

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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

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Contents

1 Introduction

2 Licensing Information

3 Third-Party Notices and/or Licenses

3.1	Commercial Software	3-1
3.2	Open Source or Other Separately Licensed Software	3-1
3.2.1	Oracle Communications Cloud Native Core, Cloud Native Environment 23.4.0 Components	3-1
3.2.2	Automated Test Suite 23.4.0 Components	3-2
3.2.3	Oracle Communications Cloud Native Core, Binding Support Function 23.4.0 Components	3-3
3.2.4	Oracle Communications Cloud Native Core, Certificate Management 23.4.0	3-8
3.2.5	Oracle Communications Cloud Native Configuration Console 23.4.0 Components	3-9
3.2.6	Oracle Communications Cloud Native Core, Network Exposure Function 23.4.0 Components	3-11
3.2.7	Oracle Communications Cloud Native Core, Network Repository Function 23.4.0 Components	3-13
3.2.8	Oracle Communications Cloud Native Core, Network Slice Selection Function 23.4.0 Components	3-14
3.2.9	Oracle Communications Cloud Native Core, Cloud Native Core Policy 23.4.0 Components	3-15
3.2.10	Oracle Communications Cloud Native Core, Service Communication Proxy 23.4.0 Components	3-20
3.2.11	Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.4.0 Components	3-23
3.2.12	Oracle Communications Cloud Native Core, Unified Data Repository 23.4.0 Components	3-25
3.2.13	Oracle Communications Cloud Native Core, Licensing Information	3-28

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1

Introduction

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2

Licensing Information

Refer to the table below for information on:

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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Certificate Management - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>Certificate Management is an application that manages the lifecycle (create, delete, renew, etc.) of certificates used by some Oracle Communications Cloud Native Core Network Functions. It constantly monitors and renews the certificates based on their validity or expiry period.</p> <p>Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Certificate Management - per 25K Active Subscribers:</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, Routing and Selection Domain - 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Advanced Networking – 25K Active Subscribers	<p>Description: This sub-product adds the following optional features:</p> <ul style="list-style-type: none"> • Multiple Remote IP and Port combinations <p>Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Advanced Networking - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Perpetual

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 • Oracle Communications Cloud Native Core , Service Communication Proxy - 25K Active Subscribers

Product	Sub product	Licensing Information
		<ul style="list-style-type: none"> • 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</p> <p>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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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</p> <p>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.</p> <p>If SLF is not deployed: the subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> • 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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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.</p> <p>The Network Slice Selection Function (NSSF) provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services.</p> <p>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:</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, Policy Control Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network.</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 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.</p> <p>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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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</p> <p>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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>
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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>
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 <p>Note: This license is end of sale. The feature content has been moved to the base Network Function.</p>

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 • Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual

Product	Sub product	Licensing Information
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</p> <p>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</p> <p>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:</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, 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 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>
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.</p> <p>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>

Product	Sub product	Licensing Information
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.</p> <p>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</p> <p>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>
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</p> <p>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>

Product	Sub product	Licensing Information
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</p> <p>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</p> <p>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</p> <p>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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack D - per 25K Active Subscribers	<p>Description: This sub-product adds the following optional features to Converged Policy:</p> <ul style="list-style-type: none"> • AM/UE feature enhancements <ul style="list-style-type: none"> – Subscriber tracing – Limiting the number of sessions – Detection and handling of late arrival requests on N15 interface – Session Retry – UE-PCF discovery of AMF • Support for Authorization policies on Side car configuration • Timer Sheet Compliance • Support for SRA customization • Pending Transaction on N15 • Custom environment compliance • Support for Dual stack cluster with IPv4 Application <p>Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack D - 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
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack D - per 25K Active Subscribers	<p>Description: This sub-product adds the following optional features to Service Communication Proxy:</p> <ul style="list-style-type: none"> • Enhanced egress rate limiting • Enhanced message failure handling • ATS Optimization of Execution time • Support for Health API using HTTP2 OPTIONS • Custom environment compliance • Support for Aspen Service Mesh upgrade <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack D - 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 Feature Pack D - per 25K Active Subscribers	<p>Description: This sub-product adds the following optional features to Subscriber Location Function:</p> <ul style="list-style-type: none"> • Authorization policies on Side car configuration • ATS automatic log collection • Controlled shutdown on extended replication failures • Support for Dual stack cluster with IPv4 Application • Custom environment compliance <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack D - 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 D - per 25K Active Subscribers	<p>Description: This sub-product adds the following optional features to Network Repository Function.</p> <ul style="list-style-type: none"> • Support for Authorization policies on Side car configuration • Support for Health API using HTTP2 OPTIONS • Slice specific Metrics for NF discovery and notification • Custom environment compliance • Support for Dual stack cluster with IPv4 Application • Limit number of producers in discovery response <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack D - 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, Binding Support Function Feature Pack D - per 25K Active Subscribers	<p>Description: This sub-product adds the following optional features to Binding Support Function.</p> <ul style="list-style-type: none"> • Support for Aspen Service Mesh parameters • Subscriber identity in 5G messages 3GPP SBI Correlation customization • Support for Health API using HTTP2 OPTIONS • Custom environment compliance • Support for Dual stack cluster with IPv4 Application <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack D - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Binding Support Function – per 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack D - per 25K Active Subscribers	<p>Description: This sub-product adds the following optional features to Network Slice Selection Function.</p> <ul style="list-style-type: none"> • ATS Golden Configuration • Notify Response Error custom handling • Support for Health API using HTTP2 OPTIONS • Support for User-Agent header • Custom environment compliance • Support for Dual stack cluster with IPv4 Application • Update VNFD customization • Support for Authorization policies on Side car configuration • Ingress Gateway POD Protection Defence <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack D - per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Network Slice Selection Function – per 25K Active Subscribers

 **Note:**

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

 **Note:**

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

 **Note:**

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

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

 **Note:**

Oracle Linux, used by all the 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 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Environment 23.4.0:

- APScheduler 3.10.4
- Crontier 1.4.0
- exabgp 4.2.21
- Flask 3.0.0
- HAproxy 2.6.7
- Injector 0.21.0
- Jenkins 2.414.1
- Kubernetes Python Client 28.1.0
- Kubespray 2.23.0
- OpenLDAP 2.5.16
- Oracle OpenSearch 2.3.0

- Oracle OpenSearch Dashboards 2.3.0
- Paramiko 3.3.1
- Prometheus Python Client 0.17.0
- python-json-logger 2.0.7
- python-openstackclient 6.2.0
- pyyaml 6.0.1
- Schedule 1.2.1
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-data-jpa 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- SQLAlchemy 2.0.21
- vcd-cli 24.1.0

3.2.2 Automated Test Suite 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Automated Test Suite (ATS) 23.4.0:

- Apache HTTP Server 2.4.37-56.0.1
- behave 1.2.6
- Blue Ocean 1.27.9
- colorlog 6.7.0
- dnspython 2.2.1
- Flask 3.0.0
- geckodriver 0.32.0
- http2-client 11.0.16
- httpx 0.23.3
- Jenkins 2.432
- Jenkins active choices plug-in 2.7.2
- Jetty 11.0.16
- JMeter 5.6.1
- jsonmerge 1.9.2
- jwcrypto 1.5.0

- Kubernetes & OpenShift Java Client 6.7.2
- Kubernetes Client Java 6.8.1
- Kubernetes Python Client 26.1.0
- Login Theme Plugin for Jenkins 82.v6f8cc54f93c5
- Matrix Authorization Strategy Plug-in 3.2.1
- OCI SDK for Python 2.114.0
- Opensearch Python Client 2.2.0
- Paramiko 3.3.1
- pipeline-stage-view 2.33
- pyyaml 6.0.1
- Quart 0.19.3
- regex 2023.6.3
- requests 2.31.0
- Selenium - Python 4.15.2
- Simple Theme Plugin for Jenkins 172.v4b_8766c70078
- test-results-analyzer-plugin 0.4.0
- TinyDB 4.8.0

3.2.3 Oracle Communications Cloud Native Core, Binding Support Function 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Binding Support Function 23.4.0:

- @hapi/inert 7.1.0
- @hapi/wreck 18.0.0
- @hapi/wreck 18.0.0
- bcpkix-jdk15on 1.70
- bcpkix-jdk18on 1.76
- bind-utils 9.11.36-3
- Blockly 9.3.3
- Brave 5.14.0
- bucket4j 7.6.0
- caffeine 3.1.8
- coherence-spring-boot-starter 3.3.2
- Commons Codec 1.16.0
- Commons CSV 1.10.0
- Commons IO 2.13.0
- Commons Lang 3.13.0

- Commons Pool 2.12.0
- deep-diff 1.0.2
- dnsjava 3.5.1
- dnspython 2.2.1
- dotenv 16.0.3
- Equals Verifier 3.14.2
- fastjson 1.2.83
- Fastjson2 2.0.35
- file-saver 2.0.5
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 32.0.1
- gunicorn 21.2.0
- hapi 21.3.2
- HikariCP 5.0.1
- hsqldb 2.7.2
- HttpComponents Client 5.2.1
- HttpComponents HttpClient 4.5.14
- HttpCore 5.2.3
- HttpCore NIO 4.4.16
- httpx 0.24.0
- httpx 0.23.3
- import-fresh 3.3.0
- influxdb-java 2.23
- ip 1.1.8
- ipaddr.js 2.1.0
- ipaddress 5.3.4
- jackson-annotations 2.15.3
- jackson-core 2.15.3
- jackson-databind 2.15.3
- jackson-datatype-jdk8 2.15.3
- jackson-datatype-joda 2.15.3
- jackson-datatype-jsr310 2.15.3
- Jakarta Activation API (JAF) 2.1.2
- Jakarta Annotations API 3.0.0-M1
- Jakarta Bean Validation API 3.0.2

- Jakarta Restful Web Services JAX-RS API 3.1.0
- Jakarta Servlet 6.0.0
- Jakarta XML Binding API (JAXB) 4.0.1
- Jakarta XML Binding RI (JAXB) 4.0.2
- Jakarta XML Web Services (JAX-WS) RI (Metro) 4.0.1
- jakarta.inject-api 2.0.1
- jakarta.mail-api 2.1.2
- jakarta.xml.ws-api 4.0.0
- JavaScript Extension Toolkit (JET) 14.1.2
- Javassist 3.29.2-GA
- jaxb-core 4.0.2
- jaxb-impl 4.0.2
- jersey-client 3.1.3
- jersey-common 3.1.3
- jersey-hk2 3.1.3
- jersey-media-json-jackson 3.1.3
- jersey-media-multipart 3.1.3
- jersey-server 3.1.3
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.9
- jetty-jakarta-servlet-api 5.0.2
- Jinja2 3.1.2
- jjwt 0.11.5
- JLDAP-Policy 2008/3/1
- Jose4j 0.9.3
- jQuery 3.6.1
- jSMPP 3.0.0
- JSON in Java 20231013
- jsonEditor 9.10.2
- json-path 2.8.0
- json-schema-validator 1.0.71
- js-yaml 4.1.0
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- LMAX Disruptor 3.4.2
- lodash 4.17.21
- Log4j-API 2.20.0

- log4j-core 2.20.0
- log4j-slf4j-impl 2.20.0
- log4j-web 2.20.0
- Logback 1.4.11
- Lombok 1.18.28
- matplotlib 3.7.1
- metrics-core 4.2.21
- micrometer-registry-prometheus 1.11.5
- 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
- net-tools 2.0-0.52.20160912git
- netty-codec-http2 4.1.100.Final
- netty-handler 4.1.94.Final
- numpy 1.26.0
- okhttp-logging-interceptor 4.11.0
- Okio 3.4.0
- opentelemetry/api 1.6.0
- opentelemetry/auto-instrumentations-node 0.39.2
- opentelemetry-javaagent 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- Protocol Buffers (aka Google protobuf) 3.21.8
- python-mysqldb 2.1.1
- pyyaml 6.0.1
- reactor-core 3.5.11
- reactor-netty-http 1.1.12
- reactor-test 3.5.0
- regex 2023.6.3
- requests 2.31.0
- simpleclient_servlet 0.16.0
- slf4j-api 2.0.7
- SnakeYAML 2.2
- Spring Cloud Starter Gateway 4.0.6
- Spring Retry 2.0.4

- spring-aop 6.0.13
- spring-beans 6.0.13
- spring-boot-devtools 3.1.5
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-cache 3.1.5
- spring-boot-starter-data-jpa 3.1.5
- spring-boot-starter-jdbc 3.1.5
- spring-boot-starter-jersey 3.1.5
- spring-boot-starter-jetty 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- spring-boot-starter-web-services 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-kubernetes-fabric8 3.0.3
- spring-cloud-starter-kubernetes-fabric8-all 3.0.4
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 3.0.4
- spring-context 6.0.13
- spring-context-support 6.0.13
- spring-core 6.0.13
- springdoc-openapi-starter-webmvc-ui 2.1.0
- springdoc-openapi-ui 1.6.14
- spring-expression 6.0.13
- spring-jcl 6.0.13
- spring-jdbc 6.0.13
- spring-kafka 2.9.12
- spring-messaging 6.0.13
- spring-orm 6.0.13
- spring-security-core 6.1.3
- spring-web 6.0.13
- spring-webmvc 6.0.13
- spring-ws-security 4.0.4

- tomcat-embed-el 10.1.15
- TypeScript 4.6.4
- undertow-core 2.3.10.Final
- winston 3.11.0
- wiremock 2.35.0
- XML Security for Java 3.0.3
- XStream 1.4.20
- Zipkin 2.24.3
- zipkin-reporter-java 2.16.4

3.2.4 Oracle Communications Cloud Native Core, Certificate Management 23.4.0

The following is the list of components for Oracle Communications Cloud Native Core, Certificate Management 23.4.0:

- bcpkix-jdk18on 1.76
- bind-utils 9.11.36-8
- gnu tar 1.30-9
- Guava 32.0.1
- Kubernetes Java Client 18.0.1
- micrometer-registry-prometheus 1.11.5
- net-tools 2.0-0.52.20160912git
- Okio 3.4.0
- OpenSSL 3.1.3
- SnakeYAML 2.2
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-actuator 3.1.6
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-log4j2 3.1.6
- spring-boot-starter-test 3.1.5
- spring-boot-starter-test 3.1.6
- spring-boot-starter-undertow 3.1.6
- spring-boot-starter-web 3.1.5
- spring-boot-starter-web 3.1.6
- spring-cloud-starter-kubernetes-fabric8-config 3.0.3
- springdoc-openapi-starter-webmvc-ui 2.1.0
- tcpdump 4.9.3-3

3.2.5 Oracle Communications Cloud Native Configuration Console 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Configuration Console 23.4.0:

- bcpkix-jdk18on 1.76
- bind-utils 9.11.36-8
- Blockly 8.0.0
- bucket4j 7.6.0
- Commons IO 2.13.0
- file-saver 2.0.5
- gnu tar 1.30-9
- GSON 2.10
- Guava 32.0.1
- HikariCP 5.0.1
- jackson-databind 2.15.2
- jackson-datatype-joda 2.13.5
- JavaScript Extension Toolkit (JET) 14.1.2
- Javassist 3.29.2-GA
- jersey-client 2.39
- jersey-common 2.39
- jersey-hk2 2.39
- jersey-media-json-jackson 2.39
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.8
- Jetty ReactiveStream HttpClient 3.0.9
- Jose4j 0.9.3
- js-yaml 4.1.0
- Keycloak 22.0.5
- Kubernetes Client Java 6.1.1
- Kubernetes Java Client 16.0.0
- lodash 4.17.21
- Log4j-API 2.20.0
- log4j-core 2.20.0
- log4j-slf4j-impl 2.20.0
- log4j-web 2.20.0
- Lombok 1.18.28

- micrometer-registry-prometheus 1.11.0
- micrometer-registry-prometheus 1.11.5
- mocha 10.2.0
- net-tools 2.0-0.52.20160912git
- Okio 3.4.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- protobuf-java 3.24.0
- SnakeYAML 2.2
- Spring Cloud Starter Gateway 4.0.6
- Spring Framework 6.0.11
- spring-boot-devtools 3.1.5
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-actuator 3.1.6
- spring-boot-starter-data-jpa 3.1.5
- spring-boot-starter-jdbc 3.1.5
- spring-boot-starter-jdbc 3.1.6
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-log4j2 3.1.6
- spring-boot-starter-oauth2-client 3.1.5
- spring-boot-starter-oauth2-resource-server 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-undertow 3.1.6
- spring-boot-starter-web 3.1.5
- spring-boot-starter-web 3.1.6
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-bootstrap 4.0.3
- spring-cloud-starter-kubernetes-fabric8 3.0.3
- spring-cloud-starter-kubernetes-fabric8-config 3.0.3
- spring-kafka 2.9.12
- tcpdump 4.9.3-3

3.2.6 Oracle Communications Cloud Native Core, Network Exposure Function 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Exposure Function 23.4.0:

- bcpkix-jdk18on 1.76
- bind-utils 9.11.36-8
- bucket4j 7.6.0
- caffeine 3.1.7
- coherence-spring-boot-starter 4.0.0
- Commons IO 2.13.0
- dnsjava 3.5.1
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 32.0.1
- gunicorn 21.2.0
- ipaddress 5.3.4
- jackson-databind 2.15.2
- jackson-databind-nullable 0.2.6
- Jakarta Bean Validation API 3.0.2
- jersey-client 3.1.2
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.1.2
- jjwt 0.11.5
- Jose4j 0.9.3
- JSON in Java 20231013
- json-path 2.8.0
- json-schema-validator 1.0.74
- json-smart 2.4.10
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- Log4j-API 2.20.0
- log4j-core 2.20.0
- log4j-layout-template-json 2.20.0
- log4j-web 2.20.0

- Lombok 1.18.28
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.11.0
- micrometer-registry-prometheus 1.11.5
- net-tools 2.0-0.52.20160912git
- numpy 1.26.0
- NumPy 1.22.3
- okhttp-logging-interceptor 4.11.0
- opentelemetry-api 1.28.0
- opentelemetry-sdk 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- protobuf-java 3.24.0
- python-mysqldb 2.1.1
- pyyaml 6.0.1
- reactor-core 3.4.18
- reactor-core 3.5.0
- requests 2.31.0
- SnakeYAML 2.2
- Spring Cloud Starter Gateway 4.0.6
- Spring Framework 6.0.11
- spring-boot-devtools 3.1.5
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-data-jpa 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-oauth2-client 3.1.5
- spring-boot-starter-oauth2-resource-server 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-bootstrap 4.0.3
- spring-cloud-starter-kubernetes-fabric8-config 3.0.3
- springdoc-openapi-starter-webmvc-ui 2.1.0

- spring-kafka 2.9.12
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final
- waitress 2.1.2

3.2.7 Oracle Communications Cloud Native Core, Network Repository Function 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Repository Function 23.4.0:

- bcpkix-jdk18on 1.76
- bucket4j 7.6.0
- Commons IO 2.13.0
- dnsjava 3.5.1
- Flask 2.3.2
- Guava 32.0.1
- gunicorn 21.2.0
- ipaddress 5.3.4
- jackson-databind 2.15.2
- jackson-databind 2.15.3
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.1.2
- jjwt 0.11.5
- Jose4j 0.9.3
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- log4j-layout-template-json 2.20.0
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.11.0
- numpy 1.26.0
- Okio 3.4.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0

- protobuf-java 3.24.0
- python-mysqclient 2.1.1
- pyyaml 6.0.1
- requests 2.28.2
- SnakeYAML 2.2
- Spring Cloud Starter Gateway 4.0.6
- Spring Framework 6.0.11
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-cache 3.1.5
- spring-boot-starter-data-jpa 3.1.5
- spring-boot-starter-jdbc 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-oauth2-client 3.1.5
- spring-boot-starter-oauth2-resource-server 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-bootstrap 4.0.3
- spring-cloud-starter-kubernetes-fabric8 3.0.3
- spring-cloud-starter-kubernetes-fabric8-config 3.0.3
- springdoc-openapi-starter-webmvc-ui 2.1.0
- spring-kafka 2.9.12

3.2.8 Oracle Communications Cloud Native Core, Network Slice Selection Function 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Slice Selection Function 23.4.0:

- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.13.0
- dnsjava 3.5.1
- Guava 32.0.1
- HttpComponents Client 5.1.3

- HttpComponents Client 5.2.1
- ipaddress 5.3.4
- jackson-databind 2.13.4.2
- Jetty 11.0.17
- jjwt 0.11.5
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- micrometer-registry-prometheus 1.9.4
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- reactor-netty-http 1.0.24
- SnakeYAML 1.32
- SnakeYAML 2.0
- Spring Cloud Starter Gateway 4.0.6
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 3.0.3
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.9.9
- Undertow 2.3.0

3.2.9 Oracle Communications Cloud Native Core, Cloud Native Core Policy 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Core Policy 23.4.0:

- @hapi/inert 7.1.0
- @hapi/wreck 18.0.0
- bcpkix-jdk15on 1.70
- bcpkix-jdk18on 1.76

- bind-utils 9.11.36-3
- Blockly 9.3.3
- Brave 5.14.0
- bucket4j 7.6.0
- caffeine 3.1.8
- coherence-spring-boot-starter 3.3.2
- Commons Codec 1.16.0
- Commons CSV 1.10.0
- Commons IO 2.13.0
- Commons Lang 3.13.0
- Commons Pool 2.12.0
- deep-diff 1.0.2
- dnsjava 3.5.1
- dnspython 2.2.1
- dotenv 16.0.3
- Equals Verifier 3.14.2
- fastjson 1.2.83
- Fastjson2 2.0.35
- file-saver 2.0.5
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 32.0.1
- gunicorn 21.2.0
- hapi 21.3.2
- HikariCP 5.0.1
- hsqldb 2.7.2
- HttpComponents Client 5.2.1
- HttpComponents HttpClient 4.5.14
- HttpCore 5.2.3
- HttpCore NIO 4.4.16
- import-fresh 3.3.0
- influxdb-java 2.23
- ip 1.1.8
- ipaddr.js 2.1.0
- ipaddress 5.3.4
- jackson-annotations 2.15.3

- jackson-core 2.15.3
- jackson-databind 2.15.3
- jackson-datatype-jdk8 2.15.3
- jackson-datatype-joda 2.15.3
- jackson-datatype-jsr310 2.15.3
- Jakarta Activation API (JAF) 2.1.2
- Jakarta Annotations API 3.0.0-M1
- Jakarta Bean Validation API 3.0.2
- Jakarta Restful Web Services JAX-RS API 3.1.0
- Jakarta Servlet 6.0.0
- Jakarta XML Binding API (JAXB) 4.0.1
- Jakarta XML Binding RI (JAXB) 4.0.2
- Jakarta XML Web Services (JAX-WS) RI (Metro) 4.0.1
- jakarta.inject-api 2.0.1
- jakarta.mail-api 2.1.2
- jakarta.xml.ws-api 4.0.0
- JavaScript Extension Toolkit (JET) 14.1.2
- Javassist 3.29.2-GA
- jaxb-core 4.0.2
- jaxb-impl 4.0.2
- jersey-client 3.1.3
- jersey-common 3.1.3
- jersey-hk2 3.1.3
- jersey-media-json-jackson 3.1.3
- jersey-media-multipart 3.1.3
- jersey-server 3.1.3
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.9
- jetty-jakarta-servlet-api 5.0.2
- Jinja2 3.1.2
- jjwt 0.11.5
- JLDAP-Policy 2008/3/1
- Jose4j 0.9.3
- jQuery 3.6.1
- jSMPP 3.0.0
- JSON in Java 20231013
- jsonEditor 9.10.2

- json-path 2.8.0
- json-schema-validator 1.0.71
- js-yaml 4.1.0
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- LMAX Disruptor 3.4.2
- lodash 4.17.21
- Log4j-API 2.20.0
- log4j-core 2.20.0
- log4j-slf4j-impl 2.20.0
- log4j-web 2.20.0
- Logback 1.4.11
- Lombok 1.18.28
- matplotlib 3.7.1
- metrics-core 4.2.21
- micrometer-registry-prometheus 1.11.5
- 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
- net-tools 2.0-0.52.20160912git
- netty-codec-http2 4.1.100.Final
- netty-handler 4.1.94.Final
- numpy 1.26.0
- okhttp-logging-interceptor 4.11.0
- Okio 3.4.0
- opentelemetry/api 1.6.0
- opentelemetry/auto-instrumentations-node 0.39.2
- opentelemetry-javaagent 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- Protocol Buffers (aka Google protobuf) 3.21.8
- python-mysqldb 2.1.1
- pyyaml 6.0.1
- reactor-core 3.5.11

- reactor-netty-http 1.1.12
- reactor-test 3.5.0
- regex 2023.6.3
- requests 2.31.0
- simpleclient_servlet 0.16.0
- slf4j-api 2.0.7
- SnakeYAML 2.2
- Spring Cloud Starter Gateway 4.0.6
- Spring Retry 2.0.4
- spring-aop 6.0.13
- spring-beans 6.0.13
- spring-boot-devtools 3.1.5
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-cache 3.1.5
- spring-boot-starter-data-jpa 3.1.5
- spring-boot-starter-jdbc 3.1.5
- spring-boot-starter-jersey 3.1.5
- spring-boot-starter-jetty 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- spring-boot-starter-web-services 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-kubernetes-fabric8 3.0.3
- spring-cloud-starter-kubernetes-fabric8-all 3.0.4
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 3.0.4
- spring-context 6.0.13
- spring-context-support 6.0.13
- spring-core 6.0.13
- springdoc-openapi-starter-webmvc-ui 2.1.0
- springdoc-openapi-ui 1.6.14
- spring-expression 6.0.13

- spring-jcl 6.0.13
- spring-jdbc 6.0.13
- spring-kafka 2.9.12
- spring-messaging 6.0.13
- spring-orm 6.0.13
- spring-security-core 6.1.3
- spring-web 6.0.13
- spring-webmvc 6.0.13
- spring-ws-security 4.0.4
- tomcat-embed-el 10.1.15
- TypeScript 4.6.4
- undertow-core 2.3.10.Final
- winston 3.11.0
- wiremock 2.35.0
- XML Security for Java 3.0.3
- XStream 1.4.20
- Zipkin 2.24.3
- zipkin-reporter-java 2.16.4

3.2.10 Oracle Communications Cloud Native Core, Service Communication Proxy 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Service Communication Proxy 23.4.0:

- behave 1.2.6
- bind-utils 9.11.36-8
- Blue Ocean 1.27.9
- bucket4j 7.6.0
- colorlog 6.7.0
- Commons Lang 3.13.0
- dnsjava 3.5.1
- dnspython 2.2.1
- Drools 8.32.0.Final
- Drools-mvel 8.32.0.Final
- Flask 3.0.0
- gnu tar 1.30-9
- GSON 2.10
- http2-client 11.0.16

- HttpComponents Client 5.2.1
- httpx 0.23.3
- ipaddress 5.3.4
- jackson-databind 2.15.2
- jackson-dataformat-yaml 2.15.2
- jackson-datatype-joda 2.15.2
- jackson-module-afterburner 2.15.2
- Jenkins 2.432
- Jenkins active choices plug-in 2.7.2
- jersey-client 3.1.3
- jersey-hk2 3.1.3
- jersey-media-json-jackson 3.1.3
- Jetty 11.0.15
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.8
- JMeter 5.6.1
- JSON in Java 20231013
- jsonmerge 1.9.2
- json-path 2.8.0
- jwcrypto 1.5.0
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 26.1.0
- Log4j-API 2.20.0
- log4j-core 2.20.0
- log4j-layout-template-json 2.17.2
- Lombok 1.18.28
- Matrix Authorization Strategy Plug-in 3.2.1
- micrometer-registry-prometheus 1.11.0
- net-tools 2.0-0.52.20160912git
- OCI SDK for Python 2.114.0
- Opensearch Python Client 2.2.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- Paramiko 3.3.1
- pipeline-stage-view 2.33
- pyyaml 6.0.1

- Quart 0.19.3
- reactor-core 3.4.18
- reactor-core 3.5.0
- regex 2023.6.3
- requests 2.31.0
- Selenium - Python 4.15.2
- Simple Theme Plugin for Jenkins 172.v4b_8766c70078
- Spring Retry 2.0.1
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-actuator 3.1.6
- spring-boot-starter-actuator 2.7.18
- spring-boot-starter-data-jpa 3.1.6
- spring-boot-starter-data-jpa 2.7.18
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-log4j2 3.1.6
- spring-boot-starter-log4j2 2.7.18
- spring-boot-starter-undertow 3.1.6
- spring-boot-starter-undertow 2.7.18
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-validation 3.1.6
- spring-boot-starter-validation 2.7.18
- spring-boot-starter-web 3.1.5
- spring-boot-starter-web 3.1.6
- spring-boot-starter-webflux 3.1.5
- spring-boot-starter-webflux 3.1.6
- spring-boot-starter-webflux 2.7.18
- spring-context 6.0.13
- springdoc-openapi-starter-webmvc-ui 2.1.0
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.9.12
- tcpdump 4.9.3-3
- TinyDB 4.8.0
- zjsonpatch 0.4.14

3.2.11 Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.4.0:

- bcpkix-jdk18on 1.76
- bind-utils 9.11.36-8
- bucket4j 7.6.0
- Commons IO 2.13.0
- Commons Lang 3.13.0
- dnsjava 3.5.1
- Drools 8.32.0.Final
- Drools-mvel 8.32.0.Final
- Flask 2.3.2
- gnu tar 1.30-9
- GSON 2.10
- Guava 32.0.1
- gunicorn 21.2.0
- HttpComponents Client 5.2.1
- ipaddress 5.3.4
- jackson-annotations 2.15.3
- jackson-core 2.15.3
- jackson-databind 2.15.2
- jackson-databind 2.15.3
- jackson-datatype-joda 2.15.2
- jackson-datatype-joda 2.15.3
- jersey-client 3.1.3
- jersey-hk2 3.1.3
- jersey-media-json-jackson 3.1.3
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.8
- Jetty ReactiveStream HttpClient 3.0.9
- Jinja2 3.1.2
- jjwt 0.11.5
- Jose4j 0.9.3
- JSON in Java 20231013
- json-path 2.8.0

- json-schema-validator 1.0.74
- junit-vintage-engine 5.9.2
- 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 2.20.0
- log4j-core 2.20.0
- log4j-layout-template-json 2.17.2
- log4j-layout-template-json 2.20.0
- log4j-slf4j-impl 2.20.0
- log4j-web 2.20.0
- Lombok 1.18.28
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.11.0
- micrometer-registry-prometheus 1.11.5
- net-tools 2.0-0.52.20160912git
- numpy 1.26.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- protobuf-java 3.24.0
- python-mysqldb 2.1.1
- pyyaml 6.0.1
- reactor-core 3.5.0
- reactor-core 3.5.11
- requests 2.31.0
- SnakeYAML 2.2
- Spring Cloud Starter Gateway 4.0.6
- Spring Framework 6.0.11
- Spring Retry 2.0.4
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-cache 3.1.5
- spring-boot-starter-data-jpa 3.1.5

- spring-boot-starter-jdbc 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-oauth2-client 3.1.5
- spring-boot-starter-oauth2-resource-server 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-validation 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-bootstrap 4.0.3
- spring-cloud-starter-kubernetes-fabric8 3.0.3
- spring-cloud-starter-kubernetes-fabric8-config 3.0.3
- spring-context 6.0.13
- springdoc-openapi-starter-webmvc-ui 2.1.0
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.9.12
- tcpdump 4.9.3-3

3.2.12 Oracle Communications Cloud Native Core, Unified Data Repository 23.4.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Unified Data Repository 23.4.0:

- bind-utils 9.11.36-8
- bucket4j 7.6.0
- caffeine 3.1.8
- coherence-spring-boot-starter 4.0.0
- Commons Codec 1.16.0
- Commons IO 2.13.0
- Commons Text 1.10.0
- CXF 4.0.3
- dnsjava 3.5.1
- Eclipse Parsson 1.1.5
- Flask 3.0.0
- gnu tar 1.30-9
- GSON 2.10
- Guava 32.0.1

- gunicorn 21.2.0
- HttpComponents Client 5.2.1
- ipaddress 5.3.4
- jackson-core 2.15.3
- jackson-databind 2.15.3
- jackson-datatype-joda 2.15.3
- jersey-client 3.1.3
- jersey-common 3.1.3
- jersey-hk2 3.1.3
- Jetty 11.0.17
- Jetty ReactiveStream HttpClient 3.0.8
- Jetty ReactiveStream HttpClient 3.0.9
- Jinja2 3.1.2
- jjwt 0.11.5
- JSON in Java 20231013
- 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 2.20.0
- log4j-core 2.20.0
- log4j-layout-template-json 2.20.0
- log4j-slf4j-impl 2.20.0
- log4j-web 2.20.0
- Lombok 1.18.28
- micrometer-registry-prometheus 1.11.5
- mockito-inline 4.6.1
- net-tools 2.0-0.52.20160912git
- numpy 1.26.0
- okhttp-logging-interceptor 4.11.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- protobuf-java 3.24.0

- pyyaml 6.0.1
- requests 2.31.0
- SnakeYAML 2.2
- Spring Batch 5.0.3
- Spring Cloud Starter Gateway 4.0.6
- Spring Retry 2.0.4
- Spring-boot-starter 3.1.5
- spring-boot-starter-actuator 3.1.5
- spring-boot-starter-jdbc 3.1.5
- spring-boot-starter-log4j2 3.1.5
- spring-boot-starter-test 3.1.5
- spring-boot-starter-undertow 3.1.5
- spring-boot-starter-web 3.1.5
- spring-boot-starter-webflux 3.1.5
- spring-cloud-kubernetes-fabric8-discovery 3.0.3
- spring-cloud-starter-bootstrap 4.0.3
- spring-cloud-starter-kubernetes-fabric8-all 3.0.4
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 3.0.4
- springdoc-openapi-starter-webmvc-ui 2.1.0
- spring-intgration-core 6.1.4
- tcpdump 4.9.3-3
- Undertow 2.3.0

3.2.13 Oracle Communications Cloud Native Core, Licensing Information

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

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Eclipse Foundation	http2-client 11.0.16	<p>***** ***** Copied from BA Public License ***** ***** ***** Copied from LT Public License & Copyright Notices * See ECLIPSE 2.0 License</p>
Open API Initiative	jackson-databind-nullable 0.2.6	<p>License: Apache 2.0 ----- ----- Apache 2.0 ----- Apache License Version 2.0, January 2004 http://www.apache.org/licenses/ 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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The Legion Of The Bouncy Castle	bcpkix-jdk18on 1.76	

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Jan Ouwens	Equals Verifier 3.14.2	Apache 2.0 See Appendix E
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

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SnakeYAML.org	SnakeYAML 1.31 SnakeYAML 1.32	Apache 2.0 See Appendix E
Project Reactor	reactor-netty-http 1.0.24	Apache 2.0 See Appendix E
fabric8io	Kubernetes Client Java 6.1.1 Kubernetes Client Java 6.8.1 Kubernetes Client Java 16.0.0 Kubernetes Client Java 18.0.1	Apache 2.0 See Appendix E

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JBoss Open Source Community	Undertow 2.3.0 Final Undertow 2.7.4	<p>Apache License, version 2.0 - See Appendix E</p>

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Release	Derived from	Year	Owner	GPL-compatible? (1)																																															
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The Legion Of The Bouncy Castle Inc.	bcprov-ext-jdk15on 1.69	<p>Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://www.bouncycastle.org)</p> <p>See Appendix G</p>

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Benno Rice, Richard Jones and Jens Engel	behave 1.2.6	<p>Copyright (c) 2012-2014 Benno Rice, Richard Jones, Jens Engel and others, except where noted. All rights reserved.</p> <p>See Appendix M</p>

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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>inbot-utils (https://github.com/Inbot/inbot-utils) MIT License See Appendix G</p> <p>===== ===== */ -----</p> <p>drools-core 7.67.0.Final drools-compiler 7.67.0.Final drools-templates 7.67.0.Final drools-core-reflective 7.67.0.Final drools-core-dynamic 7.67.0.Final drools-ecj 7.67.0.Final drools-mvel 7.67.0.Final</p> <p>The Apache Software License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0 /* * Copyright 2015 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. */</p> <p>----- ----- -----</p> <p>---Dependency slf4j-api MIT License http://www.opensource.org/licenses/mit-license.php Begin license text.</p>

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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/). 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 (kevina@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
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		<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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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>

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Mozilla	geckodriver 0.32.0	Mozilla Public License, version 2.0 - See Appendix R
Free Software Foundation	gnu tar 1.30-9 gnu tar 1.30-6	GNU GENERAL PUBLIC LICENSE 3.0 - See Appendix E

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Hazelcast	Hazelcast Discovery Plugin for Kubernetes 2.1	<p>APACHE 2.0 - See Appendix E Copyright (c) 2008-2018, Hazelcast, Inc. All Rights Reserved. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http:// www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</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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Apache	HttpClient 4.5.10	<p>Apache HttpComponents HttpClient 4.5.8 Copyright 1999-2019 The Apache Software Foundation APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>Modules: *****</p> <p>httpclient httpmime fluent-hc httpclient-cache httpclient-win httpclient-osgi</p> <p>-----</p> <p>4th -party Dependencies: commons-codec » commons-codec 1.11, commons-codec-1.12.jar COPYRIGHT: Copyright 2002-2017 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/commons-codec-1.11/LICENSE.txt commons-logging » commons-logging 1.2 COPYRIGHT: Copyright 2003-2014 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt org.apache.httpcomponents » httpcore 4.4.11 COPYRIGHT: Copyright 2005-2019 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-core/blob/4.4.11/LICENSE.txt commons-lang3-3.9.jar Copyright © 2019 The Apache Software Foundation, Licensed under the Apache License, Version 2.0. LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt This project includes Public Suffix List copied from <https://publicsuffix.org/list/effective_tld_names.dat> licensed under the terms of the Mozilla Public License, v. 2.0 MPL 2.0 - See Appendix S This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.</p> <p>=====</p> <p>Fourth Party Dependency Name : ehcache-core Fourth Party Dependency License : Apache 2.0 Fourth Party Dependency Copyright : Copyright Ehcache V3 Copyright 2014-2016 Terracotta, Inc.</p>

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Apache	HttpClient 4.5.12	<p>Apache HttpComponents HttpClient 4.5.10 Copyright 1999-2019 The Apache Software Foundation APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>Modules: ***** httpclient httpmime fluent-hc httpclient-cache httpclient-win httpclient-osgi</p> <p>-----</p> <p>4P Dependencies: commons-codec » commons-codec 1.11, commons-codec-1.12.jar COPYRIGHT: Copyright 2002-2017 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/commons-codec-1.11/LICENSE.txt commons-logging » commons-logging 1.2 COPYRIGHT: Copyright 2003-2014 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt org.apache.httpcomponents » httpcore 4.4.11 COPYRIGHT: Copyright 2005-2019 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-core/blob/4.4.11/LICENSE.txt commons-lang3-3.9.jar Copyright © 2019 The Apache Software Foundation, Licensed under the Apache License, Version 2.0. LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt This project includes Public Suffix List copied from <https://publicsuffix.org/list/effective_tld_names.dat> licensed under the terms of the Mozilla Public License, v. 2.0 MPL 2.0 - See Appendix S This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.</p> <p>=====</p> <p>Fourth Party Dependency Name : ehcache-core Fourth Party Dependency License : Apache 2.0 Fourth Party Dependency Copyright : Copyright Ehcache V3 Copyright 2014-2016 Terracotta, Inc.</p>

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

Provider	Component (s)	Licensing Information
		<p>* org.eclipse.jetty.orbit:javax.security.auth.message</p> <p>The following dependencies are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish</p> <p>If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the 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. http://openjdk.java.net/legal/gplv2+ce.html</p> <p>* 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> <p>* org.ow2.asm:asm-commons * org.ow2.asm:asm</p> <p>The following dependencies are ASL2 licensed.</p> <p>* org.apache.taglibs:taglibs-standard-spec * org.apache.taglibs:taglibs-standard-impl</p> <p>The following dependencies 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 * org.mortbay.jasper:apache-el * org.apache.tomcat:tomcat-jasper-el * org.apache.tomcat:tomcat-el-api</p> <p>The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/</p>

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

Provider	Component (s)	Licensing Information
		<p>CDDL+GPL.html</p> <p>* 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 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>===== =====</p> <p>https://asm.ow2.io/license.html</p> <p>License 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>

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

Provider	Component (s)	Licensing Information
Eclipse Foundation	Jetty 9.4.42.v20210604	<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 Oracle elects the Apache Software License 2.0 in all instances where it is available for this component.</p> <p>===== ===== Notice.txt Notices for Eclipse Jetty ===== This content is produced and maintained by the Eclipse Jetty project. Project home: https://www.eclipse.org/jetty/ Trademarks ----- Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation. Copyright ----- All contributions are the property of the respective authors or of entities to which copyright has been assigned by the authors (eg. employer). Declared Project Licenses ----- This artifacts of this project are made available under the terms of: * the Eclipse Public License v. 1.0 http://www.eclipse.org/legal/epl-v10.html SPDX-License-Identifier: EPL-1.0 or * the Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0. SPDX-License-Identifier: Apache-2.0 The following dependencies are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message The following dependencies 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 The following dependencies are ASL2 licensed. * org.apache.taglibs:taglibs-standard-spec * org.apache.taglibs:taglibs-standard-impl</p>

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

Provider	Component (s)	Licensing Information
		<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>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 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>APACHE 2.0 - See Appendix E</p>

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

Provider	Component (s)	Licensing Information
Eclipse Foundation	Jetty 9.4.30.v20200611	<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 EPL License 1.0, refer Appendix J APACHE 2.0 - See Appendix E Notices for Eclipse Jetty</p> <p>=====</p> <p>This content is produced and maintained by the Eclipse Jetty project. Project home: https://www.eclipse.org/jetty/</p> <p>Trademarks -----</p> <p>Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.</p> <p>Copyright -----</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>This artifacts of this project are made available under the terms of:</p> <ul style="list-style-type: none"> * the Eclipse Public License v. 1.0 http://www.eclipse.org/legal/epl-v10.html SPDX-License-Identifier: EPL-1.0 or * the Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0 SPDX-License-Identifier: Apache-2.0 <p>The following dependencies are EPL.</p> <ul style="list-style-type: none"> * org.eclipse.jetty.orbit:org.eclipse.jdt.core <p>The following dependencies are EPL and ASL2.</p> <ul style="list-style-type: none"> * org.eclipse.jetty.orbit:javax.security.auth.message <p>The following dependencies are EPL and CDDL 1.0.</p> <ul style="list-style-type: none"> * org.eclipse.jetty.orbit:javax.mail.glassfish <p>The following dependencies are CDDL + GPLv2 with classpath exception.</p> <p>https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html</p> <ul style="list-style-type: none"> * javax.servlet:javax.servlet-api

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

Provider	Component (s)	Licensing Information
		<p>* javax.annotation:javax.annotation-api * javax.transaction:javax.transaction-api * javax.websocket:javax.websocket-api</p> <p>If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes.</p> <p>The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html</p> <p>* 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> <p>* org.ow2.asm:asm-commons * org.ow2.asm:asm</p> <p>The following dependencies are ASL2 licensed.</p> <p>* org.apache.taglibs:taglibs-standard-spec * org.apache.taglibs:taglibs-standard-impl</p> <p>The following dependencies 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 * org.mortbay.jasper:apache-el * org.apache.tomcat:tomcat-jasper-el * org.apache.tomcat:tomcat-el-api</p> <p>The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html</p> <p>* 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</p>

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Provider	Component (s)	Licensing Information
		<p>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 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>-----</p> <p>#####4th party dependencies#####</p> <p>org.ow2.asm asm / asm-common / asm-tree / asm-analysis 7.0</p> <p>COPYRIGHT and 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>-----</p> <p>FOURTH-PARTY DEPENDENCY #2 org.ow2.asm:asm 7.3.1</p> <p>FOURTH-PARTY DEPENDENCY #2 LICENSE of org.ow2.asm:asm component</p> <p>License</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 All rights reserved.</p> <p>See Appendix M</p> <p>=====-End of LICENSE of org.ow2.asm:asm component component=====</p> <p>=====</p> <p>-----</p> <p>org.mortbay.jasper apache-jsp 9.0.29</p> <p>COPYRIGHT: Mort Bay Consulting</p> <p>LICENSE: Apache 2.0 same as top-level license text above.</p>

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

Provider	Component (s)	Licensing Information
		<pre> --- org.apache.taglibs taglibs-standard-imp 1.2.5 org.apache.taglibs taglibs-standard-spec 1.2.5 COPYRIGHT: Copyright © 2001-2015 The Apache Software Foundation. All Rights Reserved. LICENSE: Apache 2.0 https://www.apache.org/licenses/ LICENSE-2.0 same as top-level license text above. --- org.eclipse.jetty.toolchain jetty-perf-helper 1.0.5 COPYRIGHT and LICENSE: // Copyright (c) 1995-2014 Mort Bay Consulting Pty. Ltd. // ----- // All rights reserved. This program and the accompanying materials // are made available under the terms of the Eclipse Public License v1.0 // and Apache License v2.0 which accompanies this distribution. // // The Eclipse Public License is available at // http://www.eclipse.org/legal/epl-v10.html // // The Apache License v2.0 is available at // http://www.opensource.org/licenses/apache2.0.php // // You may elect to redistribute this code under either of these licenses. same as top-level license text above. --- org.slf4j jcl104-over-slf4j 1.7.25 org.slf4j log4j-over-slf4j 1.7.25 org.slf4j slf4j-api 1.7.25 org.slf4j slf4j-simple 1.7.25 COPYRIGHT and LICENSE: Copyright (c) 2004-2017 QOS.ch All rights reserved. See Appendix G ----- org.jboss.logging 3.3.2.Final COPYRIGHT: Copyright 2010 Red Hat, Inc. LICENSE: Apache 2.0 https://github.com/jboss-logging/ jboss-logging/blob/3.3.2.Final/src/main/resources/META- INF/LICENSE.txt same as top-level license text above. --- </pre>

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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>

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Provider	Component (s)	Licensing Information
		<p>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>=====</p> <p>=====</p> <p>https://asm.ow2.io/license.html</p> <p>License</p> <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>-----separator-----</p> <p>FOURTH-PARTY DEPENDENCY #1 org.eclipse.jetty.http2:http2-http-client-transport:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #3 org.eclipse.jetty:jetty-http:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #4 org.eclipse.jetty:jetty-util:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #5 org.eclipse.jetty:jetty-io:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #6 org.eclipse.jetty.http2:http2-client:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #7 org.eclipse.jetty.http2:http2-common:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #8 org.eclipse.jetty.http2:http2-hpack:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #9 org.eclipse.jetty:jetty-alpn-client:9.4.40.v20210413</p> <p>FOURTH-PARTY DEPENDENCY #10 org.eclipse.jetty:jetty-alpn-java-client:9.4.40.v20210413</p> <p>License text and Notice is same as Top level license text and notice</p>

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

Provider	Component (s)	Licensing Information
Eclipse	Jetty 11.0.7 Jetty 11.0.11 Jetty 11.0.15 Jetty 11.0.17	<pre> Notices for Eclipse Jetty ===== This content is produced and maintained by the Eclipse Jetty project. Project home: https://www.eclipse.org/jetty/ Trademarks ----- Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation. Copyright ----- All contributions are the property of the respective authors or of entities to which copyright has been assigned by the authors (eg. employer). Declared Project Licenses ----- This artifacts of this project are made available under the terms of: * the Eclipse Public License v2.0 https://www.eclipse.org/legal/epl-2.0 SPDX-License-Identifier: EPL-2.0 or * the Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0 SPDX-License-Identifier: Apache-2.0 For Apache License, see Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.eclipse.jetty.http2:http2-http-client- transport:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #3 org.eclipse.jetty:jetty-http:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #4 org.eclipse.jetty:jetty-util:11.0.11 -- Apache , EPL FOURTH-PARTY DEPENDENCY #5 org.eclipse.jetty:jetty-io:11.0.11 -- Apache , </pre>

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

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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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>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-reactive-httpclient 1.1.2	<p>TOP-LEVEL COPYRIGHT NOTICE for org.eclipse.jetty:jetty-reactive-httpclient:1.1.2 /* * * 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. */</p> <p>APACHE 2.0 - See Appendix E</p> <p>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/>.* ***** *****/ FOURTH-PARTY DEPENDENCY #1 LICENSE No Copyright 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. You can copy, modify, distribute and perform the work, even for commercial purposes, all without asking permission. See Other Information below. This license is acceptable for Free Cultural Works. Other Information 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. 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>FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.24.v20191120 ===== ===== Jetty Web Container Copyright 1995-2019 Mort Bay Consulting Pty Ltd. ===== ===== The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd unless otherwise noted. Jetty is dual licensed under both * The Apache</p>

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

Provider	Component (s)	Licensing Information
		<p>2.0 License http://www.apache.org/licenses/LICENSE-2.0.html and * The Eclipse Public 1.0 License http://www.eclipse.org/legal/epl-v10.html Jetty may be distributed under either license. Text available in above links are represented below. ----- Eclipse The following artifacts are EPL. *</p> <p>org.eclipse.jetty.orbit:org.eclipse.jdt.core The following artifacts are EPL and ASL2. *</p> <p>org.eclipse.jetty.orbit:javafx.security.auth.message The following artifacts are EPL and CDDL 1.0. *</p> <p>org.eclipse.jetty.orbit:javafx.mail.glassfish ----- OW2 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</p> <p>org.ow2.asm:asm ASM is released under the following 3-Clause BSD License: 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 The following artifacts are ASL2 licensed.</p> <p>org.apache.taglibs:taglibs-standard-spec</p> <p>org.apache.taglibs:taglibs-standard-impl ----- MortBay 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> <p>org.apache.tomcat:tomcat-util-scan</p> <p>org.apache.tomcat:tomcat-util</p> <p>org.mortbay.jasper:apache-el</p> <p>org.apache.tomcat:tomcat-jasper-el</p> <p>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.</p> <p>EPL License 1.0, refer Appendix J</p> <p>APACHE 2.0 - See Appendix E</p> <p>MIT License, refer Appendix G</p>

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

Provider	Component (s)	Licensing Information
jetty	jetty-reactive-httpclient 1.1.4	<p>TOP-LEVEL COPYRIGHT NOTICE for org.eclipse.jetty:jetty-reactive-httpclient:1.1.2</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:1.1.2 Apache License, Version 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/>.* ***** *****/ FOURTH-PARTY DEPENDENCY #1 LICENSE No Copyright 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. You can copy, modify, distribute and perform the work, even for commercial purposes, all without asking permission. See Other Information below. This license is acceptable for Free Cultural Works. Other Information 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. 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 </pre>

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Provider	Component (s)	Licensing Information
		<p>should not imply endorsement by the author or the affirmer. -----seperator----- FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.24.v20191120</p> <p>=====</p> <p>===== Jetty Web Container Copyright 1995-2019 Mort Bay Consulting Pty Ltd.</p> <p>=====</p> <p>===== The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd unless otherwise noted. Jetty is dual licensed under both</p> <ul style="list-style-type: none"> * The Apache 2.0 License http://www.apache.org/licenses/LICENSE-2.0.html and * The Eclipse Public 1.0 License http://www.eclipse.org/legal/epl-v10.html <p>Jetty may be distributed under either license. Text available in above links are represented below.</p> <p>-----</p> <p>Eclipse The following artifacts are EPL.</p> <ul style="list-style-type: none"> * org.eclipse.jetty.orbit:org.eclipse.jdt.core The following artifacts are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message The following artifacts are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish <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 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 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 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>

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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>

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

Provider	Component (s)	Licensing Information
jsonwebtoken.io, Technology	jjwt 0.10.7 jjwt 0.11.5	<p>TOP-LEVEL COMPONENTS: io.jsonwebtoken:jjwt-api:0.10.7 io.jsonwebtoken:jjwt-impl:0.10.7 io.jsonwebtoken:jjwt-jackson:0.10.7</p> <p>COPYRIGHT NOTICE Copyright (C) 2019 jsonwebtoken.io This program is licensed to you under the Apache License Version 2.0, and you may not use this file except in compliance with the Apache License Version 2.0. You may obtain a copy of the Apache License Version 2.0 at http://www.apache.org/licenses/LICENSE-2.0. Unless required by applicable law or agreed to in writing, software distributed under the Apache License Version 2.0 is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License Version 2.0 for the specific language governing permissions and limitations there under. Extract as it is from NOTICE.md : ## Base64 implementation JJWT's `io.jsonwebtoken.io.Base64` implementation is based on [MigBase64](https://github.com/brsanthu/migbase64) with continued modifications for Base64 URL support and additional test cases. The MigBase64 copyright and license notice have been retained and are repeated here per that code's requirements: Licence (BSD): ===== Copyright (c) 2004, Mikael Grev, MiG InfoCom AB. (base64 @ miginfocom . com) All rights reserved. BSD License- See Appendix N ----- TOP-LEVEL LICENSE TEXT for io.jsonwebtoken:jjwt-api:0.10.7 io.jsonwebtoken:jjwt-impl:0.10.7 io.jsonwebtoken:jjwt-jackson:0.10.7 Apache License, Version 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #1 com.fasterxml.jackson.core:jackson-annotations:2.10.1 FOURTH-PARTY DEPENDENCY #1 COPYRIGHT NOTICES</p>

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		<p>Copyright © 2008–2017 FasterXML. All rights reserved. -----</p> <p>FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-core:2.10.1 FOURTH-PARTY DEPENDENCY #2 COPYRIGHT NOTICES Jackson JSON-processor. Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi # Jackson JSON processor Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com. ## Licensing Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com). ## Credits A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses. -----</p> <p>FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-databind:2.10.1 FOURTH-PARTY DEPENDENCY #3 COPYRIGHT NOTICES Copyright © 2008–2019 FasterXML. All rights reserved. -----</p> <p>FOURTH-PARTY DEPENDENCY #1 com.fasterxml.jackson.core:jackson-annotations:2.10.1 FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-core:2.10.1 FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-databind:2.10.1 COMMON LICENSE NOTICE Apache License, Version 2.0</p>

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

Provider	Component (s)	Licensing Information
jsonwebtoken.io	jjwt 0.11.2	<p>Top Level Components and subcomponents: JWT :: API (io.jsonwebtoken:jwt-api) Copyright (C) 2014 jsonwebtoken.io JWT :: Impl (io.jsonwebtoken:jwt-impl) Copyright (C) 2014 jsonwebtoken.io JWT :: Extensions :: Jackson (io.jsonwebtoken:jwt-jackson) Copyright (C) 2014 jsonwebtoken.io JWT :: Extensions :: Gson (io.jsonwebtoken:jwt-gson) Copyright (C) 2014 jsonwebtoken.io JWT :: Extensions :: org.json (io.jsonwebtoken:jwt-orgjson) Copyright (C) 2014 jsonwebtoken.io</p> <p>APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>JJWT's io.jsonwebtoken.io.Base64 implementation is based on MigBase64 with continued modifications for Base64 URL support and additional test cases. The MigBase64 copyright and license notice have been retained and are repeated here per that code's requirements: Licence (BSD): ===== Copyright (c) 2004, Mikael Grev, MiG InfoCom AB. (base64 @ miginfocom . com) All rights reserved. See Appendix M</p> <p>-----</p> <p>***** FOURTH PARTY DEPENDENCIES *****</p> <p>-----</p> <p>Jackson-annotations (com.fasterxml.jackson.core:jackson-annotations) Copyright (c) 2007- 2020 Tatu Saloranta, tatu.saloranta@iki.fi Jackson-core (com.fasterxml.jackson.core:jackson-core) Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fi jackson-databind (com.fasterxml.jackson.core:jackson-databind) Copyright © 2008–2019 FasterXML. All rights reserved. Gson (com.google.code.gson:gson) LICENSE: Apache 2.0 license (SEE FULL TEXT ABOVE)</p>

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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>

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

Provider	Component (s)	Licensing Information
<p>Marc Prud'hommeaux</p>	<p>JLine 3.15.0</p>	<p>Copyright (c) 2002-2018, the original author or authors. All rights reserved. https://opensource.org/licenses/BSD-3-Clause See Appendix M 4th Party Dependency ===== org.fusesource.jansi version 1.18 org.apache.sshd 2.1 to 2.4 org.apache.felix.gogo.runtime 1.1.2 org.apache.felix.gogo.jline 1.1.4 ===== APACHE 2.0 - See Appendix E ===== juniversalchardet The library is subject to the Mozilla Public License Version 1.1. Alternatively, the library may be used under the terms of either the GNU General Public License Version 2 or later, or the GNU Lesser General Public License 2.1 or later. ===== slf4j SLF4J source code and binaries are distributed under the MIT license. Copyright (c) 2004-2017 QOS.ch All rights reserved. MIT License See Appendix G These terms are identical to those of the MIT License, also called the X License or the X11 License, which is a simple, permissive non-copyleft free software license. It is deemed compatible with virtually all types of licenses, commercial or otherwise. In particular, the Free Software Foundation has declared it compatible with GNU GPL. It is also known to be approved by the Apache Software Foundation as compatible with Apache Software License.</p>

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Provider	Component (s)	Licensing Information
<p>JS Foundation and other contributors</p>	<p>jQuery 3.6.0</p>	<p>Copyright JS Foundation and other contributors, https://js.foundation/</p> <p>See Appendix G</p> <p>----- -----</p> <p>external/sizzle</p> <p>Copyright JS Foundation and other contributors, https://js.foundation/</p> <p>This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/sizzle</p> <p>The following license applies to all parts of this software except as documented below:</p> <p>====</p> <p>See Appendix G</p> <p>====</p> <p>All files located in the node_modules and external directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.</p>

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JSON.org	JSON-Java 20180813 JSON 20210307	Copyright (c) 2002 JSON.org Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: <ul style="list-style-type: none"> • The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. • The Software shall be used for Good, not Evil. See Appendix G
JSON.org	JSON-Java 20200518	URL for License – http://www.json.org/license.html Copyright (c) 2002 JSON.org See Appendix G
JSON.org	JSON in Java 20220320 JSON in Java 20231013	https://github.com/stleary/JSON-java/blob/master/LICENSE ----- ----- Copyright (c) 2002 JSON.org See Appendix G
Jayway	JsonPath 2.8.0	son-path/JsonPath 2.4.0 COPYRIGHT and LICENSE: Copyright 2017 Jayway 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 APACHE 2.0 - See Appendix E

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Provider	Component (s)	Licensing Information
Everit Kft	JSON Schema 1.12.1	<p>Copyright (C) 2011 Everit Kft. (http://www.everit.org) Licensed under the Apache License, Version 2.0 (the "License") APACHE 2.0 - See Appendix E</p> <p>4th-party dependencies:</p> <p>re2j/ The Go license/https://golang.org/LICENSE Copyright (c) 2009 The Go Authors. All rights reserved. See Appendix M</p> <p>Common-validator Apache Commons Validator Copyright 2001-2017 The Apache Software Foundation APACHE 2.0 - See Appendix E</p> <p>json 20160810 Copyright (c) 2002 JSON.org See Appendix G</p> <p>commons-beanutils 1.9.3 Apache Commons BeanUtils Copyright 2000-2016 The Apache Software Foundation APACHE 2.0 - See Appendix E</p> <p>handy-uri-templates 2.1.6 Copyright (c) 2012, Ryan J. McDonough All rights reserved. APACHE 2.0 - See Appendix E</p>

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Everit Kft	JSON Schema 1.12.2 JSON Schema 1.14.1	<p>JSON-Schema / License.txt Copyright (C) 2011 Everit Kft. (http://www.everit.org) Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>----- re2j/ The Go license/https://golang.org/LICENSE Copyright (c) 2009 The Go Authors. All rights reserved. See Appendix M</p> <p>----- Common-validator --notice-- Apache Commons Validator Copyright 2001-2017 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). ---license.txt--- APACHE 2.0 - See Appendix E</p> <p>----- json 20160810 / Copyright Copyright (c) 2002 JSON.org See Appendix G</p> <p>----- commons-beanutils:commons-beanutils:1.9.3 ---Notice --- Apache Commons BeanUtils Copyright 2000-2016 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). --License -- APACHE 2.0 - See Appendix E</p> <p>----- com.damnhandy:handy-uri-templates:2.1.6 / -- Notice-- Copyright (c) 2012, Ryan J. McDonough All rights reserved. APACHE 2.0 - See Appendix E</p>

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		<ul style="list-style-type: none"> • ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt <pre> /*Copyright (c) 2014, Francis Galiegue (fgaliegue@gmail.com) This software is dual-licensed under: <ul style="list-style-type: none"> • the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version; • the Apache Software License (ASL) version 2.0. Oracle elects Apache License v. 2.0 The text of this file and of both licenses is available at the root of this project or, if you have the jar distribution, in directory META-INF/, under the names LGPL-3.0.txt and ASL-2.0.txt respectively. Direct link to the sources: <ul style="list-style-type: none"> • LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt • ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt */ ----- jackson-coreutils 1.12 This software is dual-licensed under: <ul style="list-style-type: none"> • the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version; • the Apache Software License (ASL) version 2.0. Oracle elects Apache License v. 2.0 The text of this file and of both licenses is available at the root of this project or, if you have the jar distribution, in directory META-INF/, under the names LGPL-3.0.txt and ASL-2.0.txt respectively. Direct link to the sources: <ul style="list-style-type: none"> • LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt • ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt /*Copyright (c) 2014, Francis Galiegue (fgaliegue@gmail.com) This software is dual-licensed under: <ul style="list-style-type: none"> • the Lesser General Public License (LGPL) version 3.0 or, at your option, any later version; • the Apache Software License (ASL) version 2.0. Oracle elects Apache License v. 2.0 The text of this file and of both licenses is available at the root of this project or, if you have the jar distribution, in directory META-INF/, under the names LGPL-3.0.txt and ASL-2.0.txt respectively. Direct link to the sources: <ul style="list-style-type: none"> • LGPL 3.0: https://www.gnu.org/licenses/lgpl-3.0.txt • ASL 2.0: http://www.apache.org/licenses/LICENSE-2.0.txt */ </pre>

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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 data-bbox="777 751 841 806">Release Owner</th> <th data-bbox="841 751 1019 806">Derived GPL-</th> <th data-bbox="1019 751 1166 806">Year</th> </tr> </thead> <tbody> <tr> <td data-bbox="777 919 841 974">0.9.0 thru 1.2</td> <td data-bbox="841 919 1019 974">yes</td> <td data-bbox="1019 919 1166 974">1991-1995</td> </tr> <tr> <td data-bbox="777 974 841 1029">1.3 thru 1.5.2</td> <td data-bbox="841 974 1019 1029">1.2 yes</td> <td data-bbox="1019 974 1166 1029">1995-1999</td> </tr> <tr> <td data-bbox="777 1029 841 1083">1.6</td> <td data-bbox="841 1029 1019 1083">1.5.2</td> <td data-bbox="1019 1029 1166 1083">2000</td> </tr> <tr> <td data-bbox="777 1083 841 1138">2.0</td> <td data-bbox="841 1083 1019 1138">1.6</td> <td data-bbox="1019 1083 1166 1138">2000</td> </tr> <tr> <td data-bbox="777 1138 841 1192">1.6.1</td> <td data-bbox="841 1138 1019 1192">1.6</td> <td data-bbox="1019 1138 1166 1192">2001</td> </tr> <tr> <td data-bbox="777 1192 841 1247">2.1</td> <td data-bbox="841 1192 1019 1247">2.0+1.6.1</td> <td data-bbox="1019 1192 1166 1247">2001</td> </tr> <tr> <td data-bbox="777 1247 841 1302">2.0.1</td> <td data-bbox="841 1247 1019 1302">2.0+1.6.1</td> <td data-bbox="1019 1247 1166 1302">2001</td> </tr> <tr> <td data-bbox="777 1302 841 1356">2.1.1</td> <td data-bbox="841 1302 1019 1356">2.1+2.0.1</td> <td data-bbox="1019 1302 1166 1356">2001</td> </tr> <tr> <td data-bbox="777 1356 841 1411">2.1.2</td> <td data-bbox="841 1356 1019 1411">2.1.1</td> <td data-bbox="1019 1356 1166 1411">2002</td> </tr> <tr> <td data-bbox="777 1411 841 1465">2.1.3</td> <td data-bbox="841 1411 1019 1465">2.1.2</td> <td data-bbox="1019 1411 1166 1465">2002</td> </tr> <tr> <td data-bbox="777 1465 841 1520">2.2 and above</td> <td data-bbox="841 1465 1019 1520">2.1.1</td> <td data-bbox="1019 1465 1166 1520">2001-now</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	yes	1991-1995	1.3 thru 1.5.2	1.2 yes	1995-1999	1.6	1.5.2	2000	2.0	1.6	2000	1.6.1	1.6	2001	2.1	2.0+1.6.1	2001	2.0.1	2.0+1.6.1	2001	2.1.1	2.1+2.0.1	2001	2.1.2	2.1.1	2002	2.1.3	2.1.2	2002	2.2 and above	2.1.1	2001-now
Release Owner	Derived GPL-	Year																																				
0.9.0 thru 1.2	yes	1991-1995																																				
1.3 thru 1.5.2	1.2 yes	1995-1999																																				
1.6	1.5.2	2000																																				
2.0	1.6	2000																																				
1.6.1	1.6	2001																																				
2.1	2.0+1.6.1	2001																																				
2.0.1	2.0+1.6.1	2001																																				
2.1.1	2.1+2.0.1	2001																																				
2.1.2	2.1.1	2002																																				
2.1.3	2.1.2	2002																																				
2.2 and above	2.1.1	2001-now																																				

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Vitaly Puzrin	js-yaml 3.14.0	<p>Copyright (C) 2011-2015 by Vitaly Puzrin -----separator-----</p> <p>See Appendix G</p> <p>-----separator----- sprintf-js@1.0.3 (BSD-3-Clause) Copyright (c) 2007-2014, Alexandru Marasteanu All rights reserved.</p> <p>See Appendix M</p> <p>-----separator----- argparse@1.0.10 (MIT) Copyright (C) 2012 by Vitaly Puzrin</p> <p>See Appendix G</p> <p>-----separator----- esprima@4.0.1 (BSD-2-Clause) Copyright JS Foundation and other contributors, https://js.foundation/ See Appendix M</p> <p>-----separator-----</p>

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		<p>org.codehaus.plexus:plexus-interpolation:jar:1.24 Copyright 2001-2008 Codehaus Foundation.</p> <p>--</p> <p>com.github.stephenc.jcip:jcip-annotations:jar:1.0-1 Copyright 2013 Stephen Connolly.</p> <p>--</p> <p>org.aesh:aesh:jar:2.4 org.aesh:readline:jar:2.0 Copyright 2014 Red Hat Inc. and/or its affiliates and other contributors</p> <p>--</p> <p>org.fusesource.jansi:jansi:jar:1.18 Copyright (C) 2009-2017 the original author(s).</p> <p>--</p> <p>xerces:xercesImpl:jar:2.12.0.SP02 Copyright © 1999-2020 The Apache Software Foundation. All Rights Reserved.</p> <p>--</p> <p>com.fasterxml.jackson.core:jackson-core:jar:2.10.1 com.fasterxml.jackson.core:jackson-databind:jar:2.10.1 com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1 com.fasterxml.jackson.dataformat:jackson-dataformat-cbor:jar:2.10.1 com.fasterxml.classmate:jar:1.3.4 org.infinispan.infinispan-core:jar:9.4.18.Final org.infinispan.infinispan-commons:jar:9.4.18.Final org.infinispan.infinispan-multimap:jar:9.4.18.Final org.infinispan.infinispan-cache-store-remote:jar:9.4.18.Final org.infinispan.infinispan-client-hotrod:jar:9.4.18.Final Copyright 2016 Red Hat, Inc. and/or its affiliates</p> <p>--</p> <p>org.jboss.resteasy:resteasy-jaxrs:jar:3.11.2.Final Copyright 2019 Red Hat, Inc. and/or its affiliates</p> <p>--</p> <p>org.apache.kerby:kerby-asn1:jar:2.0.0 org.apache.commons:commons-collections4:jar:4.1 org.apache.james:apache-mime4j:jar:0.6 org.apache.santuario:xmlsec:jar:2.1.4 org.apache.maven:maven-aether-provider:jar:3.3.9 org.apache.maven:maven-artifact:jar:3.5.4 org.apache.maven.plugin-tools:maven-plugin-annotations:jar:3.4 org.apache.maven:maven-core:jar:3.3.9</p>

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

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>

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

Provider	Component (s)	Licensing Information
		<pre> com.google.j2objc:j2objc-annotations:jar:1.1 com.google.code.gson:gson:jar:2.8.2 <!-- Copyright 2011 Google Inc. All Rights Reserved. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. --> -- com.google.zxing:javase:jar:3.4.0 com.google.zxing:core:jar:3.4.0 <!-- Copyright (C) 2010 ZXing authors Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. --> -- com.github.ua-parser:uap-java:jar:1.4.3 Copyright 2012 Twitter, Inc -- org.yaml:snakeyaml:jar:1.20 Copyright (c) 2008, http://www.snakeyaml.org -- org.twitter4j:twitter4j-core:jar:4.0.7 Copyright 2007 Yusuke Yamamoto -- com.googlecode.javaewah:JavaEWAH:jar:1.1.6 com.googlecode.owasp-java-html-sanitizer:owasp-java- html-sanitizer:jar:20191001.1 </pre>

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

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		<p>(c) 2009-2016 Daniel Lemire (http://lemire.me/en/), Cliff Moon, David McIntosh (https://github.com/mctofu), Robert Becho (https://github.com/RBecho), Colby Ranger (https://github.com/crangeratgoogle), Veronika Zenz (https://github.com/veronikazenz), Owen Kaser (https://github.com/owenkaser), Gregory Ssi-Yan-Kai (https://github.com/gssiyankai), and Rory Graves (https://github.com/rorygraves)</p> <p>This code is licensed under Apache License, Version 2.0 (ASL2.0). (GPL 2.0 derivatives are allowed.)</p> <p>--</p> <p>org.jboss.logging:jboss-logging:jar:3.4.1.Final net.bytebuddy:byte-buddy:jar:1.9.11 com.github.ben-manes.caffeine:caffeine:jar:2.6.2 com.github.jai-imageio:jai-imageio-core:jar:1.4.0 Apache License, Version 2.0</p> <p>--</p> <p>org.jboss.logmanager:jboss-logmanager:jar:2.1.14.Final org.jboss.marshalling:jboss-marshalling:jar:2.0.9.Final org.jboss.marshalling:jboss-marshalling-osgi:jar:2.0.6.Final Copyright 2014 Red Hat, Inc. and/or its affiliates.</p> <p>--</p> <p>org.jboss.remoting:jboss-remoting:jar:5.0.17.Final org.jboss.aesh:aesh:jar:0.66.19 org.jboss.resteasy:resteasy-client:jar:3.11.2.Final org.jboss.resteasy:resteasy-jaxb-provider:jar:3.11.2.Final org.jboss.resteasy:resteasy-multipart-provider:jar:3.11.2.Final org.jboss.modules:jboss-modules:jar:1.10.0.Final org.jboss.logging:jboss-logging-processor:jar:2.2.1.Final org.jboss.logging:jboss-logging-annotations:jar:2.2.1.Final org.jboss.jdeparser:jdeparser:jar:2.0.3.Final org.jboss.classfilewriter:jboss-classfilewriter:jar:1.2.4.Final org.jboss.invocation:jboss-invocation:jar:1.5.2.Final org.jboss.marshalling:jboss-marshalling-river:jar:2.0.0.Final Copyright 2016, Red Hat, Inc., and individual contributors as indicated by the @author tags.</p> <p>-----separator-----</p> <p>org.codehaus.mojo:animal-sniffer-annotations:jar:1.14 org.codehaus.woodstox:stax2-api:jar:4.2 Copyright (c) 2009 codehaus.org.</p> <p>See Appendix G</p>

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Provider	Component (s)	Licensing Information
		<pre> -----separator----- Fourth Party Dependencies Licensed only The BSD License antlr:antlr:jar:2.7.7 ANTLR 4 License [The BSD License] Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved. See Appendix M -----separator----- Fourth Party Dependencies Licensed under the GNU Lesser General Public License v2.1 or later --> org.jboss.msc:jboss-msc:jar:1.4.11.Final Copyright 2010, Red Hat, Inc., and individual contributors as indicated by the @author tags -- org.jboss.metadata:jboss-metadata-common:jar:13.0.0.Final org.jboss.metadata:jboss-metadata-web:jar:13.0.0.Final org.jboss.metadata:jboss-metadata-ear:jar:13.0.0.Final <!-- ~ JBoss, Home of Professional Open Source. ~ Copyright 2016, Red Hat, Inc., and individual contributors ~ as indicated by the @author tags. See the copyright.txt file in the ~ distribution for a full listing of individual contributors. ~ ~ This is free software; you can redistribute it and/or modify it ~ under the terms of the GNU Lesser General Public License as ~ published by the Free Software Foundation; either version 2.1 of ~ the License, or (at your option) any later version. ~ ~ This software is distributed in the hope that it will be useful, ~ but WITHOUT ANY WARRANTY; without even the implied warranty of ~ MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU ~ Lesser General Public License for more details. ~ </pre>

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Provider	Component (s)	Licensing Information
		<p>~ You should have received a copy of the GNU Lesser General Public</p> <p>~ License along with this software; if not, write to the Free</p> <p>~ Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA</p> <p>~ 02110-1301 USA, or see the FSF site: http://www.fsf.org.</p> <p>--></p> <p>--</p> <p>org.hibernate:hibernate-core:jar:5.3.15.Final</p> <p>org.hibernate.common:hibernate-commons-annotations:jar:5.0.4.Final</p> <p>Copyright 2016 Red Hat, Inc. and/or its affiliates</p> <p>org.picketbox:picketbox:jar:5.0.3.Final ©</p> <p>Copyright 2013 Red Hat, Inc.</p> <p>-----separator-----</p> <p>com.jcraft:jsch:jar:0.1.55</p> <p>com.jcraft:jzlib:jar:1.1.3</p> <p>JSch 0.0.* was released under the GNU LGPL license. Later, we have switched over to a BSD-style license.</p> <p>Copyright (c) 2002-2015 Atsuhiko Yamanaka, JCraft, Inc.</p> <p>All rights reserved.</p> <p>See Appendix M</p> <p>-----separator-----</p> <p>Fourth Party Dependencies Licensed under EPL 1.0</p> <p>1. The following files are available in source code form under the Eclipse Public License at: http://www.oracle.com/technetwork/opensource/opensource-code-1366576.html. (The EPL license is reproduced below).</p> <p>2. All past Contributors to these files 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.</p> <p>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.</p> <p>4. These files are licensed in executable form under your Oracle license agreement. Oracle is solely responsible for any representations and warranties contained therein.</p> <p>com.h2database:h2:jar:1.4.197</p> <p>aether-api 1.0.2.v20150114</p>

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Provider	Component (s)	Licensing Information
		<p>aether-impl 1.0.2.v20150114 aether-spi 1.0.2.v20150114 aether-util 1.0.2.v20150114 org.eclipse.jgit 5.0.2.201807311906-r org.eclipse.sisu.inject 0.3.2 org.eclipse.sisu.plexus 0.3.2 -----separator----- Fourth Party Dependencies Licensed under MPL 1.1, LGPL 2.1 or Apache License 2.0 org.javassist:javassist:jar:3.23.2-GA Oracle elects the Apache License Version 2.0. -----separator----- org.dom4j:dom4j:jar:2.1.3 Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights Reserved. Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> 1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com. 4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd. 5. Due credit should be given to the DOM4J Project - https://dom4j.github.io/ <p>THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT</p>

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Kong Inc.	Kong 1.0.3	Copyright 2016-2018 Kong Inc. Licensed under the Apache License, Version 2.0 (the "License") APACHE 2.0 - See Appendix E

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

Provider	Component (s)	Licensing Information
JSON-SMART authors	json-smart 2.4.8	<p>Copyright Info: ----- Copyright 2011 JSON-SMART 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.</p> <p>License Info ----- Apache License Version 2.0, January 2004 http://www.apache.org/licenses/APACHE 2.0 - See Appendix E APPENDIX: How to apply the Apache License to your work. To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives. Copyright [yyyy] [name of copyright owner] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.</p>

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Provider	Component (s)	Licensing Information
The Kubernetes Authors	Kubernetes Java Client 16.0.0	Licenses Top-level license and Copyright APACHE 2.0 - See Appendix E ***** ***** org.yaml:snakeyaml APACHE 2.0 - See Appendix E Apache License, Version 1.1

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

Provider	Component (s)	Licensing Information
The Kubernetes Authors	Kubernetes Python Client 21.7.0 Kubernetes Python Client 23.3.0 Kubernetes Python Client 24.2.0 Kubernetes Python Client 28.1.0	<p>Copyright 2014 The Kubernetes Authors.</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>-----</p> <p>APACHE 2.0 - See Appendix E</p> <p>-----4th-party dependencies-----</p> <p>certifi</p> <p>This package contains a modified version of ca-bundle.crt:</p> <p>ca-bundle.crt -- Bundle of CA Root Certificates</p> <p>Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011# This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1# It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.</p>

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Provider	Component (s)	Licensing Information
		<pre> Just configure this file as the SSLCertificateFile.# **** BEGIN LICENSE BLOCK **** This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/. ***** Mozilla Public License Version 2.0 - See Appendix S ----- six Copyright (c) 2010-2020 Benjamin Peterson See Appendix G ----- python-dateutil Copyright 2017- Paul Ganssle Copyright 2017- dateutil contributors (see AUTHORS file) 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. </pre>

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Provider	Component (s)	Licensing Information
		<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> <p>dateutil - Extensions to the standard Python datetime module.</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> <p>dateutil - Extensions to the standard Python datetime module.</p> <p>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)</p> <p>All rights reserved.</p> <p>See Appendix M</p>

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Provider	Component (s)	Licensing Information
		<p>----- -----</p> <p>websocket-client</p> <p>LGPL v2.1 - See Appendix T</p> <p>----- -----</p> <p>requests</p> <p>Copyright 2019 Kenneth Reitz</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>----- -----</p> <p>requests-oauthlib 1.3.0</p> <p>ISC License</p> <p>Copyright (c) 2014 Kenneth Reitz.</p> <p>Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.</p> <p>THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL</p>

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Provider	Component (s)	Licensing Information
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CloudBees, Inc.	Login Theme Plugin for Jenkins 82.v6f8cc54f93c5	<p>MIT License Copyright (c) 2018, CloudBees, Inc. MIT License See Appendix G</p> <p>-----structs:-1.2----- The MIT License (MIT) Copyright 2014 Jesse Glick. Copyright (c) 2017, CloudBees, Inc. Copyright (c) 2018, CloudBees, Inc. Copyright 2019 CloudBees, Inc. MIT License See Appendix G</p>

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Apache	Log4J 2.13.1	<p>These are all the Log4j 2.13.1 artifacts: log4j-1.2-api-2.13.1.jar log4j-api-2.13.1.jar log4j-api-scala_2.12-11.0.jar log4j-cassandra-2.13.1.jar log4j-core-2.13.1.jar log4j-couchdb-2.13.1.jar log4j-flume-ng-2.13.1.jar log4j-iostreams-2.13.1.jar log4j-jcl-2.13.1.jar log4j-jul-2.13.1.jar log4j-slf4j-impl-2.13.1.jar log4j-taglib-2.13.1.jar log4j-to-slf4j-2.13.1.jar log4j-web-2.13.1.jar They are all covered under the following license and copyright notice: License: Apache 2.0</p> <p>See Appendix E</p> <p>Copyright Notice: Apache Log4j API Copyright 1999-2020 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/).</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>and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:</p> <ul style="list-style-type: none"> * LICENSE: * license/LICENSE.libdivsufsort.txt (MIT License) <p>Copyright (c) 2003-2008 Yuta Mori All Rights Reserved. MIT License See Appendix G</p> <ul style="list-style-type: none"> * HOMEPAGE: * https://github.com/y-256/libdivsufsort <p>This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:</p> <ul style="list-style-type: none"> * LICENSE: * license/LICENSE.jctools.txt (ASL2 License) * HOMEPAGE: * https://github.com/JCTools/JCTools <p>This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:</p> <ul style="list-style-type: none"> * LICENSE: * license/LICENSE.jzlib.txt (BSD style License) <p>Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved. See Appendix M</p> <ul style="list-style-type: none"> * HOMEPAGE: * http://www.jcraft.com/jzlib/ <p>This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:</p> <ul style="list-style-type: none"> * LICENSE: * license/LICENSE.compress-lzf.txt (Apache License 2.0) * HOMEPAGE: * https://github.com/ning/compress <p>This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at: * LICENSE:</p> <ul style="list-style-type: none"> * license/LICENSE.lz4.txt (Apache License 2.0) * HOMEPAGE: * https://github.com/jpountz/lz4-java <p>This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:</p> <ul style="list-style-type: none"> * LICENSE: * license/LICENSE.lzma-java.txt (Apache License 2.0) * HOMEPAGE:

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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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Provider	Component (s)	Licensing Information
opentracing-contrib	OpenTracing Spring Jaeger Starter 0.1.4	APACHE 2.0 - See Appendix E 4 th -party dependencies: jaeger-core v0.27.0 opentracing-api v0.31.0 opentracing-spring-tracer-configuration-starter v0.1.0 spring-boot-autoconfigure (optional) v1.5.12.RELEASE spring-boot-configuration-processor (optional) v1.5.12.RELEASE All are licensed under Apache 2.0. APACHE 2.0 - See Appendix E
opentracing-contrib	OpenTracing Spring Jaeger Starter 3.1.1	APACHE 2.0 - See Appendix E Below are 4th party dependencies. ++++++ ++++++ 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. ++++++ ++++++ 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. ++++++ ++++++ 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. ++++++ ++++++ 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. ++++++ ++++++ 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.

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Provider	Component (s)	Licensing Information
Opentracing.io	OpenTracing Spring Jaeger Web Starter 2.0.3	<p>Public Licenses & Copyright Notices:</p> <p>Dependency Tree:</p> <pre> +- io.opentracing.contrib:opentracing-spring-jaeger-web-starter:jar:3.2.2:compile +- io.opentracing.contrib:opentracing-spring-jaeger-starter:jar:3.2.2:compile +- io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:jar:0.4.0:compile \- io.jaegertracing:jaeger-client:jar:1.1.0:compile +- io.jaegertracing:jaeger-thrift:jar:1.4.0:compile +- org.apache.thrift:libthrift:jar:0.13.0:compile \- javax.annotation:javax.annotation-api:jar:1.3.2:compile \- com.squareup.okhttp3:okhttp:jar:3.14.9:compile \- com.squareup.okio:okio:jar:1.17.2:compile +- io.jaegertracing:jaeger-core:jar:1.1.0:compile \- com.google.code.gson:gson:jar:2.8.6:compile \- io.jaegertracing:jaeger-tracerresolver:jar:1.1.0:compile \- io.opentracing.contrib:opentracing-spring-web-starter:jar:4.0.0:compile +- io.opentracing.contrib:opentracing-spring-web:jar:4.0.0:compile \- io.opentracing.contrib:opentracing-web-servlet-filter:jar:0.4.0:compile \- io.opentracing.contrib:opentracing-tracerresolver:jar:0.1.8:compile </pre> <p>License: Apache License Version 2.0, January 2004</p> <p>Artifacts:</p> <pre> io.opentracing.contrib.* io.jaegertracing.* com.squareup.* com.google.code.gson:gson org.apache.thrift.* </pre> <p>Licenses (Include all Licenses here. Do not provide links.):</p> <p>APACHE 2.0 - See Appendix E</p>

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

Provider	Component (s)	Licensing Information
		<pre> Copyrights: Artifact: 1. io.opentracing.contrib:opentracing-spring-jaeger-web-starter 2. io.opentracing.contrib:opentracing-spring-web-starter 3. io.opentracing.contrib:opentracing-spring-web 4. io.opentracing.contrib:opentracing-web-servlet-filter 5. io.opentracing.contrib:opentracing-tracerresolver 6. io.opentracing.contrib:opentracing-spring-tracer-configuration-starter 7. io.opentracing.contrib:opentracing-spring-jaeger-starter Copyright (Get copyright information from the source): ----- ----- ----- Artifact: 1. io.jaegertracing:jaeger-client 2. io.jaegertracing:jaeger-thrift 3. io.jaegertracing:jaeger-core 4. io.jaegertracing:jaeger-tracerresolver Copyright: /* * Copyright (c) 2018, The Jaeger Authors * * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except * in compliance with the License. You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software distributed under the License * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express * or implied. See the License for the specific language governing permissions and limitations under * the License. */ </pre>

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

Provider	Component (s)	Licensing Information
		<pre> ----- ----- ----- Artifact: org.apache.thrift:libthrift Copyright: Apache Thrift Copyright (C) 2006 - 2019, The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). ----- ----- ----- Artifact: 1. com.squareup.okhttp3:okhttp 2. com.squareup.okio:okio Copyright: /* * Copyright (C) 2020 Square, Inc. and others. * * 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. */ ----- ----- ----- Artifact: </pre>

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
Opentracing.io	OpenTracing Spring Jaeger Web Starter 2.0.3	<p>Copyright 2018-2019 The OpenTracing Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #1 com.squareup.okio:okio:1.13.0 FOURTH-PARTY DEPENDENCY #1 COPYRIGHT NOTICES Copyright (C) 2017 Square, Inc. APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #2 io.jaegertracing:jaeger-client:0.35.1 FOURTH-PARTY DEPENDENCY #2 COPYRIGHT NOTICES Copyright (c) 2018, The Jaeger Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #3 io.jaegertracing:jaeger-core:0.35.1 FOURTH-PARTY DEPENDENCY #4 io.jaegertracing:jaeger-thrift:0.35.1 FOURTH-PARTY DEPENDENCY #5 io.jaegertracing:jaeger-tracerresolver:0.35.1 COMMON COPYRIGHT NOTICES Copyright (c) 2017, Uber Technologies, Inc Copyright (c) 2018, The Jaeger Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-spring-jaeger-starter:2.0.3 FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.2.0 COMMON COPYRIGHT NOTICES Copyright 2018-2019 The OpenTracing Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #8 io.opentracing.contrib:opentracing-spring-web:2.1.0 FOURTH-PARTY DEPENDENCY #9 io.opentracing.contrib:opentracing-spring-web-starter:2.1.0 COMMON COPYRIGHT NOTICES Copyright 2016-2019 The OpenTracing Authors APACHE 2.0 - See Appendix E</p> <p>-----</p>

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

Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #10 io.opentracing.contrib:opentracing-tracerresolver:0.1.6</p> <p>FOURTH-PARTY DEPENDENCY #10 COPYRIGHT NOTICES Copyright 2017-2019 The OpenTracing Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #11 io.opentracing.contrib:opentracing-web-servlet-filter:0.3.0</p> <p>FOURTH-PARTY DEPENDENCY #11 COPYRIGHT NOTICES Copyright 2016-2018 The OpenTracing Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #12 io.opentracing:opentracing-api:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #13 io.opentracing:opentracing-noop:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #14 io.opentracing:opentracing-util:0.32.0</p> <p>COMMON COPYRIGHT NOTICES Copyright 2016-2019 The OpenTracing Authors APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #15 org.apache.thrift:libthrift:0.12.0</p> <p>FOURTH-PARTY DEPENDENCY #15 COPYRIGHT NOTICE Apache Thrift Copyright (C) 2006 - 2019, The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/).</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #16 org.springframework.boot:spring-boot:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #17 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>COMMON COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc.. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-aop:5.1.9.RELEASE</p>

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

Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #19 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #20 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #21 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #22 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #23 org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #1 com.squareup.okio:okio:1.13.0</p> <p>FOURTH-PARTY DEPENDENCY #2 io.jaegertracing:jaeger-client:0.35.1</p> <p>FOURTH-PARTY DEPENDENCY #3 io.jaegertracing:jaeger-core:0.35.1</p> <p>FOURTH-PARTY DEPENDENCY #4 io.jaegertracing:jaeger-thrift:0.35.1</p> <p>FOURTH-PARTY DEPENDENCY #5 io.jaegertracing:jaeger-tracerresolver:0.35.1</p> <p>FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-spring-jaeger-starter:2.0.3</p> <p>FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.2.0</p> <p>FOURTH-PARTY DEPENDENCY #8 io.opentracing.contrib:opentracing-spring-web:2.1.0</p> <p>FOURTH-PARTY DEPENDENCY #9 io.opentracing.contrib:opentracing-spring-web-starter:2.1.0</p> <p>FOURTH-PARTY DEPENDENCY #10 io.opentracing.contrib:opentracing-tracerresolver:0.1.6</p> <p>FOURTH-PARTY DEPENDENCY #11 io.opentracing.contrib:opentracing-web-servlet-filter:0.3.0</p> <p>FOURTH-PARTY DEPENDENCY #12 io.opentracing:opentracing-api:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #13 io.opentracing:opentracing-noop:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #14 io.opentracing:opentracing-util:0.32.0</p> <p>FOURTH-PARTY DEPENDENCY #15 org.apache.thrift:libthrift:0.12.0</p> <p>FOURTH-PARTY DEPENDENCY #16 org.springframework.boot:spring-boot:2.1.7.RELEASE</p>

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

Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #17 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #19 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #20 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #21 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #22 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #23 org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>COMMON LICENSE TEXT APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #24 org.slf4j:slf4j-api:1.7.26</p> <p>FOURTH-PARTY DEPENDENCY #24 COPYRIGHT NOTICES and LICENSE TEXT Copyright (c) 2004-2017 QOS.ch All rights reserved. MIT - See Appendix G</p>

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

Provider	Component (s)	Licensing Information
Opentracing.io	OpenTracing Spring Jaeger Web Starter 3.0.1	<p>TOP-LEVEL COPYRIGHT NOTICE for io.opentracing.contrib:opentracing-spring-web-starter:3.0.1 © 2019 Pivotal Software, Inc. All Rights Reserved /** * Copyright 2016-2019 The OpenTracing Authors * * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except * in compliance with the License. You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software distributed under the License * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express * or implied. See the License for the specific language governing permissions and limitations under * the License. */</p> <p>APACHE 2.0 - See Appendix E</p> <p>FOURTH-PARTY DEPENDENCY #1 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.3.1 FOURTH-PARTY DEPENDENCY #1 COPYRIGHT NOTICES /** * Copyright 2018-2019 The OpenTracing Authors * * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except * in compliance with the License. You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software distributed under the License * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express * or implied. See the License for the specific language governing permissions and limitations under * the License. */</p> <p>FOURTH-PARTY DEPENDENCY #2 io.opentracing.contrib:opentracing-spring-web:3.0.1</p> <p>FOURTH-PARTY DEPENDENCY #3 io.opentracing:opentracing-api:0.33.0 FOURTH-PARTY DEPENDENCY #4 io.opentracing:opentracing-noop:0.33.0 FOURTH-PARTY DEPENDENCY #5 io.opentracing:opentracing-util:0.33.0 COMMON Copyright /** * Copyright 2016-2019 The OpenTracing Authors * * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except * in compliance with the License. You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software distributed under the License * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express * or implied. See the License for the specific language governing permissions and limitations under * the License. */</p> <p>FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-tracerresolver:0.1.8 FOURTH-PARTY DEPENDENCY #6 Copyright Notice /* * Copyright 2017-2018 The OpenTracing Authors * *</p>

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

Provider	Component (s)	Licensing Information
		<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 * * 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>FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-web-servlet-filter:0.4.0 FOURTH-PARTY DEPENDENCY #7 Copyright Notice /* * Copyright 2016-2018 The OpenTracing Authors * * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except * in compliance with the License. You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software distributed under the License * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express * or implied. See the License for the specific language governing permissions and limitations under * the License. */</p> <p>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 Copyright /* * Copyright 2012-2019 the original author or authors. * * Licensed under the Apache License, Version 2.0 (the "License"); * you may not use this file except in compliance with the License. * You may obtain a copy of the License at * * https://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software * distributed under the License is distributed on an "AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. * See the License for the specific language governing permissions and * limitations under the License. */</p>

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

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>

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

Provider	Component (s)	Licensing Information
Opentracing.io	OpenTracing Spring Jaeger Web Starter 3.2.2	<p>Public Licenses and Copyright Notices:</p> <pre> +- io.opentracing.contrib:opentracing-spring-jaeger-web-starter:jar:3.2.2:compile +- io.opentracing.contrib:opentracing-spring-jaeger-starter:jar:3.2.2:compile +- io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:jar:0.4.0:compile \- io.jaegertracing:jaeger-client:jar:1.1.0:compile +- io.jaegertracing:jaeger-thrift:jar:1.4.0:compile +- org.apache.thrift:libthrift:jar:0.13.0:compile \- javax.annotation:javax.annotation-api:jar:1.3.2:compile \- \- \- com.squareup.okhttp3:okhttp:jar:3.14.9:compile \- com.squareup.okio:okio:jar:1.17.2:compile +- io.jaegertracing:jaeger-core:jar:1.1.0:compile \- \- com.google.code.gson:gson:jar:2.8.6:compile \- io.jaegertracing:jaeger-tracerresolver:jar:1.1.0:compile \- io.opentracing.contrib:opentracing-spring-web-starter:jar:4.0.0:compile +- io.opentracing.contrib:opentracing-spring-web:jar:4.0.0:compile \- io.opentracing.contrib:opentracing-web-servlet-filter:jar:0.4.0:compile \- io.opentracing.contrib:opentracing-tracerresolver:jar:0.1.8:compile </pre> <p>License: Apache License Version 2.0, January 2004</p> <p>Artifacts: io.opentracing.contrib.* io.jaegertracing.* com.squareup.* com.google.code.gson:gson org.apache.thrift.*</p> <p>APACHE 2.0 - See Appendix E</p> <p>Copyrights:</p> <ol style="list-style-type: none"> io.opentracing.contrib:opentracing-spring-jaeger-web-starter io.opentracing.contrib:opentracing-spring-web-starter io.opentracing.contrib:opentracing-spring-web io.opentracing.contrib:opentracing-web-servlet-filter io.opentracing.contrib:opentracing-tracerresolver

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

Provider	Component (s)	Licensing Information
		<p>----- -----</p> <p>Artifact: 1. com.google.code.gson:gson</p> <p>Copyright: /* * Copyright (C) 2018 The Gson 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. */</p>
opentracing-contrib	OpenTracing Spring Web 0.3.2	APACHE 2.0 - See Appendix E 4 th -party dependency: opentracing-web-servlet-filter v0.1.0 APACHE 2.0 - See Appendix E

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

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<p>-----</p> <p>FOURTH-PARTY DEPENDENCY #38 org.owasp:dependency-check-gradle:5.2.4 FOURTH-PARTY DEPENDENCY #38 Copyright Notice dependency-check-gradle Copyright (c) 2015 Wei Ma. All Rights Reserved. The licenses for the software listed below can be found in the META-INF/licenses/[dependency name]. This product includes software developed by The Apache Software Foundation (http://www.apache.org/). This product includes data from the Common Weakness Enumeration (CWE): http://cwe.mitre.org/ This product downloads and utilizes data from the National Vulnerability Database hosted by NIST: http://nvd.nist.gov/download.cfm</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #39 org.slf4j:jcl-over-slf4j:1.7.26 FOURTH-PARTY DEPENDENCY #40 org.slf4j:slf4j-api:1.7.26 Common Copyright and License MIT License - See Appendix G Copyright (c) 2004-2017 QOS.ch All rights reserved. MIT License - See Appendix G</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #41 org.sonatype.goodies:package-url-java:1.0.1 FOURTH-PARTY DEPENDENCY #41 Copyright Notice Copyright (c) 2018-present Sonatype, Inc. All rights reserved. This program is licensed to you under the Apache License Version 2.0, and you may not use this file except in compliance with the Apache License Version 2.0. You may obtain a copy of the Apache License Version 2.0 at http://www.apache.org/licenses/LICENSE-2.0. Unless required by applicable law or agreed to in writing, software distributed under the Apache License Version 2.0 is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License Version 2.0 for the specific language governing permissions and limitations there under.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #42 org.sonatype.ossindex:ossindex-service-api:1.2.0</p>

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

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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>

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

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		<p>To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.</p> <p>Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.</p> <p>Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.</p> <p>When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.</p>

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Provider	Component (s)	Licensing Information
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		<p>Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.</p> <p>1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.</p> <p>You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.</p> <p>2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:</p> <p>a) The modified work must itself be a software library.</p> <p>b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.</p> <p>c) You must cause the whole of the work to be licensed at no</p>

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		<p>charge to all third parties under the terms of this License.</p> <p>d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.</p> <p>(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)</p> <p>These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.</p> <p>Thus, it is not the intent of this section to claim rights or contest</p>

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

Provider	Component (s)	Licensing Information
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		<p>If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.</p> <p>5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.</p> <p>However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.</p> <p>Section 6 states terms for distribution of such executables.</p> <p>When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.</p> <p>Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.</p> <p>If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object</p>

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		<p>file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)</p> <p>Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.</p> <p>Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.</p> <p>6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.</p> <p>You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:</p> <p>a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that</p>

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Provider	Component (s)	Licensing Information
		<p>uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)</p> <p>b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.</p> <p>c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.</p> <p>d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.</p> <p>e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy. For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major</p>

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Provider	Component (s)	Licensing Information
		<p>components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.</p> <p>It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.</p> <p>7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:</p> <p>a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.</p> <p>b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.</p> <p>8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses</p>

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Spring IO	spring-cloud-kubernetes-fabric8-discovery 2.0.3 spring-cloud-kubernetes-fabric8-discovery 2.1.3	<p>TOP-LEVEL COPYRIGHT NOTICE for org.springframework.cloud:spring-cloud-kubernetes-fabric8-discovery</p> <p>© 2021 VMware, Inc. or its affiliates.</p> <p>-----separator-----</p> <p>TOP-LEVEL LICENSE TEXT for org.springframework.cloud:spring-cloud-kubernetes-fabric8-discovery:2.0.3</p> <p>APACHE 2.0 - See Appendix E</p> <p>-----separator-----</p> <p>FOURTH-PARTY DEPENDENCY #1 org.springframework.cloud:spring-cloud-kubernetes-fabric8-autoconfig 2.0.3</p> <p>FOURTH-PARTY DEPENDENCY #2 org.springframework.cloud:spring-cloud-context:3.0.3</p> <p>FOURTH-PARTY DEPENDENCY #3 org.springframework.cloud:spring-cloud-commons:3.0.3</p> <p>COMMON COPYRIGHT NOTICES</p> <p>© 2021 VMware, Inc. or its affiliates.</p> <p>COMMON LICENSE TEXT</p> <p>Same as TEXT mentioned under TOP-LEVEL License Text</p>

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		<p>io.fabric8:kubernetes-model-scheduling:4.13.3 FOURTH-PARTY DEPENDENCY #38 io.fabric8:kubernetes-model-settings:4.13.3 FOURTH-PARTY DEPENDENCY #39 io.fabric8:kubernetes-model-storageclass:4.13.3 FOURTH-PARTY DEPENDENCY #40 io.fabric8:kubernetes-model-node:4.13.3 FOURTH-PARTY DEPENDENCY #41 io.fabric8:kubernetes-model-core:4.13.3 FOURTH-PARTY DEPENDENCY #42 io.fabric8:kubernetes-model-common:4.13.3</p> <p>/** * Copyright (C) 2015 Red Hat, Inc. * * Licensed under the Apache License, Version 2.0 (the "License"); * you may not use this file except in compliance with the License. * You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * 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>-----separator-----</p> <p>FOURTH-PARTY DEPENDENCY #46 com.fasterxml.jackson:jackson-bom:2.12.3(*) FOURTH-PARTY DEPENDENCY #47 com.fasterxml.jackson.module:jackson-module- jaxb-annotations:2.11.2->2.12.3(*) FOURTH-PARTY DEPENDENCY #48 com.fasterxml.jackson.module:jackson-module- jaxb-annotations:2.11.2->2.12.3 FOURTH-PARTY DEPENDENCY #49 com.fasterxml.jackson.core:jackson- annotations:2.12.3(*) FOURTH-PARTY DEPENDENCY #50 com.fasterxml.jackson.core:jackson-core:2.12.3(*)</p>

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		<p>FOURTH-PARTY DEPENDENCY #51 com.fasterxml.jackson.core:jackson-databind:2.12.3(*)</p> <p>FOURTH-PARTY DEPENDENCY #52 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.11.2->2.12.3</p> <p>FOURTH-PARTY DEPENDENCY #53 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:2.11.2->2.12.3(*)</p> <p>Copyright © FasterXML. All rights reserved. COMMON LICENSE TEXT Same as TEXT mentioned under TOP-LEVEL License Text</p>

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<p>Marty Pitt, Dilip Krishnan, and Adrian Kelly</p>	<p>springfox-boot-starter 3.0.0</p>	<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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 ===== File 2 of 38: config.GUESS
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 ===== File 3 of 38: configure
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 ===== File 4 of 38: header
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 ===== File 5 of 38: build/shtool
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 ===== File 8 of 38: ext/calendar: dow.c
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 ===== File 12 of 38: ext/gd/libgd/README
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===== File 16 of 38: ext/json/JSON_parser.c
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===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c
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 ===== File 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 31 of 38: sapi/fpm/LICENSE
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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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expression-eval

<https://github.com/donmccurdy/expression-eval>

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jsep -

<https://github.com/soney/jsep>

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require-css

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Hammer.JS

<http://hammerjs.github.io/>

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Normalize.scss

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RequireJS i18n

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select2.js

<https://github.com/select2/select2>

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RequireJS text

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"Jakarta JSON Processing API" (jakarta.json:jakarta.json-api)

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