

Oracle® Communications

Cloud Native Core Licensing Information User Manual



Release 2.23.2

F82040-01

May 2023

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

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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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network.</p> <p>This CNE SKU is an optional SKU only when the customer is purchasing the CNE from Oracle.</p> <p>Given license provide access to following capabilities: Cloud Native Environment (CNE), CNCF Tools</p> <p>Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers:</p> <ul style="list-style-type: none"> • 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
		<ul style="list-style-type: none"> • 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	Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Authentication Server Function (AUSF) is responsible of the primary authentication and key agreement procedures carried out to enable mutual authentication between UE and network. It provides keying material that can be used between the UE and network in subsequently security procedures. This license is based on per 25k active subscribers perpetual.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers:</p> <p>Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers</p> <p>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.</p> <p>Counting Mechanism: Since Unified Data Management is a prerequisites for AUSF. Unified Data Management counts unique device identifiers that it has activated.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers	<p>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):</p> <ul style="list-style-type: none"> • Message manipulation between HTTP <=> HTTP. <p>Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • 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	<p>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:</p> <ul style="list-style-type: none"> • Message manipulation between HTTP <=> HTTP. <p>Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, InterWorking and Mediation Function for NB-IoT- per 25K Active Subscribers: Perpetual</p> <ul style="list-style-type: none"> • 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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Binding Support Function (BSF) provides session binding functionality, which ensures request for session reaches the relevant PCF holding the session information.</p> <p>This service:</p> <ul style="list-style-type: none"> • Allows Network Function (NF) consumers to register, update and remove the binding information; and • Allows Network Function (NF) consumers to retrieve the binding information. <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: BSF counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack B - per 25K Active Subscribers	<p>Description: This sub-product adds optional features to Binding Support Function.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>Overall this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: cnPCRF and PCF counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack B - per 25K Active Subscribers	<p>Description: This sub-product adds optional features to Converged Policy.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites : None</p> <p>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.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Exposure Function (NEF) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF.</p> <p>The NEF Northbound interface supports the following procedures:</p> <ul style="list-style-type: none"> • 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 <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: NEF counts unique device identifiers as it processes messages</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Repository Function (NRF) supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>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:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> • 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	<p>Description: This sub-product adds optional features to Network Repository Function.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>Prerequisites: None.</p> <p>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.</p> <p>Counting Mechanism: PCF counts unique device identifiers as it processes messages.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers	<p>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.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None.</p> <p>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.</p> <p>Counting Mechanism: cnPCRF counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers	<p>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).</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Security Edge Protection Proxy (SEPP) is a nontransparent proxy that supports message filtering and policing on inter-PLMN control-plane interfaces and topology hiding for the PLMN network. A SEPP function should perform the firewall role for transactions between domains. Given that the SEPP is the point where integrity protection and encryption are applied, the SEPP has visibility into each aspect of a transaction.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: SEPP counts unique device identifiers as it processes messages.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Service Communication Proxy (SCP) addresses introduction of 5G Service Based Architecture and the usage of HTTP/2 for signaling. Provides congestion control in cases of flooding and at the same time protect servers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/ Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: SCP counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack B - per 25K Active Subscribers	<p>Description: This sub-product adds optional features to Service Communication Proxy.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>Description:</p> <p>This subproduct adds the following feature to the Oracle Communications Cloud Native Core.</p> <p>The Subscriber Location Function (SLF) is an entity of 5G network which it is used to identify a subscriber to a specific network function. This license is based on per 25k active subscribers perpetual.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites:</p> <p>The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • 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 <p>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.</p> <p>Counting Mechanism: SLF counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack B – per 25K Active Subscribers	<p>Description: This sub-product adds optional features to Subscriber Location Function.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unified Data Repository (UDR) is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR are collectively known as application front ends.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: UDR counts unique device identifiers that it has activated</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unstructured Data Storage Function (UDSF) is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on per 25k active subscribers perpetual.</p> <p>Network Function license provides Console and Data Tier capabilities.</p> <p>Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function – per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers <p>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.</p> <p>Counting Mechanism: Since UDR is a prerequisite for UDSF. UDR counts unique device identifiers that it has activated.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Automated Test Tools and Scripts Suite - Per Node	<p>Description: The sub-product adds the following features to the Oracle Communications Cloud Native Core Network Functions.</p> <p>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.</p> <p>From a license perspective, this SKU is applicable only to Network Function SKUs and not to the features.</p> <p><i>License quantity requirement is based on number of network functions (NFs) and number of system under testing (SUT). It can be calculated by multiplying number of network functions (NFs) and number of system under testing (SUT) .</i></p> <p>Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Automated Test Tools and Scripts Suite – per Node.</p> <p>Any Oracle Communications Cloud Native Core Network Function, except:</p> <ul style="list-style-type: none"> • 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	<p>Description: This sub-product adds optional features to Converged Policy. Refer to the Cloud Native Core release notes for more details on feature content.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> 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	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> 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	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> 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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual provides tools and capabilities to run cloud native network functions in the network.</p> <p>This optional license provide access to following capabilities:</p> <ul style="list-style-type: none"> • Cloud Native Environment (CNE) • CNCF Tools <p>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:</p> <ul style="list-style-type: none"> • 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
		<ul style="list-style-type: none"> 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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>The NEF for NB-IoT Northbound interface supports the following procedures:</p> <ul style="list-style-type: none"> 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 <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: NEF for NB-IoT counts unique device identifiers as it processes messages</p>

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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>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.</p> <p>If SLF for NB-IoT is not deployed: the subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> • 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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs:</p> <ul style="list-style-type: none"> • 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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: SEPP NB-IoT counts unique device identifiers as it processes messages.</p>

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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: None</p> <p>Entitled Products and Restricted Use</p> <p>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.</p> <p>Counting Mechanism: SCP NB-IoT counts unique device identifiers as it processes messages.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function for NB-IoT - 25K Active Subscribers Perpetual	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> • 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 <p>Counting Mechanism: SLF NB-IoT counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual	<p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: PCF NB-IoT counts unique device identifiers as it processes messages.</p>

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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>This service:</p> <ul style="list-style-type: none"> • Allows Network Function (NF) consumers to register, update and remove the binding information; and • Allows Network Function (NF) consumers to retrieve the binding information. <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: BSF NB-IoT counts unique device identifiers as it processes messages.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: UDR NB-IoT counts unique device identifiers that it has activated</p>

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	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers Perpetual:</p> <ul style="list-style-type: none"> Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual <p>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.</p> <p>Counting Mechanism: Since UDR NB-IoT is a prerequisite for UDSF NB-IoT. UDR NB-IoT counts unique device identifiers that it has activated.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual	<p>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.</p> <p>Prerequisites: None</p> <p>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.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual	<p>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.</p> <p>Overall, this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time.</p> <p>Prerequisites: None</p> <p>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.</p>
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual	<p>Description: This sub product adds the following features to the Oracle Communications Cloud Native Core.</p> <p>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.</p> <p>Prerequisites: None</p> <p>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.</p> <p>Counting Mechanism: cnPCRF NB-IoT counts unique device identifiers as it processes messages.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, 5G Equipment Identity Register - 25K Active Subscribers	<p>This subproduct adds the following features to the Oracle Communications Cloud Native Core –</p> <ul style="list-style-type: none"> • 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 <p>Prerequisites: None.</p> <p>Entitled Products and Restricted Use Licenses: None</p> <p>Counting Mechanism: EIR counts unique device identifiers as it processes messages.</p>

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Automated Lifecycle Management - 25K Active Subscribers	<p>This subproduct adds the following features to the Oracle Communications Cloud Native Core:</p> <ul style="list-style-type: none"> • 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. <p>Prerequisites: The following license is required to use Oracle Communications Cloud Native Core, Automated Lifecycle Management:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers <p>Also, any one of following licenses is required in addition to the above license:</p> <ul style="list-style-type: none"> • 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 Oracle Communications Cloud Native Core, Cloud Native Environment 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Environment 23.2.0:

- exabgp 4.2.21
- Flask 2.2.3
- HAproxy 2.6.7
- Jenkins 2.386
- Kubernetes Python Client 25.3.0
- Kubespray 2.21.0
- OpenLDAP 2.5.14
- Oracle OpenSearch 1.2.3
- Prometheus Python Client 0.15.0
- python-json-logger 2.0.4
- python-openstackclient 6.1.0

- pyyaml 6.0
- Schedule 1.2.0
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-test 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-boot-starter-webflux 2.7.10
- vcd-cli 24.1.0

3.2.2 Automated Test Suite 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Automated Test Suite (ATS) 23.2.0:

- behave 1.2.6
- Blue Ocean 1.27.4
- client-go 0.22.6
- colorlog 6.7.0
- dnspython 2.2.1
- Flask 2.3.2
- geckodriver 0.32.0
- Golang 1.17.10-1.module+el8.6.0+20691+4e76a6d9
- gorilla/mux 1.8.0
- HTML Publisher Plug-in 1.31
- http2 v0.7.0
- http2 0.9.0
- httpx 0.24.0
- httpx 0.23.3
- jackson-annotations 2.14.1
- jackson-databind 2.14.1
- jackson-dataformat-yaml 2.14.1
- Jenkins 2.403
- Jenkins active choices plug-in 2.6.5
- JMeter 5.5
- jsonmerge 1.9.0

- jwcrypto 1.4.2
- kafka-python 2.0.2
- Kubernetes & OpenShift Java Client 6.6.0
- Kubernetes Python Client 24.2.0
- Login Theme Plugin for Jenkins 1.1
- Matrix Authorization Strategy Plug-in 3.1.6
- Pexpect 4.8.0
- Pipeline Plugin 596.v8c21c963d92d
- Prometheus Go client library 1.15.0
- Prometheus Python Client 0.15.0
- pytest 6.2.5
- Python Elasticsearch Client 7.10.1
- pyyaml 6.0
- Quart 0.18.0
- requests 2.28.2
- Seagull 1.8.1.2.417-0
- Selenium - Python 4.7.2
- Simple Theme Plugin for Jenkins 146.v0e67db_a_9052e
- slf4j-api 2.0.6
- SnakeYAML 2.0
- test-results-analyzer-plugin 0.4.0
- TinyDB 4.5.2

3.2.3 Oracle Communications Cloud Native Core, Binding Support Function 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Binding Support Function 23.2.0:

- @hapi/inert 6.0.5
- @hapi/wreck 18.0.0
- @hapi/wreck 18.0.0
- bcpxix-jdk15on 1.70
- bind-utils 9.11.36-3
- Blockly 8.0.0
- Brave 5.14.0
- Brave OpenTracing Java Bridge for Zipkin 1.0.0
- bucket4j 7.6.0
- caffeine 3.0.5

- coherence-spring-boot-starter 3.0.0
- colorlog 6.4.1
- Commons Codec 1.15
- Commons CSV 1.10.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- Commons Pool 2.11.1
- deep-diff 1.0.2
- dnsjava 3.5.1
- dnspython 2.2.1
- dotenv 16.0.3
- Equals Verifier 3.7.2
- fastjson 1.2.83
- file-saver 2.0.5
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 31.1
- gunicorn 20.1.0
- hapi 20.2.1
- HikariCP 5.0.1
- HTML Publisher Plug-in 1.28
- http2 0.0.0-20210908191846-a5e095526f91
- HttpComponents HttpClient 4.5.14
- HttpCore NIO 4.4.15
- httpx 0.24.0
- httpx 0.23.3
- import-fresh 3.3.0
- influxdb-java 2.22
- ip 1.1.8
- ipaddress 5.3.4
- jackson-databind 2.13.4.2
- jackson-datatype-jdk8 2.13.4
- jackson-datatype-joda 2.13.4
- jackson-datatype-jsr310 2.13.4
- jaeger-client-js 3.19.0
- JavaScript Extension Toolkit (JET) 12.1.13

- Javassist 3.29.2-GA
- javax inject 1
- Jenkins 2.319.2
- Jenkins active choices plug-in 2.5.7
- jersey-client 2.39
- jersey-common 2.39
- jersey-hk2 2.39
- jersey-media-json-jackson 2.39
- jersey-media-multipart 2.39
- jersey-server 2.39
- Jetty 9.4.51.v20230217
- Jetty ReactiveStream HttpClient 1.1.12
- Jinja2 3.1.2
- jjwt 0.11.5
- jQuery 3.6.1
- jSMPP 3.0.0
- JSON in Java 20230227
- jsonEditor 9.5.6
- json-path 2.8.0
- json-schema-validator 1.0.71
- json-smart 2.4.10
- js-yaml 4.1.0
- JSZip 3.10.1
- jwcrypto 1.0
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- 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 1.3.1
- Login Theme Plugin for Jenkins 1.1
- Lombok 1.18.22
- matplotlib 3.7.1
- Matrix Authorization Strategy Plug-in 2.6.8
- metrics-core 4.1.32
- micrometer-registry-prometheus 1.9.5
- mkdirp 3.0.0
- mocha 10.2.0
- 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
- Node.js 16.18.1-3.module+el8.7.0+20893+df13f383
- 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
- Pipeline Plugin 2.6
- Prometheus JVM Client Servlet 0.15.0
- Prometheus Python Client 0.15.0
- Protocol Buffers (aka Google protobuf) 3.21.8
- pytest 6.2.5
- Python Elasticsearch Client 7.15.0
- python-dateutil 2.8.2
- python-mysqldb 2.1.1
- pyyaml 6.0
- Reactor Core 3.5.5
- reactor-test 3.4.15
- requests 2.28.2
- Simple Theme Plugin for Jenkins 0.7
- slf4j-api 2.0.6

- slf4j-api 1.7.36
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.26
- Spring Retry 1.3.4
- spring-boot-devtools 2.7.10
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-cache 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-jdbc 2.7.10
- spring-boot-starter-jersey 2.7.10
- spring-boot-starter-jetty 2.7.10
- spring-boot-starter-log4j2 2.7.10
- 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 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-boot-starter-webflux 2.7.10
- spring-boot-starter-web-services 2.7.10
- 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 2.1.3
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 2.1.3
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.8.3
- spring-security-core 5.7.5
- spring-ws-security 3.1.6
- test-results-analyzer-plugin 0.4.0
- TinyDB 4.5.2
- Tomcat 9.0.73
- TypeScript 4.6.4
- undertow-core 2.2.23.Final
- validation-api 2.0.1.Final

- winston 3.6.0
- wiremock 2.31.0
- XStream 1.4.20
- Zipkin 2.23.16
- zipkin-reporter-java 2.16.3

3.2.4 Oracle Communications Cloud Native Configuration Console 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Configuration Console 23.2.0:

- bind-utils 9.11.36-5
- Blockly 8.0.0
- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- file-saver 2.0.5
- gnu tar 1.30-6
- GSON 2.10
- Guava 31.1
- HikariCP 5.0.1
- jackson-databind 2.13.4.2
- jackson-datatype-joda 2.13.4
- 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 11.0.11
- Jetty ReactiveStream HttpClient 1.1.12
- Jetty ReactiveStream HttpClient 3.0.6
- Jetty ReactiveStream HttpClient 3.0.8
- JsonPath 2.6.0
- js-yaml 4.1.0
- JSZip 3.10.1
- Keycloak 21.0.2

- Kubernetes Client Java 6.1.1
- Kubernetes Java Client 16.0.0
- 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 1.9.1
- micrometer-registry-prometheus 1.9.5
- 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) 3.21.7
- slf4j-api 1.7.32
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.26
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.4
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-jdbc 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-oauth2-client 2.7.10
- spring-boot-starter-oauth2-resource-server 2.7.10
- spring-boot-starter-test 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- Springfox 3.0.0
- spring-kafka 2.9.2
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final

- winston 3.6.0

3.2.5 Oracle Communications Cloud Native Core, Network Exposure Function 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Exposure Function 23.2.0:

- bcpkix-jdk15on 1.70
- bind-utils 9.11.36-5
- bucket4j 7.6.0
- caffeine 3.0.5
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0
- dnsjava 3.5.1
- gnu tar 1.30-6
- Guava 31.1
- HttpComponents Client 5.1.3
- ipaddress 5.3.4
- jackson-databind 2.13.4.2
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.8
- jjwt 0.11.5
- JsonPath 2.7.0
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- Kubernetes Java Client 15.0.1
- log4j-layout-template-json 2.17.2
- Lombok 1.18.22
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.4
- micrometer-registry-prometheus 1.9.5
- net-tools 2.0-0.52.20160912git
- okhttp-logging-interceptor 4.9.3
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- opentelemetry-sdk-trace 1.25.0
- opentracing-spring-jaeger-web-starter 3.3.1
- reactor-core 3.4.18

- reactor-core 3.5.0
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.26
- spring-boot-devtools 2.7.10
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-oauth2-client 2.7.10
- spring-boot-starter-oauth2-resource-server 2.7.10
- spring-boot-starter-test 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-boot-starter-webflux 2.7.10
- 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 2.9.2
- spring-security-core 5.7.8
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final

3.2.6 Oracle Communications Cloud Native Core, Network Repository Function 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Repository Function 23.2.0:

- bind-utils 9.11.36-5
- bucket4j 7.6.0
- caffeine 3.0.5
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0
- dnsjava 3.5.1
- Flask 2.0.2
- gnu tar 1.30-6
- Guava 31.1

- gunicorn 20.1.0
- ipaddress 5.3.4
- jackson-core 2.13.1
- jackson-databind 2.13.4.2
- JavaScript Extension Toolkit (JET) 12.1.0
- jersey-client 2.35
- jersey-hk2 2.35
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.1.2
- jjwt 0.11.5
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- 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
- Lombok 1.18.22
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.5
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- opentelemetry-sdk-trace 1.25.0
- 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
- Prometheus Python Client 0.15.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- python-dateutil 2.8.2
- python-mysqldb 2.1.1
- pyyaml 6.0

- Reactor Core 3.4.15
- reactor-netty-http 1.0.24
- requests 2.28.2
- slf4j-api 1.7.32
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.26
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-cache 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-jdbc 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-oauth2-client 2.7.10
- spring-boot-starter-oauth2-resource-server 2.7.10
- spring-boot-starter-test 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- spring-kafka 2.9.2
- Spring-Security-Config 5.7.8
- spring-security-core 5.7.8
- Spring-Security-Web 5.7.8
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final

3.2.7 Oracle Communications Cloud Native Core, Network Slice Selection Function 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Slice Selection Function 23.2.0:

- Bouncy Castle Crypto API 1.69
- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0

- Commons IO 2.11.0
- dnsjava 3.5.1
- Guava 31.1
- HttpComponents Client 5.1.3
- ipaddress 5.3.4
- jackson-core 2.13.1
- jackson-databind 2.13.4.2
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.6
- jjwt 0.11.5
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- micrometer-registry-prometheus 1.9.1
- OkHttp 4.10.0
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- opentelemetry-sdk-trace 1.25.0
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- reactor-core 3.4.18
- reactor-netty-http 1.0.24
- SnakeYAML 1.32
- SnakeYAML 2.0
- Spring Cloud Starter Gateway 3.0.7
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-cache 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-test 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-boot-starter-webflux 2.7.10
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3

- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-security-config 5.7.5
- spring-security-core 5.7.5
- Undertow 2.3.0.Final

3.2.8 Oracle Communications Cloud Native Core, Cloud Native Core Policy 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Core Policy 23.2.0:

- @hapi/inert 6.0.5
- @hapi/wreck 18.0.0
- @hapi/wreck 18.0.0
- bcpkix-jdk15on 1.70
- bind-utils 9.11.36-3
- Blockly 8.0.0
- Brave 5.14.0
- Brave OpenTracing Java Bridge for Zipkin 1.0.0
- bucket4j 7.6.0
- caffeine 3.0.5
- coherence-spring-boot-starter 3.0.0
- colorlog 6.4.1
- Commons Codec 1.15
- Commons CSV 1.10.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- Commons Pool 2.11.1
- deep-diff 1.0.2
- dnsjava 3.5.1
- dnspython 2.2.1
- dotenv 16.0.3
- Equals Verifier 3.7.2
- fastjson 1.2.83
- file-saver 2.0.5
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10

- Guava 31.1
- gunicorn 20.1.0
- hapi 20.2.1
- HikariCP 5.0.1
- HTML Publisher Plug-in 1.28
- http2 0.0.0-20210908191846-a5e095526f91
- HttpComponents HttpClient 4.5.14
- HttpCore NIO 4.4.15
- import-fresh 3.3.0
- influxdb-java 2.22
- ip 1.1.8
- ipaddress 5.3.4
- jackson-databind 2.13.4.2
- jackson-dataformat-yaml 2.14.1
- jackson-datatype-jdk8 2.13.4
- jackson-datatype-joda 2.13.4
- jackson-datatype-jsr310 2.13.4
- jaeger-client-js 3.19.0
- JavaScript Extension Toolkit (JET) 12.1.13
- Javassist 3.29.2-GA
- javax inject 1
- Jenkins 2.319.2
- Jenkins active choices plug-in 2.5.7
- jersey-client 2.39
- jersey-common 2.39
- jersey-hk2 2.39
- jersey-media-json-jackson 2.39
- jersey-media-multipart 2.39
- jersey-server 2.39
- Jetty 9.4.51.v20230217
- Jetty ReactiveStream HttpClient 1.1.12
- Jinja2 3.1.2
- jjwt 0.11.5
- jQuery 3.6.1
- jSMPP 3.0.0
- JSON in Java 20230227
- jsonEditor 9.5.6

- json-path 2.8.0
- json-schema-validator 1.0.71
- json-smart 2.4.10
- js-yaml 4.1.0
- JSZip 3.10.1
- jwcrypto 1.0
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- LMAX Disruptor 3.4.2
- Lockable resources plug-in 2.11
- Lockable resources plug-in 1106.vc9153f1a_ff25
- 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 1.3.1
- Login Theme Plugin for Jenkins 1.1
- Lombok 1.18.22
- matplotlib 3.7.1
- Matrix Authorization Strategy Plug-in 2.6.8
- metrics-core 4.1.32
- micrometer-registry-prometheus 1.9.5
- mkdirp 3.0.0
- mocha 10.2.0
- 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
- Node.js 16.18.1-3.module+el8.7.0+20893+df13f383
- 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
- Pipeline Plugin 2.6
- Prometheus JVM Client Servlet 0.15.0
- Prometheus Python Client 0.15.0
- Protocol Buffers (aka Google protobuf) 3.21.8
- pytest 6.2.5
- Python Elasticsearch Client 7.15.0
- python-dateutil 2.8.2
- python-mysqldb 2.1.1
- pyyaml 6.0
- Reactor Core 3.5.5
- reactor-test 3.4.15
- requests 2.28.2
- Simple Theme Plugin for Jenkins 0.7
- slf4j-api 2.0.6
- slf4j-api 1.7.36
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.26
- Spring Retry 1.3.4
- spring-boot-devtools 2.7.10
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-cache 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-jdbc 2.7.10
- spring-boot-starter-jersey 2.7.10
- spring-boot-starter-jetty 2.7.10
- spring-boot-starter-log4j2 2.7.10
- 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 2.7.10

- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-boot-starter-webflux 2.7.10
- spring-boot-starter-web-services 2.7.10
- 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 2.1.3
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 2.1.3
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.8.3
- spring-security-core 5.7.5
- spring-ws-security 3.1.6
- test-results-analyzer-plugin 0.4.0
- TinyDB 4.5.2
- Tomcat 9.0.73
- TypeScript 4.6.4
- undertow-core 2.2.23.Final
- validation-api 2.0.1.Final
- winston 3.6.0
- wiremock 2.31.0
- XStream 1.4.20
- Zipkin 2.23.16
- zipkin-reporter-java 2.16.3

3.2.9 Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.2.0:

- bind-utils 9.11.36-5
- Bouncy Castle Crypto API 1.69
- Brave OpenTracing Java Bridge for Zipkin 1.0.0
- bucket4j 7.6.0
- coherence-spring-boot-starter 3.0.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0

- Commons Lang 3.12.0
- dnsjava 3.5.1
- Drools 8.32.0.Final
- Drools-mvel 8.32.0.Final
- Flask 2.0.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 31.1
- gunicorn 20.1.0
- HttpComponents Client 5.1.3
- HttpComponents HttpClient 4.5.14
- ipaddress 5.3.4
- jackson-annotations 2.13.1
- jackson-annotations 2.14.1
- jackson-core 2.13.1
- jackson-core 2.13.2
- jackson-databind 2.13.4.2
- jackson-databind 2.14.1
- jackson-datatype-joda 2.13.4
- jersey-client 2.35
- jersey-hk2 2.35
- jersey-media-json-jackson 2.35
- Jetty 11.0.13
- Jetty 9.4.50.V20221201
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 1.1.12
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.0.1
- Jinja2 3.1.2
- jjwt 0.11.5
- JSON in Java 20230227
- JsonPath 2.6.0
- JsonPath 2.7.0
- json-schema-validator 1.0.71
- json-schema-validator 1.0.74
- junit-vintage-engine 5.8.2
- Kubernetes Client Java 6.1.1

- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- 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 1.3.1
- Lombok 1.18.22
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.5
- micrometer-registry-prometheus 1.9.5
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- OkHttp 4.10.0
- okhttp-logging-interceptor 4.9.3
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- opentelemetry-sdk-trace 1.25.0
- opentracing-spring-jaeger-web-starter 3.3.1
- org.jacoco.agent 0.8.7
- pandas 1.3.3
- Prometheus Python Client 0.11.0
- Prometheus Python Client 0.15.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- python-dateutil 2.8.2
- python-mysqldb 2.1.1
- pyyaml 6.0
- Reactor Core 3.4.15
- Reactor Core 3.5.5
- reactor-core 3.4.18
- reactor-core 3.5.0
- requests 2.26.0
- requests 2.28.2
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7

- Spring Framework 5.3.26
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-cache 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-jdbc 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-oauth2-client 2.7.7
- spring-boot-starter-oauth2-resource-server 2.7.7
- spring-boot-starter-test 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-web 2.7.10
- spring-boot-starter-web 2.7.11
- spring-boot-starter-webflux 2.7.10
- spring-boot-starter-webflux 2.7.11
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- Springfox 3.0.0
- spring-kafka 2.9.2
- spring-security-config 5.7.5
- spring-security-core 5.7.5
- spring-security-core 5.7.8
- spring-security-web 5.7.5
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final
- xnio-nio 3.8.8.Final

3.2.10 Oracle Communications Cloud Native Core, Service Communication Proxy 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Service Communication Proxy 23.2.0:

- bind-utils 9.11.36-5
- bucket4j 7.6.0
- client-go 0.22.6

- Commons IO 2.11.0
- dnsjava 3.5.1
- Drools 8.32.0.Final
- Drools-mvel 8.32.0.Final
- gnu tar 1.30-6
- ipaddress 5.3.4
- jackson-databind 2.14.1
- jackson-dataformat-yaml 2.14.1
- jackson-datatype-joda 2.13.4
- jackson-module-afterburner 2.13.4
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.6
- Jetty ReactiveStream HttpClient 3.0.8
- JSON in Java 20230227
- Kubernetes Java Client 16.0.0
- micrometer-registry-prometheus 1.9.5
- net-tools 2.0-0.52.20160912git
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- opentelemetry-sdk-trace 1.25.0
- opentracing-spring-jaeger-web-starter 3.3.1
- Spring Retry 1.3.4
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-data-jpa 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-validation 2.7.10
- spring-boot-starter-webflux 2.7.10
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.9.2
- tcpdump 4.9.3-3
- zjsonpatch 0.4.12

3.2.11 Oracle Communications Cloud Native Core, Unified Data Repository 23.2.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Unified Data Repository 23.2.0:

- bind-utils 9.11.36-5
- bucket4j 7.6.0
- caffeine 3.0.5
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0
- Commons Text 1.10.0
- CXF 3.5.5
- dnsjava 3.5.1
- Flask 2.0.2
- gnu tar 1.30-6
- Guava 31.1
- gunicorn 20.1.0
- HttpComponents Client 5.1.3
- ipaddress 5.3.4
- jackson-core 2.13.1
- jackson-databind 2.13.4.2
- jackson-databind 2.14.1
- jackson-datatype-joda 2.13.4
- jersey-client 2.35
- jersey-hk2 2.35
- Jetty 9.4.48.v20220622
- Jetty 11.0.11
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.0.1
- jjwt 0.11.5
- JSON in Java 20230227
- JSON Schema 1.14.1
- json-schema-validator 1.0.74
- Kubernetes Client Java 6.1.1
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- 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
- Lombok 1.18.22
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.4
- mockito-inline 4.6.1
- 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
- pandas 1.3.3
- Prometheus Python Client 0.11.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- python-dateutil 2.8.2
- pyyaml 6.0
- reactor-netty-http 1.0.16
- requests 2.26.0
- SnakeYAML 1.32
- Spring Batch 4.3.6
- Spring Cloud Starter Gateway 3.0.7
- Spring Retry 1.3.4
- Spring-boot-starter 2.7.10
- spring-boot-starter-actuator 2.7.10
- spring-boot-starter-jdbc 2.7.10
- spring-boot-starter-log4j2 2.7.10
- spring-boot-starter-oauth2-client 2.7.10
- spring-boot-starter-oauth2-resource-server 2.7.10
- spring-boot-starter-test 2.7.10
- spring-boot-starter-undertow 2.7.10
- spring-boot-starter-web 2.7.10
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3

- springdoc-openapi-ui 1.6.4
- spring-integration-file 5.5.13
- spring-kafka 2.9.2
- spring-security-config 5.7.5
- spring-security-core 5.7.5
- spring-security-web 5.7.5
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final

3.2.12 Oracle Communications Cloud Native Core, Licensing Information

Table 3-1 Oracle Communications Cloud Native Core, Licensing Information

Provider	Component (s)	Licensing Information
Google	Protocol Buffers (aka Google protobuf) 3.21.7 Protocol Buffers (aka Google protobuf) 3.21.8	From the LICENSE file in the download packages URL for License and Copyright Notice - https://github.com/protocolbuffers/protobuf/blob/master/LICENSE Copyright 2008 Google Inc. All rights reserved. See Appendix M Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

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

Provider	Component (s)	Licensing Information
JBoss	Drools-mvel 8.32.0.Final	<pre> org.drools:drools-mvel (Apache-2.0) Copyright (c) 2020. Red Hat, Inc. and/or its affiliates. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. 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. Apache License Version 2.0, January 2004 http://www.apache.org/ licenses/ See Appendix E ===== ##### ## org.kie:kie-api (Apache-2.0) Copyright 2013 Red Hat, Inc. and/or its affiliates. ===== ##### ## org.kie:kie-internal (Apache-2.0) Copyright 2013 Red Hat, Inc. and/or its affiliates. ===== ##### ## org.drools:drools-core (Apache-2.0) Copyright 2010 Red Hat, Inc. and/or its affiliates. </pre>

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

Provider	Component (s)	Licensing Information
		<pre> org.drools:drools-core depends on the following technologies/licenses. - org.kie:kie-util-xml (Apache-2.0) - org.drools:drools-wiring-api (Apache-2.0) - org.drools:drools-wiring-static (Apache-2.0) - org.drools:drools-io (Apache-2.0) - org.drools:drools-util (Apache-2.0) - commons-codec:commons-codec (Apache-2.0) ----- #### org.kie:kie-util-xml (Apache-2.0) Copyright 2017 Red Hat, Inc. and/or its affiliates. ----- #### org.drools:drools-wiring-api (Apache-2.0) Copyright 2022 Red Hat, Inc. and/or its affiliates. Copyright 2005 JBoss Inc ----- #### org.drools:drools-wiring-static (Apache-2.0) Copyright 2019 Red Hat, Inc. and/or its affiliates. ----- #### org.drools:drools-io (Apache-2.0) Copyright 2010 Red Hat, Inc. and/or its affiliates ----- #### org.drools:drools-util (Apache-2.0) Copyright 2015 Red Hat, Inc. and/or its affiliates. ----- #### commons-codec:commons-codec (Apache-2.0) * Licensed to the Apache Software Foundation (ASF) under one or more </pre>

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FasterXML, LLC	jackson-module-afterburner 2.13.4	Apache 2.0 See Appendix E
Flipkart	zjsonpatch 0.4.012	Apache 2.0 See Appendix E
SnakeYAML.org	SnakeYAML 1.31 SnakeYAML 1.32	Apache 2.0 See Appendix E
Project Reactor	reactor-netty-http 1.0.16 reactor-netty-http 1.0.24	Apache 2.0 See Appendix E
fabric8io	Kubernetes Client Java 6.1.1	Apache 2.0 See Appendix E

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Provider	Component (s)	Licensing Information
vcd-cli	vcd-cli 24.0.1	<p>VMware vCloud Director CLI</p> <p>Copyright (c) 2018 VMware, Inc. All rights reserved</p> <p>The Apache 2.0 license (the "License") set forth below applies to all parts of the VMware vCloud Director CLI project. You may not use this file except in compliance with the License.</p> <p>Apache License</p> <p>Version 2.0, January 2004</p> <p>http://www.apache.org/licenses/</p> <p>See Appendix E</p> <p>4P Dependency:</p> <p>click >= 7.0 -> BSD</p> <p>colorama >= 0.3.9 -> BSD</p> <p>keyring >= 10.6.0, <= 12.0.0 -> MIT</p> <p>pycryptodome == 3.6.6 -> BSD</p> <p>pywin32 >= 223;platform_system=="Windows"</p> <p>pyvcloud >= 23.0.1, < 24.0.0 -> Apache 2.0</p> <p>tabulate >= 0.7.5 -> MIT</p> <p>unittest-xml-reporting >= 2.2.1 -> BSD</p> <p>click >= 7.0</p> <p>Copyright 2014 Pallets</p> <p>See Appendix M</p> <p>colorama >= 0.3.9</p> <p>Copyright (c) 2010 Jonathan Hartley</p> <p>All rights reserved.</p> <p>See Appendix M</p> <p>keyring >= 10.6.0, <= 12.0.0 -> MIT</p> <p>Copyright Jason R. Coombs</p> <p>See Appendix G</p> <p>pycryptodome == 3.6.6</p> <p>The source code in PyCryptodome is partially in the public domain and partially released under the BSD 2-Clause license.</p> <p>In either case, there are minimal if no restrictions on the redistribution, modification and usage of the software.</p> <p>Public domain</p> <p>All code originating from PyCrypto is free and unencumbered software released into the public domain.</p> <p>Anyone is free to copy, modify, publish, use, compile, sell, or distribute this software, either in source code</p>

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		<p>Copyright (c) 2011-2020 Sergey Astanin and contributors</p> <p>See Appendix G</p> <p>unittest-xml-reporting >= 2.2.1</p> <p>Copyright (c) 2008-2013, Daniel Fernandes Martins All rights reserved.</p> <p>See Appendix M</p> <p>The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of the FreeBSD Project.</p>
Amenezes	config-client 1.0.1	<p>Apache License, version 2.0 - See Appendix E</p>
JBoss Open Source Community	Undertow 2.3.0 Final Undertow 2.7.4	<p>Apache License, version 2.0 - See Appendix E</p>

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

Provider	Component (s)	Licensing Information
Apache 2.0	Tensorflow 2.8.1	<p>== Tensorflow: +---And 4th party: absl-py, flatbuffers, google-pasta, keras, tensorflow-estimator, grpcio, tensorflow-io-gcs-filesystem Apache License, version 2.0 - See Appendix E ===== =====</p> <p>+--- 4th party: astunparse Copyright (c) 2014, Simon Percivall All rights reserved. See Appendix M</p> <p>PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2 -----</p> <p>1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.</p> <p>2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.</p> <p>3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.</p>

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Opentracing.io	opentracing-javascript 0.14.7	Apache License, version 2.0 - See Appendix E

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Fedor Indutny	ip 1.1.8	<pre> ip ----- This software is licensed under the MIT License. MIT License (MIT) See Appendix G </pre>

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Apache Software Foundation	HttpCore NIO 4.4.15	<p>HttpCore NIO</p> <p>License : Apache 2.0</p> <p>Notice:</p> <p>Apache HttpComponents Core Copyright 2005-2020 The Apache Software Foundation</p> <p>This product includes software developed at The Apache Software Foundation (http://www.apache.org/).</p> <p>Apache License, version 2.0 - See Appendix E</p>

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ISC	bind-utils 9.11.26-3 bind-utils 9.11.36-5	<p>Mozilla Public License, version 2.0 - See Appendix R</p>
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Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Oracle Communications Cloud Native Core, Licensing Information

Provider	Component (s)	Licensing Information
		<p>[The "BSD 3-clause license"] Copyright (c) 2012-2017 The ANTLR Project. All rights reserved. See Appendix M</p> <p>===== MIT License for codepointat.js from https://git.io/codepointat MIT License for fromcodepoint.js from https://git.io/vDW1m Copyright Mathias Bynens See Appendix G</p> <p>----- ----- ----- ----- ---- ----- Dependencies Grouped by License ----- ---Dependency jakarta.ejb-api ---Notice Notices for Jakarta Enterprise Beans This content is produced and maintained by the Jakarta Enterprise Beans project. Project home: https://projects.eclipse.org/projects/ee4j.ejb Trademarks Jakarta Enterprise Beans is a trademark of the Eclipse Foundation. Copyright All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs. Declared Project Licenses This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at https://www.gnu.org/software/classpath/license.html.</p>

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

Provider	Component (s)	Licensing Information
		<p>SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0</p> <p>Source Code</p> <p>The project maintains the following source code repositories:</p> <p>https://github.com/eclipse-ee4j/ejb-api</p> <p>Third-party Content</p> <p>Cryptography</p> <p>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.</p> <p>----Dependency</p> <p>jakarta.jms-api</p> <p>----Notice</p> <p>Notices for the Jakarta Messaging project</p> <p>This content is produced and maintained by the Jakarta Messaging project.</p> <p>Project home: https://projects.eclipse.org/projects/ee4j.messaging</p> <p>Trademarks</p> <p>Eclipse Project for JMS is a trademark of the Eclipse Foundation.</p> <p>Copyright</p> <p>All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.</p> <p>Declared Project Licenses</p> <p>This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at https://www.gnu.org/software/classpath/license.html.</p> <p>SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0</p> <p>Source Code</p>

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

Provider	Component (s)	Licensing Information
		<p>The project maintains the following source code repositories:</p> <p>https://github.com/eclipse-ee4j/messaging https://github.com/eclipse-ee4j/messaging-proposals</p> <p>Third-party Content</p> <p>Cryptography</p> <p>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.</p> <p>----Dependency</p> <p>jakarta.transaction-api</p> <p>----Notice</p> <p>Notices for Jakarta Transactions</p> <p>This content is produced and maintained by the Jakarta Transactions project.</p> <p>Project home: https://projects.eclipse.org/projects/ee4j.jta</p> <p>Trademarks</p> <p>Jakarta Transactions is a trademark of the Eclipse Foundation.</p> <p>Copyright</p> <p>All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.</p> <p>Declared Project Licenses</p> <p>This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at https://www.gnu.org/software/classpath/license.html.</p> <p>SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0</p> <p>Source Code</p> <p>The project maintains the following source code repositories:</p> <p>https://github.com/eclipse-ee4j/jta-api</p>

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

Provider	Component (s)	Licensing Information
		<p>Third-party Content</p> <p>This project leverages the following third party content.</p> <p>None</p> <p>Cryptography</p> <p>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.</p> <p>----Dependency</p> <p>jakarta.el-api</p> <p>-----Notice</p> <p>Notices for Jakarta Expression Language</p> <p>This content is produced and maintained by the Jakarta Expression Language project.</p> <p>Project home: https://projects.eclipse.org/projects/ee4j.el</p> <p>Trademarks</p> <p>Jakarta Expression Language is a trademark of the Eclipse Foundation.</p> <p>Copyright</p> <p>All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.</p> <p>Declared Project Licenses</p> <p>This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at https://www.gnu.org/software/classpath/license.html.</p> <p>SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0</p> <p>Source Code</p> <p>The project maintains the following source code repositories:</p> <p>https://github.com/eclipse-ee4j/el-ri</p> <p>Third-party Content</p>

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

Provider	Component (s)	Licensing Information
		<p>---Dependency kie-api kie-internal kie-soup-maven-support kie-soup-xstream kie-memory-compiler kie-soup-project-datamodel-commons kie-soup-commons kie-soup-project-datamodel-api</p> <p>---Dependency org.osgi.core org.osgi.compendium</p> <p>----Dependency commons-codec.commons-codec</p> <p>----- Notices Apache Commons Codec Copyright 2002-2020 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (https://www.apache.org/).</p> <p>src/test/org/apache/commons/codec/language/ DoubleMetaphoneTest.java contains test data from http://aspell.net/test/orig/batch0.tab. Copyright (C) 2002 Kevin Atkinson (kevin@gnu.org)</p> <p>----Dependency jakarta.enterprise.cdi-api</p> <p>-----Dependency commons-collections4</p> <p>-----Notice Apache Commons Collections Copyright 2001-2019 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/).</p> <p>-----Dependency commons-math3</p> <p>-----Notice Apache Commons Math Copyright 2001-2022 The Apache Software Foundation This product includes software developed at</p>

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Provider	Component (s)	Licensing Information
		<p>The following artifacts are EPL. * org.eclipse.jetty.orbit:org.eclipse.jdt.core</p> <p>The following artifacts are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message</p> <p>The following artifacts are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish</p> <p>-----</p> <p>Oracle The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html * javax.servlet:javax.servlet-api * javax.annotation:javax.annotation-api * javax.transaction:javax.transaction-api * javax.websocket:javax.websocket-api</p> <p>-----</p> <p>Oracle OpenJDK If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected. * java.sun.security.ssl</p> <p>These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html</p> <p>----- OW2</p> <p>The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html org.ow2.asm:asm-commons org.ow2.asm:asm</p> <p>-----</p> <p>Apache The following artifacts are ASL2 licensed. org.apache.taglibs:taglibs-standard-spec org.apache.taglibs:taglibs-standard-impl</p> <p>-----</p> <p>MortBay The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed. org.mortbay.jasper:apache-jsp org.apache.tomcat:tomcat-jasper org.apache.tomcat:tomcat-juli</p>

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Provider	Component (s)	Licensing Information
		<p>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. --- ch.qos.logback » logback-classic 1.2.3 COPYRIGHT and LICENSE: Logback LICENSE ----- Logback: the reliable, generic, fast and flexible logging framework. Copyright (C) 1999-2015, 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. LGPL v2.1 - See Appendix T ---- org.apache.httpcomponents » httpclient 4.5.5 COPYRIGHT: Copyright 1999-2018 The Apache Software Foundation LICENSE: Apache 2.0</p>

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Provider	Component (s)	Licensing Information
		<p>https://github.com/apache/httpcomponents-client/blob/4.5.5/LICENSE.txt</p> <p>---</p> <p>org.openjdk.jmh 1.19 No Copyright info LICENSE: GNU GPL v2.0</p> <p>https://github.com/infynyx/openjdk-jmh/blob/d5660790826189b3515083a270775f77a6378efc/jmh-core-it/LICENSE</p> <p>---</p> <p>net.sf.ehcache » ehcache 2.10.4 COPYRIGHT: (c) © Terracotta, Inc LICENSE: Apache 2.0 http://www.ehcache.org/about/license.html</p> <p>---</p> <p>apache httpasyncclient 4.1.3 COPYRIGHT: Copyright 2010-2017 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/httpasyncclient/blob/4.1.3/LICENSE.txt</p> <p>---</p> <p>org.jdbi » jdbi 2.38.1 org.jdbi » jdbi3-core 3.0.0-rc1 COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.38.1/LICENSE</p> <p>---</p> <p>org.apache.logging.log4j » log4j-api 2.10.0 org.apache.logging.log4j » log4j-core 2.10.0 COPYRIGHT: Copyright 1999-2017 Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/logging-log4j2/blob/master/LICENSE.txt NOTICE: Apache Log4j Copyright 1999-2017 Apache Software Foundation</p> <p>This product includes software developed at The Apache Software Foundation (http://www.apache.org/). ResolverUtil.java Copyright 2005-2006 Tim Fennell Dumbster SMTP test server Copyright 2004 Jason Paul Kitchen TypeUtil.java Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams picocli (http://picocli.info) Copyright 2017 Remko Popma</p> <p>---</p>

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		org.openjdk.jcstress jcstress-core 0.1.1 No copyright info LICENSE: Apache 2.0 https://github.com/jwoschitz/jcstress-examples/blob/master/LICENSE

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Alibaba	fastjson 1.2.73 fastjson 1.2.83	<p>Copyright 1999-2019 Alibaba Group Holding Ltd. 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. Apache License, version 2.0 - See Appendix E</p> <p>++++4th party dependencies++++ com.squareup.retrofit2, v2.5.0, Apache 2.0 /* * Copyright (C) 2015 Square, 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 * 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. */ ++++++++++++++++ com.squareup.okhttp3, v3.6.0, Apache 2.0 /* * Copyright (C) 2012 Square, 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</p>

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Provider	Component (s)	Licensing Information
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Eli Grey	file-saver 2.0.5	<p>https://github.com/eligrey/FileSaver.js/blob/master/LICENSE.md</p> <p>-----separator-----</p> <p>MIT License See Appendix G</p> <p>-----separator-----</p>

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

Provider	Component (s)	Licensing Information
The Pallets Team	Flask 2.0.2 Flask 2.2.3 Flask 2.3.2	<p>Top Level Component: Flask</p> <p>-----</p> <p>Top level Copyright:</p> <p>-----</p> <p>Copyright 2010 Pallets</p> <p>-----</p> <p>Top level component license: BSD-3-clause</p> <p>-----</p> <p>License Text:</p> <p>-----</p> <p>See Appendix M</p> <p>-----</p> <p>DEPENDENCIES</p> <p>-----</p> <p>1. click: Copyright 2014 Pallets 2. itsdangerous: Copyright 2011 Pallets 3. Jinja2: Copyright 2007 Pallets 4. MarkupSafe: Copyright 2010 Pallets 5. Werkzeug: Copyright 2007 Pallets</p> <p>All 5 dependencies using the same license as the top component: BSD-3-clause. See license text above.</p>
Mozilla	geckodriver 0.32.0	Mozilla Public License, version 2.0 - See Appendix R
Free Software Foundation	gnu tar 1.30-5	GNU GENERAL PUBLIC LICENSE 3.0 - See Appendix E

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Provider	Component (s)	Licensing Information
Google	Guava 31.1	<p>--- Guava 30.1.1 Copyright (C) 2020 The Guava 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. APACHE 2.0 - See Appendix E</p> <p>=====</p> <p>++++ 4th party: com.google.guava:listenablefuture Copyright (C) 2018 The Guava 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. < Apache License Version 2.0></p> <p>=====</p> <p>++++ 4th party: com.google.code.findbugs:jsr305 The JSR-305 reference implementation (lib/jsr305.jar) is distributed under the terms of the New BSD license: http://www.opensource.org/licenses/bsd-license.php See the JSR-305 home page for more information: http://code.google.com/p/jsr-305/ See Appendix M</p> <p>=====</p> <p>++++ 4th party: jcip-annotations Copyright (c) 2005, Brian Goetz and Tim Peierls See Appendix M</p> <p>=====</p> <p>++++ 4th party: com.google.errorprone:error_prone_annotations Copyright 2015 The Error Prone 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. < Apache License Version 2.0></p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
Benoît Chesneau	gunicorn 20.0.4	<p>Gunicorn 2009-2018 (c) Benoît Chesneau <benoitc@e-engura.org> 2009-2015 (c) Paul J. Davis <paul.joseph.davis@gmail.com> Gunicorn is released under the MIT license. See the LICENSE file for the complete license. gunicorn.logging_config ----- Copyright 2001-2005 by Vinay Sajip. All Rights Reserved. Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Vinay Sajip not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. gunicorn.debug ----- Based on eventlet.debug module under MIT license: Unless otherwise noted, the files in Eventlet are under the following MIT License See Appendix G gunicorn.reloaders ----- Based on greins.reloaders module under MIT license: 2010 (c) Meebo, Inc. MIT License See Appendix G doc/sitemap_gen.py -----</p>

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Provider	Component (s)	Licensing Information
		<p>Under BSD License :</p> <p>Copyright (c) 2004, 2005, Google Inc. All rights reserved. See Appendix M util/unlink.py</p> <p>-----</p> <p>backport from python3 Lib/test/support.py gunicorn/ selectors.py</p> <p>-----</p> <p>Copyright (c) 2001-2016 Python Software Foundation; All Rights Reserved PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2</p> <p>-----</p> <p>1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.</p> <p>2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001-2016 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.</p> <p>3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.</p> <p>4. PSF is making Python available to Licensee on an "AS IS" basis.</p>

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Benoît Chesneau	gunicorn 20.1.0	<p>NOTICE Gunicorn 2009-2018 (c) Benoît Chesneau 2009-2015 (c) Paul J. Davis Gunicorn is released under the MIT license. See the LICENSE file for the complete license. gunicorn.logging_config ----- Copyright 2001-2005 by Vinay Sajip. All Rights Reserved. Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Vinay Sajip not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. gunicorn.debug ----- Based on eventlet.debug module under MIT license: Unless otherwise noted, the files in Eventlet are under the following MIT license: Copyright (c) 2005-2006, Bob Ippolito Copyright (c) 2007-2010, Linden Research, Inc. Copyright (c) 2008-2010, Eventlet Contributors (see Eventlet AUTHORS)</p> <p>See Appendix G</p> <p>gunicorn.reloaders ----- Based on greins.reloaders module under MIT</p>

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hapijs	hapi 20.2.1	<p>Copyright (c) 2011-2020, Sideway Inc, and project contributors Copyright (c) 2011-2014, Walmart Copyright (c) 2011, Yahoo Inc. All rights reserved.</p> <p>See Appendix M</p> <p style="text-align: center;">*</p> <p>* * The complete list of contributors can be found at: https://github.com/hapijs/hapi/graphs/contributors Portions of this project were initially based on the Yahoo! Inc. Postmile project, published at https://github.com/yahoo/postmile.</p> <p>===== Below are 4th party dependencies ===== ++++++</p> <p>+++++ wreck, v17.0.0, BSD-style license Copyright (c) 2012-2017, Project contributors Copyright (c) 2012-2014, Walmart All rights reserved.</p> <p>See Appendix M</p> <p>+++++ topo, v5.0.0, BSD-style license Copyright (c) 2014-2016, Project contributors Copyright (c) 2014, Walmart All rights reserved.</p> <p>See Appendix M</p> <p>+++++ teamwork, v4.0.0, BSD-style license Copyright (c) 2015-2017, Eran Hammer and Project contributors All rights reserved.</p> <p>See Appendix M</p> <p>+++++ subtext, v7.0.3, BSD-style license statehood, v7.0.2, BSD-style license shot, v5.0.0, BSD-Style license mimos, v5.0.0, BSD-Style license call, v8.0.0, BSD-style license ammo, v5.0.1, BSD-style license Copyright (c) 2014-2017, Project contributors Copyright (c) 2014, Walmart All rights reserved.</p> <p>See Appendix M</p> <p>+++++ podium, v4.0.0, BSD-style license Copyright (c) 2016-2017, Project contributors All rights reserved.</p>

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Provider	Component (s)	Licensing Information
Willy Tarreau	HAproxy 2.3.10	<p>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 OpenSSL is allowed. The text of the licenses lies in the "doc" directory. All the files provided in this package are covered by the GPL unless expressly stated otherwise in them. Every patch or contribution provided by external people will by default comply with the license of the files it affects, or be rejected. Willy Tarreau - w@1wt.eu . . .</p> <p>----- (separator)----- GNU General Public License, Version 2 (GPL v2) - See Appendix A -----</p> <p>(separator)----- GNU General Public License, Version 2 (GPL-2.1) - See Appendix B -----</p> <p>(separator)----- . . . ----- Copyright notices ----- Copyright 2000-2010 Willy Tarreau Copyright (C) 2019 HAProxy Technologies, Christopher Faulet Copyright 2019 HAProxy Technologies, Frédéric Lécaille Copyright 2012 Excelsiance, David Du Colombier Copyright 2018 Joyent, Inc. Copyright 2014 Baptiste Assmann Copyright (C) 2020 HAProxy</p>

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Zaxxer.com	HikariCP 5.0.1	<p>Copyright (C) 2013, 2019 Brett Wooldridge APACHE 2.0 - See Appendix E</p> <p>Below 4th party dependency ----- SLF4j 1.7.25, MIT license</p> <p>SLF4J source code and binaries are distributed under the MIT license. Copyright (c) 2004-2019 QOS.ch All rights reserved. MIT - See Appendix G</p>

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Provider	Component (s)	Licensing Information
The Apache Software Foundation	HttpAsyncClient 4.1.4	<p>Apache Httpasyncclient 4.1.4 Apache HttpComponents AsyncClient Copyright 2010-2017 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). LICENSE: Apache 2.0</p> <p>APACHE 2.0 - See Appendix E</p> <p>4P Dependencies: ===== This project contains annotations derived from JCIP-ANNOTATIONS NOTICE FILE: Copyright (c) 2005, Brian Goetz and Tim Peierls</p> <p>See Appendix M</p> <p>POM FILE: commons-logging 1.2 Apache Commons Logging Copyright 2003-2016 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). --- org.apache.httpcomponents » httpcore 4.4.10 Apache HttpComponents Core Copyright 2005-2018 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). --- org.apache.httpcomponents » httpcore-nio 4.4.10 Apache HttpComponents Core Copyright 2005-2018 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). --- org.apache.httpcomponents » httpClient 4.5.6 Apache HttpComponents Client Copyright 1999-2018 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). --- commons-codec 1.1.0 Apache Commons Codec Copyright 2002-2014 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains</p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
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		----- -----
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FasterXML, LLC	jackson-dataformat-yaml 2.11.2	<p>Dependency: com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:2.11.2 License: Apache 2.0</p> <p>-----</p> <p>NOTICE FILE</p> <p># JACKSON JSON PROCESSOR</p> <p>Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.</p> <p># LICENSING</p> <p>Jackson core and extension components may 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).</p> <p># CREDITS</p> <p>A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.</p> <p>-----</p> <p>APACHE 2.0 - See Appendix E</p> <p>FOURTH-PARTY DEPENDENCY</p> <p>-----</p> <p>Dependency: com.fasterxml.jackson.core:jackson-databind:jar:2.11.2 LICENSE: Apache 2.0</p> <p>-----</p> <p>Dependency: com.fasterxml.jackson.core:jackson-core:jar:2.11.2 LICENSE: Apache 2.0</p> <p>-----</p> <p>Dependency: org.yaml:snakeyaml:jar:1.26 LICENSE: Apache 2.0</p> <p>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</p> <p>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</p>

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FasterXML, LLC	jackson-datatype-joda 2.9.6	<p>APACHE 2.0 - See Appendix E</p> <p>Below are 4th party dependencies:</p> <p>jackson-annotations 2.9.0, Apache 2.0</p> <p>jackson-core 2.9.6, Apache 2.0</p> <p>jackson-databind 2.9.6, Apache 2.0</p> <p>Above 3 softwares don't have copyright info in the source code, just license info of Apache 2.0</p> <p>joda-time 2.7, Apache 2.0</p> <p>NOTICE file corresponding to section 4d of the Apache License Version 2.0</p> <p>This product includes software developed by Joda.org (http://www.joda.org/).</p>
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Table 3-1 (Cont.) Oracle Communications Cloud Native Core, Licensing Information

Provider	Component (s)	Licensing Information
Jenkins CI	Jenkins active choices plug 2.5.7 Jenkins active choices plug 2.6.4	<p>The MIT License (MIT) Copyright (c) 2014-2020 Ioannis K. Moutsatsos, Bruno P. Kinoshita See Appendix G</p> <p>----- script-security(https://plugins.jenkins.io/script-security/#releases) -----</p> <p>The MIT License (MIT) Copyright (c) 2011-2016 Dominik Bartholdi See Appendix G</p> <p>----- OWASP Markup Formatter(https://plugins.jenkins.io/antisamy-markup-formatter/#releases) -----</p> <p>The MIT License (MIT) Copyright (c) 2011-2016 Dominik Bartholdi See Appendix G</p> <p>----- The following dependency list the following license in the pom.xml only -----</p> <p>JQuery3 API Plugin MIT License Copyright (c) 2019 Dr. Ullrich Hafner See Appendix G</p>

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Provider	Component (s)	Licensing Information
Oracle	jersey-core 2.31	<p>****DEVELOPMENT MUST INSERT THE INFORMATION IN THE SECTIONS BELOW*****</p> <p>The documentation team must include the following in the documentation accompanying the Oracle product that includes the EPL code:</p> <ol style="list-style-type: none"> 1. The follow files are available in source code form under the Eclipse Public License at: {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}. (The EPL license is reproduced below). 2. All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose. In addition, such Contributors are not liable for any damages, including direct, indirect, special, incidental and consequential damages, such as lost profits. 3. Any provisions of the Oracle license agreement that differ from the Eclipse Public License are offered by Oracle alone and not by any other party. 4. { IF THERE ARE MODIFICATIONS OR ADDITIONS, INSERT THE FOLLOWING} Oracle has modified the following files {LIST FILES} 5. { IF EXECUTABLES ARE UNDER ORACLE AGREEMENT AS OPPOSED TO THE EPL, INSERT THE FOLLOWING} These files are licensed in executable form under your Oracle license agreement. Oracle is solely responsible for any representations and warranties contained therein. <p>Copyright (c) 2010, 2020 Oracle and/or its affiliates. All rights reserved</p> <p>This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at https://www.gnu.org/software/classpath/license.html.</p> <p>Oracle elects the EPL 2.0 license. Eclipse Public License - v 2.0 - See Appendix Y GPL v2 - See Appendix A</p> <p>----- Fourth Party Dependencies</p>

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Provider	Component (s)	Licensing Information
		<p>+++++4th party dependencies+++++</p> <p>jakarta.ws.rs-api, v2.1.6, EPL 2.0+ GPLv2.0 CPE jakarta.annotation-api, v1.3.5 , EPL 2.0+ GPLv2.0 CPE Copyright (c) 2017, 2020 Oracle and/or its affiliates. All rights reserved.</p> <p>This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0, which is available at http://www.eclipse.org/legal/epl-2.0.</p> <p>This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception, which is available at https://www.gnu.org/software/classpath/license.html.</p> <p>+++++</p> <p>jakarta.inject, v2.6.1 , Apache 2.0 Copyright (C) 2009 The JSR-330 Expert Group Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.</p> <p>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.</p> <p>+++++</p> <p>org.osgi.core, v6.0.0, Apache 2.0 Copyright (c) OSGi Alliance (2000, 2013). All Rights Reserved.</p> <p>Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.</p> <p>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.</p> <p>-----</p>

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

Provider	Component (s)	Licensing Information
Eclipse Foundation	Jetty 9.4.40.v20210413 Jetty 9.4.43.V20210629	<p>TOP-LEVEL LICENSE TEXT Jetty 9.4.40.v20210413</p> <p>This program and the accompanying materials are made available under the terms of the Eclipse Public License 1.0 which is available at https://www.eclipse.org/org/documents/epl-1.0/EPL-1.0.txt or the Apache Software License 2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0</p> <p>Oracle elects the Apache 2.0 license For Apache License, see Appendix E</p> <p>-----separator-----</p> <p>TOP-LEVEL NOTICE TEXT</p> <p>Notice.txt</p> <p>Notices for Eclipse Jetty</p> <p>=====</p> <p>This content is produced and maintained by the Eclipse Jetty project.</p> <p>Project home: https://www.eclipse.org/jetty/</p> <p>Trademarks</p> <p>-----</p> <p>Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.</p> <p>Copyright</p> <p>-----</p> <p>All contributions are the property of the respective authors or of entities to which copyright has been assigned by the authors (eg. employer).</p> <p>Declared Project Licenses</p> <p>-----</p> <p>This artifacts of this project are made available under the terms of:</p> <p>* the Eclipse Public License v. 1.0 http://www.eclipse.org/legal/epl-v10.html SPDX-License-Identifier: EPL-1.0</p> <p>or</p> <p>* the Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0. SPDX-License-Identifier: Apache-2.0</p> <p>The following dependencies are EPL.</p> <p>* org.eclipse.jetty.orbit:org.eclipse.jdt.core</p> <p>The following dependencies are EPL and ASL2.</p> <p>* org.eclipse.jetty.orbit:javafx.security.auth.message</p> <p>The following dependencies are EPL and CDDL 1.0.</p> <p>* org.eclipse.jetty.orbit:javafx.mail.glassfish</p> <p>If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the</p>

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

Provider	Component (s)	Licensing Information
		<p>distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.</p> <p>http://openjdk.java.net/legal/gplv2+ce.html * java.sun.security.ssl</p> <p>The following dependencies are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html</p> <ul style="list-style-type: none"> * org.ow2.asm:asm-commons * org.ow2.asm:asm <p>The following dependencies are ASL2 licensed.</p> <ul style="list-style-type: none"> * org.apache.taglibs:taglibs-standard-spec * org.apache.taglibs:taglibs-standard-impl <p>The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.</p> <ul style="list-style-type: none"> * org.mortbay.jasper:apache-jsp * org.apache.tomcat:tomcat-jasper * org.apache.tomcat:tomcat-juli * org.apache.tomcat:tomcat-jsp-api * org.apache.tomcat:tomcat-el-api * org.apache.tomcat:tomcat-jasper-el * org.apache.tomcat:tomcat-api * org.apache.tomcat:tomcat-util-scan * org.apache.tomcat:tomcat-util * org.mortbay.jasper:apache-el * org.apache.tomcat:tomcat-jasper-el * org.apache.tomcat:tomcat-el-api <p>The following artifacts are CDDL + GPLv2 with classpath exception.</p> <p>https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html * org.eclipse.jetty.toolchain:jetty-schemas</p> <p>Cryptography -----</p> <p>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.</p> <p>The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password</p>

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

Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<pre> EPL FOURTH-PARTY DEPENDENCY #6 org.eclipse.jetty:jetty-alpn-client:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #7 org.eclipse.jetty.http2:http2-client:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #8 org.eclipse.jetty.http2:http2-common:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #9 org.eclipse.jetty.http2:http2-hpack:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #10 org.eclipse.jetty:jetty-alpn-java- client:11.0.11 -- Apache , EPL Copyright and license same as TEXT mentioned under TOP-LEVEL License Text -----separator----- FOURTH-PARTY DEPENDENCY #11 org.slf4j:slf4j- api:2.0.0-alpha5 -> 1.7.36 -- MIT Copyright (c) 2004-2017 QOS.ch </pre> <p>See Appendix G</p>

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 1.1.10 Jetty ReactiveStream HttpClient 1.1.12	<p>TOP-LEVEL LICENSE TEXT for org.eclipse.jetty:jetty-reactive-httpclient:1.1.10 For Apache License, see Appendix E</p> <p>FOURTH-PARTY DEPENDENCY #1 org.reactivestreams:reactive-streams 1.0.3</p> <p>COPYRIGHT NOTICES</p> <p>/</p> <p>***** *****</p> <p>* Licensed under Public Domain (CC0) * * *</p> <p>* To the extent possible under law, the person who associated CC0 with * * this code has waived all copyright and related or neighboring * * rights to this code. * * *</p> <p>* You should have received a copy of the CC0 legalcode along with this * * work. If not, see . * ***** *****/</p> <p>FOURTH-PARTY DEPENDENCY #1 LICENSE No Copyright</p> <p>The person who associated a work with this deed has dedicated the work to the public domain by waiving all of his or her rights to the work worldwide under copyright law, including all related and neighboring rights, to the extent allowed by law.</p> <p>You can copy, modify, distribute and perform the work, even for commercial purposes, all without asking permission. See Other Information below.</p> <p>This license is acceptable for Free Cultural Works.</p> <p>Other Information</p> <p>In no way are the patent or trademark rights of any person affected by CC0, nor are the rights that other persons may have in the work or in how the work is used, such as publicity or privacy rights.</p> <p>Unless expressly stated otherwise, the person who associated a work with this deed makes no warranties about the work, and disclaims liability for all uses of the work, to the fullest extent permitted by applicable law. When using or citing the work, you should not imply endorsement by the author or the affirmer.</p> <p>-----seperator-----</p> <p>FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.40.v20210413</p>

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

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 1.1.9	<p>TOP-LEVEL LICENSE TEXT for org.eclipse.jetty:jetty-reactive-httpclient:1.1.9 For Apache License, see Appendix E</p> <p>FOURTH-PARTY DEPENDENCY #1 org.reactivestreams:reactive-streams 1.0.3</p> <p>COPYRIGHT NOTICES</p> <p>/</p> <p>***** *****</p> <p>* Licensed under Public Domain (CC0) * * *</p> <p>* To the extent possible under law, the person who associated CC0 with * * this code has waived all copyright and related or neighboring * * rights to this code. * * *</p> <p>* You should have received a copy of the CC0 legalcode along with this * * work. If not, see . * ***** *****/</p> <p>FOURTH-PARTY DEPENDENCY #1 LICENSE No Copyright</p> <p>The person who associated a work with this deed has dedicated the work to the public domain by waiving all of his or her rights to the work worldwide under copyright law, including all related and neighboring rights, to the extent allowed by law.</p> <p>You can copy, modify, distribute and perform the work, even for commercial purposes, all without asking permission. See Other Information below.</p> <p>This license is acceptable for Free Cultural Works.</p> <p>Other Information</p> <p>In no way are the patent or trademark rights of any person affected by CC0, nor are the rights that other persons may have in the work or in how the work is used, such as publicity or privacy rights.</p> <p>Unless expressly stated otherwise, the person who associated a work with this deed makes no warranties about the work, and disclaims liability for all uses of the work, to the fullest extent permitted by applicable law. When using or citing the work, you should not imply endorsement by the author or the affirmer.</p> <p>-----seperator-----</p> <p>FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.40.v20210413</p>

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

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

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

Provider	Component (s)	Licensing Information
		<p>ASM is released under the following 3-Clause BSD License:</p> <p>ASM: a very small and fast Java bytecode manipulation framework Copyright (c) 2000-2011 INRIA, France Telecom All rights reserved.</p> <p>See Appendix M</p> <p>Apache</p> <p>The following artifacts are ASL2 licensed.</p> <p>org.apache.taglibs:taglibs-standard-spec org.apache.taglibs:taglibs-standard-impl</p> <p>-----</p> <p>MortBay</p> <p>The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.</p> <p>org.mortbay.jasper:apache-jsp 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</p> <p>org.mortbay.jasper:apache-el org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-el-api</p> <p>-----</p> <p>Assorted</p> <p>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.</p> <p>-----separator-----</p> <p>org.slf4j:slf4j-api</p> <p>The MIT License (MIT) Copyright (c) 2004-2017 QOS.ch MIT License, refer Appendix G</p> <p>-----separator-----</p>

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

Provider	Component (s)	Licensing Information
		APACHE 2.0 - See Appendix E EPL License 1.0, refer Appendix J

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

Provider	Component (s)	Licensing Information
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		<p>Jetty may be distributed under either license. Oracle elects the Apache 2.0 license.</p> <p>Text available in above links are represented below.</p> <p>-----</p> <p>Eclipse</p> <p>The following artifacts are EPL.</p> <p>* org.eclipse.jetty.orbit:org.eclipse.jdt.core</p> <p>The following artifacts are EPL and ASL2.</p> <p>* org.eclipse.jetty.orbit:javax.security.auth.message</p> <p>-----</p> <p>OW2</p> <p>The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html</p> <p>org.ow2.asm:asm-commons</p> <p>org.ow2.asm:asm</p> <p>ASM is released under the following 3-Clause BSD License:</p> <p>ASM: a very small and fast Java bytecode manipulation framework</p> <p>Copyright (c) 2000-2011 INRIA, France Telecom</p> <p>All rights reserved.</p> <p>See Appendix M</p> <p>-----</p> <p>Apache</p> <p>The following artifacts are ASL2 licensed.</p> <p>org.apache.taglibs:taglibs-standard-spec</p> <p>org.apache.taglibs:taglibs-standard-impl</p> <p>-----</p> <p>MortBay</p> <p>The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.</p> <p>org.mortbay.jasper:apache-jsp</p> <p>org.apache.tomcat:tomcat-jasper</p> <p>org.apache.tomcat:tomcat-juli</p> <p>org.apache.tomcat:tomcat-jsp-api</p> <p>org.apache.tomcat:tomcat-el-api</p> <p>org.apache.tomcat:tomcat-jasper-el</p> <p>org.apache.tomcat:tomcat-api</p>

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

Provider	Component (s)	Licensing Information
		<p>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 ----- 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. ----- Eclipse Public License - v 1.0 APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #3 org.slf4j:slf4j-api 1.7.32 COMMON COPYRIGHT NOTICES and LICENSE TEXT MIT License See Appendix G -----separator-----</p>

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Jetty	Jetty ReactiveStream HttpClient 3.0.6	<p>TOP-LEVEL COPYRIGHT NOTICE for org.eclipse.jetty:jetty-reactive-httpclient:3.0.4</p> <pre> /* * * 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. */ -----separator----- TOP-LEVEL LICENSE TEXT for org.eclipse.jetty:jetty- reactive-httpclient:3.0.4 APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.reactivestreams:reactive-streams 1.0.3 COPYRIGHT NOTICES / ***** ***** * Licensed under Public Domain (CC0) * * * * To the extent possible under law, the person who associated CC0 with * * this code has waived all copyright and related or neighboring * * rights to this code. * * * * You should have received a copy of the CC0 legalcode along with this * * work. If not, see <http://creativecommons.org/ publicdomain/zero/1.0/>.* </pre>

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Provider	Component (s)	Licensing Information
		<p>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 ----- 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. ----- Eclipse Public License - v 1.0 See Appendix J ----- Apache License, Version 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #3 org.slf4j:slf4j-api 1.7.30 COMMON COPYRIGHT NOTICES and LICENSE TEXT MIT License See Appendix G -----separator-----</p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<p>----- ----- ----- JSON in Java (org.json:json) Copyright (c) 2002 JSON.org LICENSE: The JSON License See Appendix G</p> <p>----- ----- bcprov-jdk15on (org.bouncycastle.bcprov-jdk15on) Copyright (c) 2000 - 2020 The Legion of the Bouncy Castle Inc. LICENSE: Bouncy Castle License See Appendix G</p>
Joda.org	joda-time 2.10.10	<p>APACHE 2.0 - See Appendix E Top Level Component : joda-time Top Level Component License : Apache 2.0 Top Level Component Copyright : Copyright Copyright 2001-2017 Stephen Colebourne</p>

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JSON.org	JSON in Java 20220320	https://github.com/stleary/JSON-java/blob/master/LICENSE ----- ----- Copyright (c) 2002 JSON.org See Appendix G
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Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Oracle Communications Cloud Native Core, Licensing Information

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		<p>profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.</p> <p>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.</p> <table border="1"> <thead> <tr> <th>Release Owner</th> <th>Derived GPL-</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>0.9.0 thru 1.2</td> <td></td> <td>1991-1995</td> </tr> <tr> <td>CWI</td> <td>yes</td> <td></td> </tr> <tr> <td>1.3 thru 1.5.2</td> <td>1.2</td> <td>1995-1999</td> </tr> <tr> <td>CNRI</td> <td>yes</td> <td></td> </tr> <tr> <td>1.6</td> <td>1.5.2</td> <td>2000</td> </tr> <tr> <td>CNRI</td> <td>no</td> <td></td> </tr> <tr> <td>2.0</td> <td>1.6</td> <td>2000</td> </tr> <tr> <td>BeOpen.com</td> <td>no</td> <td></td> </tr> <tr> <td>1.6.1</td> <td>1.6</td> <td>2001</td> </tr> <tr> <td>CNRI</td> <td>yes (2)</td> <td></td> </tr> <tr> <td>2.1</td> <td>2.0+1.6.1</td> <td>2001</td> </tr> <tr> <td>PSF</td> <td>no</td> <td></td> </tr> <tr> <td>2.0.1</td> <td>2.0+1.6.1</td> <td>2001</td> </tr> <tr> <td>PSF</td> <td>yes</td> <td></td> </tr> <tr> <td>2.1.1</td> <td>2.1+2.0.1</td> <td>2001</td> </tr> <tr> <td>PSF</td> <td>yes</td> <td></td> </tr> <tr> <td>2.1.2</td> <td>2.1.1</td> <td>2002</td> </tr> <tr> <td>PSF</td> <td>yes</td> <td></td> </tr> <tr> <td>2.1.3</td> <td>2.1.2</td> <td>2002</td> </tr> <tr> <td>PSF</td> <td>yes</td> <td></td> </tr> <tr> <td>2.2 and above</td> <td>2.1.1</td> <td>2001-now</td> </tr> <tr> <td>PSF</td> <td>yes</td> <td></td> </tr> </tbody> </table> <p>Footnotes:</p> <p>(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the</p>	Release Owner	Derived GPL-	Year	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		1.6.1	1.6	2001	CNRI	yes (2)		2.1	2.0+1.6.1	2001	PSF	no		2.0.1	2.0+1.6.1	2001	PSF	yes		2.1.1	2.1+2.0.1	2001	PSF	yes		2.1.2	2.1.1	2002	PSF	yes		2.1.3	2.1.2	2002	PSF	yes		2.2 and above	2.1.1	2001-now	PSF	yes	
Release Owner	Derived GPL-	Year																																																																					
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JWCArypto Contributors	jwtcrypto 1.0 jwtcrypto 1.4.2	jwtcrypto Release 1.0 COPYRIGHT: 2016-2018, JWCArypto Contributors LICENSE: GNU LESSER GENERAL PUBLIC LICENSE Version 3, 29 June 2007 See Appendix C

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Provider	Component (s)	Licensing Information
		<pre> org.apache.maven:maven-model:jar:3.5.4 org.apache.maven:maven-model-builder:jar:3.5.4 org.apache.maven:maven-plugin-api:jar:3.3.9 org.apache.maven:maven-repository-metadata:jar:3.5.4 org.apache.maven:maven-settings:jar:3.3.9 org.apache.maven:maven-settings-builder:jar:3.3.9 org.apache.maven:maven-builder-support:jar:3.5.4 org.apache.commons:commons-lang3:jar:3.9 org.apache.commons:commons-compress:jar:1.18 org.apache.httpcomponents:httpclient:jar:4.5.11 org.apache.httpcomponents:httpcore:jar:4.4.13 org.freemarker:freemarker:jar:2.3.29 commons-lang:commons-lang:jar:2.6 commons-logging:commons-logging:jar:1.2 commons-codec:commons-codec:jar:1.6 commons-io:commons-io:jar:2.6 <!-- ===== ===== Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. ===== ===== This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http:// www.apache.org />. --> -- com.google.guava:guava:jar:25.0-jre com.google.code.findbugs:jsr305:jar:1.3.9 com.google.errorprone:error_prone_annotations:jar:2.1. 3 </pre>

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		See Appendix M

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

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

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Provider	Component (s)	Licensing Information
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Opentracing.io	OpenTracing API for Java 0.33.0	<p>opentracing-util: 0.33.0, Apache 2.0 opentracing-mock: 0.33.0, Apache 2.0 opentracing-api: 0.33.0, Apache 2.0 opentracing-noop: 0.33.0, Apache 2.0 Copyright 2016-2019 The OpenTracing Authors ----- APACHE 2.0 - See Appendix E</p>

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opentracing-contrib	OpenTracing Spring Jaeger Starter 3.1.1	<p>APACHE 2.0 - See Appendix E Below are 4th party dependencies.</p> <p>+++++</p> <p>jaeger-core, v0.27.0, Apache 2.0 No copyright nor notice.txt in the source code, but only license text which is pure Apache 2.0 license text.</p> <p>+++++</p> <p>opentracing-api, v0.31.0, Apache 2.0 No copyright nor notice.txt in the source code, but only license text which is pure Apache 2.0 license text.</p> <p>+++++</p> <p>opentracing-spring-tracer-configuration-starter, v0.1.0, Apache 2.0 No copyright nor notice.txt in the source code, but only license text which is pure Apache 2.0 license text.</p> <p>+++++</p> <p>spring-boot-autoconfigure (optional), v1.5.12.RELEASE, Apache 2.0 No copyright nor notice.txt in the source code, but only license text which is pure Apache 2.0 license text.</p> <p>+++++</p> <p>spring-boot-configuration-processor (optional), v1.5.12.RELEASE, Apache 2.0 No copyright nor notice.txt in the source code, but only license text which is pure Apache 2.0 license text.</p>

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

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

Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #6 com.google.code.gson:gson:2.8.5</p> <p>FOURTH-PARTY DEPENDENCY #7 com.google.errorprone:error_prone_annotations:2.3.2</p> <p>FOURTH-PARTY DEPENDENCY #8 com.google.guava:failureaccess:1.0.1</p> <p>FOURTH-PARTY DEPENDENCY #9 com.google.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava</p> <p>FOURTH-PARTY DEPENDENCY #10 com.google.guava:guava:28.1-jre</p> <p>FOURTH-PARTY DEPENDENCY #11 com.google.j2objc:j2objc-annotations:1.3</p> <p>FOURTH-PARTY DEPENDENCY #15 commons-collections:commons-collections:3.2.2</p> <p>FOURTH-PARTY DEPENDENCY #16 commons-io:commons-io:2.6</p> <p>FOURTH-PARTY DEPENDENCY #17 commons-logging:commons-logging:1.2</p> <p>FOURTH-PARTY DEPENDENCY #18 com.sun.activation:jakarta.activation:1.2.1</p> <p>FOURTH-PARTY DEPENDENCY #20 javax.inject:javax.inject:1</p> <p>FOURTH-PARTY DEPENDENCY #21 javax.ws.rs:javax.ws.rs-api:2.0.1</p> <p>FOURTH-PARTY DEPENDENCY #22 joda-time:joda-time:2.10.3</p> <p>FOURTH-PARTY DEPENDENCY #23 org.apache.commons:commons-compress:1.19</p> <p>FOURTH-PARTY DEPENDENCY #24 org.apache.commons:commons-jcs-core:2.2.1</p> <p>FOURTH-PARTY DEPENDENCY #25 org.apache.commons:commons-lang3:3.8.1</p> <p>FOURTH-PARTY DEPENDENCY #26 org.apache.commons:commons-text:1.8</p> <p>FOURTH-PARTY DEPENDENCY #27 org.apache.commons:commons-lang3:3.8.1</p> <p>FOURTH-PARTY DEPENDENCY #28 org.apache.lucene:lucene-analyzers-common:8.3.0</p> <p>FOURTH-PARTY DEPENDENCY #29 org.apache.lucene:lucene-core:8.3.0</p> <p>FOURTH-PARTY DEPENDENCY #30 org.apache.lucene:lucene-queries:8.3.0</p> <p>FOURTH-PARTY DEPENDENCY #31 org.apache.lucene:lucene-queryparser:8.3.0</p> <p>FOURTH-PARTY DEPENDENCY #32 org.apache.lucene:lucene-sandbox:8.3.0</p> <p>FOURTH-PARTY DEPENDENCY #36 org.owasp:dependency-check-core:5.2.4</p>

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Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #37 org.owasp:dependency-check-utils:5.2.4</p> <p>FOURTH-PARTY DEPENDENCY #38 org.owasp:dependency-check-gradle:5.2.4</p> <p>FOURTH-PARTY DEPENDENCY #41 org.sonatype.goodies:package-url-java:1.0.1</p> <p>FOURTH-PARTY DEPENDENCY #42 org.sonatype.ossindex:ossindex-service-api:1.2.0</p> <p>FOURTH-PARTY DEPENDENCY #43 org.sonatype.ossindex:ossindex-service-client:1.2.0</p> <p>FOURTH-PARTY DEPENDENCY #44 us.springett:cpe-parser:2.0.1</p> <p>Common License Apache License - See Appendix E</p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<p>Python datetime module. Copyright (c) 2003-2011 - Gustavo Niemeyer Copyright (c) 2012-2014 - Tomi Pieviläinen Copyright (c) 2014-2016 - Yaron de Leeuw Copyright (c) 2015- - Paul Ganssle Copyright (c) 2015- - dateutil contributors (see AUTHORS file) All rights reserved.</p> <p>See Appendix M</p> <p>The above BSD License Applies to all code, even that also covered by Apache 2.0. ----- -----</p>

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

Provider	Component (s)	Licensing Information
Open Source	pandas 1.0.4	<p>Website: https://pandas.pydata.org/ License: https://github.com/pandas-dev/pandas/blob/master/LICENSE</p> <p>BSD 3-Clause License</p> <p>Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc. and PyData Development Team All rights reserved.</p> <p>Copyright (c) 2011-2020, Open source contributors.</p> <p>See Appendix M</p> <p>4p Dependency: python-dateutil Version: 2.8.1 Website: https://github.com/dateutil/dateutil License: https://github.com/dateutil/dateutil/blob/master/LICENSE</p> <p>Copyright 2017- Paul Ganssle Copyright 2017- dateutil contributors (see AUTHORS file)</p> <p>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</p> <p>http://www.apache.org/licenses/LICENSE-2.0</p> <p>Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>The above license applies to all contributions after 2017-12-01, as well as all contributions that have been re-licensed (see AUTHORS file for the list of contributors who have re-licensed their code).</p> <p>----- -----</p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<p>M Farkas-Dyck (Strake) Michael Forney Nicholas J. Kain orc Pascal Cuoq Pierre Carrier Rich Felker Richard Pennington sin Solar Designer Stefan Kristiansson Szabolcs Nagy Timo Teräs Valentin Ochs William Haddon</p> <p>Portions of this software are derived from third-party works licensed under terms compatible with the above MIT license:</p> <p>The TRE regular expression implementation (src/regex/reg* and src/regex/tre*) is Copyright © 2001-2008 Ville Laurikari and licensed under a 2-clause BSD license (license text in the source files). The included version has been heavily modified by Rich Felker in 2012, in the interests of size, simplicity, and namespace cleanliness.</p> <p>Much of the math library code (src/math/* and src/complex/*) is Copyright © 1993,2004 Sun Microsystems or Copyright © 2003-2011 David Schultz or Copyright © 2003-2009 Steven G. Kargl or Copyright © 2003-2009 Bruce D. Evans or Copyright © 2008 Stephen L. Moshier and labelled as such in comments in the individual source files. All have been licensed under extremely permissive terms.</p> <p>The ARM memcpy code (src/string/armel/memcpy.s) is Copyright © 2008 The Android Open Source Project and is licensed under a two-clause BSD license. It was taken from Bionic libc, used on Android.</p> <p>The implementation of DES for crypt (src/misc/crypt_des.c) is Copyright © 1994 David Burren. It is licensed</p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
CloudBees, Inc.	Pipeline Plugin 590.v6a_d052e5a_a_b_5	<p>Pipeline plugin, 2.6 ~ The MIT License ~ ~ Copyright (c) 2013-2014, CloudBees, Inc. ~ MIT License See Appendix G</p> <p>-----</p> <p>Pipeline: API (workflow-api) v2.47 MIT License Copyright (c) 2013-2021 CloudBees, Inc. MIT License See Appendix G</p> <p>workflow-job-plugin, 2.42(Pipeline: Job) ~ The MIT License ~ ~ Copyright (c) 2013-2014, CloudBees, Inc. ~ MIT License See Appendix G</p> <p>workflow-basic-steps-plugin 2.24 (Pipeline: Basic Steps) ~ The MIT License ~ ~ Copyright (c) 2013-2014, CloudBees, Inc. ~ MIT License See Appendix G</p> <p>workflow-cps 2.94 (Pipeline: Groovy) ~ The MIT License ~ ~ Copyright (c) 2013-2014, CloudBees, Inc. ~ MIT License See Appendix G</p> <p>workflow-durable-task-step 2.40 (Pipeline: Nodes and Processes) ~ The MIT License ~ ~ Copyright (c) 2013-2014, CloudBees, Inc. ~ MIT License See Appendix G</p> <p>workflow-scm-step 2.13 (Pipeline: SCM Step) * The MIT License * * Copyright 2015 Jesse Glick. * MIT License See Appendix G */</p>

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Kirill Simonov	pyyaml 6	<p>Copyright (c) 2017-2021 Ingy döt Net Copyright (c) 2006-2016 Kirill Simonov</p> <p>License name: MIT</p> <p>See Appendix G</p>

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Selenium	Selenium - Python 4.2.0	APACHE 2.0 - See Appendix E
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Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #11 org.springframework:spring-core:5.2.3.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-expression:5.2.3.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-web:5.2.3.RELEASE</p> <p>COMMON COPY RIGHT TEXT</p> <p>© 2020 VMware, Inc. or its affiliates. Terms of Use • Privacy • Trademark Guidelines</p> <p>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.</p> <p>COMMON LICENSE NOTICES</p> <p>Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT</p> <p>-----separator-----</p> <p>FOURTH-PARTY DEPENDENCY #14 com.nimbusds:oauth2-oidc-sdk:6.14</p> <p>FOURTH-PARTY DEPENDENCY #15 com.nimbusds:lang-tag:1.4.4</p> <p>FOURTH-PARTY DEPENDENCY #16 com.nimbusds:nimbus-jose-jwt:7.8</p> <p>© 2020 Connect2id Ltd. EU VAT ID BG202911783</p> <p>COMMON LICENSE NOTICES</p> <p>Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT</p>

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

Provider	Component (s)	Licensing Information
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Pivotal, Inc.	spring-security-web 5.7.5	APACHE 2.0 - See Appendix E

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		<p>4TH PARTY DEPENDENCY #05-jakarta.xml.bind:jakarta.xml.bind-api</p> <p>4TH PARTY DEPENDENCY #06-jakarta.activation:jakarta.activation-api</p> <p>4TH PARTY DEPENDENCY #07-org.assertj:assertj-core</p> <p>4TH PARTY DEPENDENCY #08-org.hamcrest:hamcrest</p> <p>4TH PARTY DEPENDENCY #09-org.junit.jupiter:junit-jupiter</p> <p>4TH PARTY DEPENDENCY #10-org.junit.jupiter:junit-jupiter-engine</p> <p>4TH PARTY DEPENDENCY #11-org.junit.platform:junit-platform-engine</p> <p>4TH PARTY DEPENDENCY #12-org.mockito:mockito-core</p> <p>4TH PARTY DEPENDENCY #13-org.mockito:mockito-junit-jupiter</p> <p>4TH PARTY DEPENDENCY #14-net.bytebuddy:byte-buddy</p> <p>4TH PARTY DEPENDENCY #15-net.bytebuddy:byte-buddy-agent</p> <p>4TH PARTY DEPENDENCY #16-org.objenesis:objenesis</p> <p>4TH PARTY DEPENDENCY #17-org.skyscreamer:jsonassert</p> <p>4TH PARTY DEPENDENCY #18-com.vaadin.external.google:android-json</p> <p>4TH PARTY DEPENDENCY #19-org.xmlunit:xmlunit-core</p> <p>4TH PARTY DEPENDENCY #20-org.springframework:spring-core</p> <p>4TH PARTY DEPENDENCY #21-org.springframework.boot:spring-boot-starter</p> <p>4TH PARTY DEPENDENCY #22-org.springframework.boot:spring-boot:</p> <p>4TH PARTY DEPENDENCY #23-org.springframework:spring-context:</p> <p>4TH PARTY DEPENDENCY #24-org.springframework:spring-aop:</p> <p>4TH PARTY DEPENDENCY #25-org.springframework:spring-beans:</p> <p>4TH PARTY DEPENDENCY #26-org.springframework:spring-expression:</p> <p>4TH PARTY DEPENDENCY #27-org.springframework.boot:spring-boot-autoconfigure:</p> <p>4TH PARTY DEPENDENCY #28-org.springframework.boot:spring-boot-starter-logging:</p>

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		<p>4TH PARTY DEPENDENCY #29- ch.qos.logback:logback-classic: 4TH PARTY DEPENDENCY #30- ch.qos.logback:logback-core: 4TH PARTY DEPENDENCY #31- org.apache.logging.log4j:log4j-to-slf4j: 4TH PARTY DEPENDENCY #32- org.apache.logging.log4j:log4j-api: 4TH PARTY DEPENDENCY #33-org.slf4j:jul-to-slf4j: 4TH PARTY DEPENDENCY #34- jakarta.annotation:jakarta.annotation-api 4TH PARTY DEPENDENCY #35-org.yaml:snakeyaml: 4TH PARTY DEPENDENCY #36-net.minidev:json-smart: 4TH PARTY DEPENDENCY #37- net.minidev:accessors-smart: 4TH PARTY DEPENDENCY #38-org.ow2.asm:asm: 4TH PARTY DEPENDENCY #39-org.slf4j:slf4j-api: 4TH PARTY DEPENDENCY #40-org.junit.jupiter:junit-jupiter-api: 4TH PARTY DEPENDENCY #41- org.opentest4j:opentest4j: 4TH PARTY DEPENDENCY #42-org.junit.platform:junit-platform-commons: 4TH PARTY DEPENDENCY #43- org.apiguardian:apiguardian-api: 4TH PARTY DEPENDENCY #44-org.junit.jupiter:junit-jupiter-params: 4TH PARTY DEPENDENCY #45- org.springframework:spring-jcl -----separator----- 4TH PARTY DEPENDENCY #04- com.jayway.jsonpath:json-path License Type: Apache 2.0 /* * Copyright 2011 Kalle Stenflo * 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</p>

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Marty Pitt, Dilip Krishnan, and Adrian Kelly	springfox-boot-starter 3.0.0	<p>com.fasterxml » classmate 1.5.1</p> <p>io.springfox » springfox-oas 3.0.0</p> <p>springfox-data-rest 3.0.0</p> <p>io.springfox » springfox-bean-validators 3.0.0</p> <p>io.springfox » springfox-swagger2 3.0.0</p> <p>io.springfox » springfox-swagger-ui 3.0.0</p> <p>org.springframework.plugin » spring-plugin-core 2.0.0.RELEASE</p> <p>org.springframework.plugin » spring-plugin-metadata 2.0.0.RELEASE</p> <p>APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>-----</p> <p>Third party dependency</p> <p>org.slf4j » slf4j-api 1.7.25</p> <p>See Appendix G</p>

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		<p>FOURTH-PARTY DEPENDENCY #11 org.apache.kafka:kafka-clients:jar:3.1.1</p> <p>FOURTH-PARTY DEPENDENCY #12 org.lz4:lz4-java:jar:1.8.0</p> <p>FOURTH-PARTY DEPENDENCY #13 org.xerial.snappy:snappy-java:jar:1.1.8.4</p> <p>COMMON COPYRIGHT NOTICES</p> <p>Apache License 2.0</p> <p>COMMON LICENSE TEXT</p> <p>Same as TEXT mentioned under TOP-LEVEL License Text</p> <p>-----Notice -----</p> <p>Spring Framework \${version} Copyright (c) 2002-\$(copyright) Pivotal, Inc.</p> <p>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.</p> <p>This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the license.txt file.</p> <p>-----separator-----</p> <p>FOURTH-PARTY DEPENDENCY #14 com.github.luben:zstd-jni:jar:1.5.0-4</p> <p>Zstd-jni: JNI bindings to Zstd Library</p> <p>Copyright (c) 2015-present, Luben Karavelov/ All rights reserved.</p> <p>BSD License</p> <p>See Appendix M</p> <p>-----separator-----</p> <p>FOURTH-PARTY DEPENDENCY #15 org.slf4j:slf4j-api:jar:1.7.36</p> <p>Copyright (c) 2004-2017 QOS.ch All rights reserved.</p> <p>See Appendix G</p> <p>-----separator-----</p>

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Pivotal Software, Inc	Spring Retry 1.3.3 Spring Retry 1.3.4	<pre> spring-retry 1.3.1 License: Apache License Version 2.0 Copyright notice: [3] License: [0] ***4th Party dependencies*** spring-core 5.3.6 License: Apache License Version 2.0 Copyright notice: [2] License: [0] spring-jcl 5.3.6 License: Apache License Version 2.0 Copyright notice: [2] License: [0] commons-logging 1.2 License: Apache License Version 2.0 Copyright notice: [1] License: [0] references: ===== Start of Reference [0] ===== APACHE 2.0 - See Appendix E ===== End of Reference [0] ===== ===== Start of Reference [1] ===== Apache Commons Logging Copyright 2003-2014 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http:// www.apache.org/). ===== End of Reference [1] ===== ===== Start of Reference [2] ===== Spring Framework \${version} Copyright (c) 2002-\${copyright} Pivotal, Inc. This product is licensed to you under the </pre>

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tcpdump project	tcpdump 4.9.3-1 tcpdump 4.9.3-2 tcpdump 4.9.3-3	<p>License: BSD</p> <p>See Appendix M</p> <p>.</p>

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Markus Siemens	TinyDB 4.5.1 TinyDB 4.5.2	<p>Copyright (C) 2013 Markus Siemens</p> <p>See Appendix G</p>

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B

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C

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 ===== File 8 of 38: ext/calendar: dow.c
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 ===== File 12 of 38: ext/gd/libgd/README
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 ===== File 21 of 38: ext/mbstring/ucgendat/ucgendat
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 ===== File 23 of 38: ext/standard/html_tables/mappings/8859-1.txt
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 ===== File 25 of 38: ext/standard/strnatcmp.c
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 ===== File 26 of 38: ext/xmlrpc/libxmlrpc/encodings.c
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===== File 27 of 38: ext/zip/lib/zip.h
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===== File 28 of 38: main/mergesort.c
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 ===== File 29 of 38: sapi/cli/php_http_parser.c
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=====
 ===== File 30 of 38: sapi/fpm/fpm/fpm_log.c
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===== File 33 of 38: TSRM/trheads.M4
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===== File 34 of 38: win32/flock.c
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 ===== File 35 of 38: win32/php_stdint.h

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===== File 38 of 38: Zend/zend_strtod.c

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