframework:spring-aop:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #5 org.springframework:spring-beans:5.2.3.RELEASE FOURTH-PARTY DEPENDENCY #6 org.springframework:spring-expression:5.2.3.RELEASE Apache License - See Appendix E

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Pivotal Software, Inc	spring-cloud-starter-kubernetes 1.0.3.RELEASE	© 2020 Pivotal Software, Inc. All Rights Reserved ----- TOP-LEVEL LICENSE TEXT for org.springframework.cloud:spring-cloud-starter-kubernetes:1.0.3.RELEASE Apache License - See Appendix E ----- FOURTH-PARTY DEPENDENCY #1 org.springframework.cloud:spring-cloud-kubernetes-core:1.0.3.RELEASE FOURTH-PARTY DEPENDENCY #2 org.springframework.cloud:spring-cloud-kubernetes-discovery:1.0.3.RELEASE FOURTH-PARTY DEPENDENCY #3 org.springframework.boot:spring-boot-autoconfigure:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #4 org.springframework.boot:spring-boot:2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #5 org.springframework.cloud:spring-cloud-context:2.1.3.RELEASE APACHE 2.0 - See Appendix E © 2020 Pivotal Software, Inc. All Rights Reserved ----- FOURTH-PARTY DEPENDENCY #1 io.fabric8:kubernetes-client:4.1.0 FOURTH-PARTY DEPENDENCY #2 io.fabric8:kubernetes-model:4.1.0 FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.10.2

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Provider	Component (s)	Licensing Information
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Spring IO	spring-cloud-starter-kubernetes-config 1.1.2	TOP-LEVEL COPYRIGHT NOTICE for org.springframework.cloud:spring-cloud-starter-kubernetes-config © 2020 Pivotal Software, Inc. All Rights Reserved -----separator----- TOP-LEVEL LICENSE TEXT for org.springframework.cloud:spring-cloud-starter-kubernetes-config:1.0.3.RELEASE APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.springframework.cloud:spring-cloud-kubernetes-core 1.0.3.RELEASE FOURTH-PARTY DEPENDENCY #2 org.springframework.cloud:spring-cloud-kubernetes-config 1.0.3.RELEASE FOURTH-PARTY DEPENDENCY #3 io.fabric8:kubernetes-client 4.1.0 FOURTH-PARTY DEPENDENCY #4 org.springframework.boot:spring-boot-autoconfigure 2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #5 org.springframework.cloud:spring-cloud-context 2.2.1.RELEASE COMMON COPYRIGHT NOTICES Copyright © 2020 Pivotal Software, Inc.. All rights reserved. COMMON LICENSE TEXT APACHE 2.0 - See Appendix E

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Provider	Component (s)	Licensing Information	L i c e n s i n g i n f o r m a t i o n
		io.fabric8:kubernetes-model-core:4.13.3(*) FOURTH-PARTY DEPENDENCY #23 io.fabric8:kubernetes-model-common:4.13.3(*) FOURTH-PARTY DEPENDENCY #24 io.fabric8:kubernetes-model-admissionregistration:4.13.3 FOURTH-PARTY DEPENDENCY #25 io.fabric8:kubernetes-model-apps:4.13.3 FOURTH-PARTY DEPENDENCY #26 io.fabric8:kubernetes-model-autoscaling:4.13.3 FOURTH-PARTY DEPENDENCY #27 io.fabric8:kubernetes-model-apiextensions:4.13.3 FOURTH-PARTY DEPENDENCY #28 io.fabric8:kubernetes-model-batch:4.13.3 FOURTH-PARTY DEPENDENCY #29 io.fabric8:kubernetes-model-certificates:4.13.3 FOURTH-PARTY DEPENDENCY #30 io.fabric8:kubernetes-model-coordination:4.13.3 FOURTH-PARTY DEPENDENCY #31 io.fabric8:kubernetes-model-discovery:4.13.3 FOURTH-PARTY DEPENDENCY #32 io.fabric8:kubernetes-model-events:4.13.3 FOURTH-PARTY DEPENDENCY #33 io.fabric8:kubernetes-model-extensions:4.13.3 FOURTH-PARTY DEPENDENCY #34 io.fabric8:kubernetes-model-	

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Provider	Component (s)	Licensing Information
		networking:4.13.3 FOURTH-PARTY DEPENDENCY #35 io.fabric8:kubernetes-model-metrics:4.13.3 FOURTH-PARTY DEPENDENCY #36 io.fabric8:kubernetes-model-policy:4.13.3 FOURTH-PARTY DEPENDENCY #37 io.fabric8:kubernetes-model-scheduling:4.13.3 FOURTH-PARTY DEPENDENCY #38 io.fabric8:kubernetes-model-settings:4.13.3 FOURTH-PARTY DEPENDENCY #39 io.fabric8:kubernetes-model-storageclass:4.13.3 FOURTH-PARTY DEPENDENCY #40 io.fabric8:kubernetes-model-node:4.13.3 FOURTH-PARTY DEPENDENCY #41 io.fabric8:kubernetes-model-core:4.13.3 FOURTH-PARTY DEPENDENCY #42 io.fabric8:kubernetes-model-common:4.13.3 /** * Copyright (C) 2015 Red Hat, 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 * * http://www.apache.org/licenses/LICENSE-2.0

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Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #52 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.11.2->2.12.3 FOURTH-PARTY DEPENDENCY #53 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.11.2->2.12.3(*) Copyright © FasterXML. All rights reserved. COMMON LICENSE TEXT Same as TEXT mentioned under TOP-LEVEL License Text

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Provider	Component (s)	Licensing Information
Spring IO	spring-cloud-starter-kubernetes-fabric8-config 2.0.3	TOP-LEVEL COPYRIGHT NOTICE for org.springframework.cloud:spring-cloud-starter-kubernetes-fabric8-config © 2021 VMware, Inc. or its affiliates. -----separator----- TOP-LEVEL LICENSE TEXT for org.springframework.cloud:spring-cloud-starter-kubernetes-fabric8-config:2.0.3 APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.springframework.cloud:spring-cloud-kubernetes-commons 2.0.3 FOURTH-PARTY DEPENDENCY #2 org.springframework.cloud:spring-cloud-kubernetes-fabric8-autoconfig 2.0.3 FOURTH-PARTY DEPENDENCY #3 org.springframework.cloud:spring-cloud-kubernetes-fabric8-config 2.0.3 FOURTH-PARTY DEPENDENCY #4 io.fabric8:kubernetes-client 4.13.3 FOURTH-PARTY DEPENDENCY #5 org.springframework.boot:spring-boot-autoconfigure 2.5.2 FOURTH-PARTY DEPENDENCY #6 org.springframework.boot:spring-boot-starter:2.5.2 FOURTH-PARTY DEPENDENCY #7 org.springframework.cloud:spring-cloud-context:3.0.3 FOURTH-PARTY DEPENDENCY #8 org.springframework.cloud:spring-cloud-

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Provider	Component (s)	Licensing Information
		commons:3.0.3 FOURTH-PARTY DEPENDENCY #9 org.springframework.cloud:spring-cloud-starter-bootstrap:3.0.3 FOURTH-PARTY DEPENDENCY #10 org.springframework.cloud:spring-cloud-starter:3.0.3 COMMON COPYRIGHT NOTICES © 2021 VMware, Inc. or its affiliates. COMMON LICENSE TEXT Same as TEXT mentioned under TOP-LEVEL License Text

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B

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C

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===== File 3 of 38: configure

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

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===== File 19 of 38: ext/mbstring/oniguruma/enc/gb18030.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 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 34 of 38: win32/flock.c
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