

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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ORACLE®

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Introduction

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Licensing Information

Refer to the table below for information on:

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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Certificate Management - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. 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. CM is an optional feature SKU. In case of Oracle NFs, CM can be ordered once per purchased entity (<i>per NF being activated</i>): In case of Data Director (DD), CM can be ordered once for the network covering the total traffic • CM for DD doesn't depend on the number of interfaces (or NFs) being deployed at a customer • Quantity of CM (for DD) should match the quantity of the Oracle DD SKU with highest quantity deployed at the customer CM is not applicable for Cloud Native Environment and other feature licenses, such as IWF and Advanced Networking CM is applicable for NB-IoT and RedCap deployments Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Certificate Management - 25K Active Subscribers: • 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, Security Edge Protection Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - 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, Binding Support Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers

Product	Sub product	Licensing Information
		• Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers • Oracle Communications Cloud Native Core, 5G Equipment Identity Register - 25K Active Subscribers • Network Analytics Data Director - Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Certificate Management – Non-standard metric (MPS): – Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed - Network-Wide Message per Second Perpetual – Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed - Network-Wide Message per Second Perpetual – Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed - Network-Wide Message per Second Perpetual – Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed - Network-Wide Message per Second Perpetual – Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed - Network-Wide Message per Second Perpetual
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Advanced Networking – 25K Active Subscribers Perpetual	Description: This sub-product adds the following optional features: • Multiple Remote IP and Port combinations • Dual Stack Support • Proactive Status updates on SEPP Prerequisites: The following license is a prerequisite to license and uses Oracle Communications Cloud Native Core, Advanced Networking - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Service Communications Proxy – 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Routing and Selection – 25K Active Subscribers Perpetual

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Advanced Routing – 25K Active Subscribers Perpetual	Description: This sub product adds the following optional features to the Oracle Communications Cloud Native Core for Service Communication Proxy (SCP) • Alternate routing with Dynamic Response Timeout by using 3GPP Timestamp headers • SCP Retry Timers based on Service Operation Granularity • SCP Response Timeout Value Enhancement Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, Advanced Routing – 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Service Communication 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	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network. This CNE SKU is an optional SKU only when the customer is purchasing the CNE from Oracle. Given license provide access to following capabilities: Cloud Native Environment (CNE), CNCF Tools Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Authentication Server Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - 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 • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers

Product	Sub product	Licensing Information
		• Oracle Communications Cloud Native Core, Unified Data Management - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, NWDAF, Device State – 25K Active Subscribers • Oracle Communications Cloud Native Core, NWDAF, Network State – 25K Active Subscribers • Oracle Communications Cloud Native Core, NWDAF, Service Experience – 25K Active Subscribers • Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed - Network-Wide Message per Second • Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed - Network-Wide Message per Second • Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed - Network-Wide Message per Second
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Advanced Cloud Native Environment – 25K Active Subscribers Perpetual	Description: Cloud Native Core, Advanced Cloud Native Environment offers the below capabilities • Traffic Segregation This is an optional SKU. Prerequisites: Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Authentication Server Function - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Authentication Server Function (AUSF) is responsible of the primary authentication and key agreement procedures carried out to enable mutual authentication between UE and network. It provides keying material that can be used between the UE and network in subsequently security procedures. This license is based on 25k active subscribers perpetual. Network Function license provides Console and Data Tier capabilities. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Authentication Server Function - 25K Active Subscribers: Oracle Communications Cloud Native Core, Unified Data Management - 25K Active Subscribers Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Authentication Server Function - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: Since Unified Data Management is a prerequisites for AUSF. Unified Data Management counts unique device identifiers that it has activated.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Interworking and Mediation Function - 25K Active Subscribers	Description: This subproduct adds the following optional features to the Oracle Communications Cloud Native Core for Service Communication Proxy (SCP) and Security Edge Protection Proxy (SEPP): • Message manipulation between HTTP <=> HTTP. Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, InterWorking and Mediation Function - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers Perpetual, or • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Perpetual

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Interworking and Mediation Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following optional features to the Oracle Communications Cloud Native Core for Service Communication Proxy (SCP) NB-IoT and Security Edge Protection Proxy (SEPP) NB-IoT: • Message manipulation between HTTP <=> HTTP. Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, InterWorking and Mediation Function for NB-IoT- 25K Active Subscribers: Perpetual • Oracle Communications Cloud Native Core, Service Communication Proxy NB-IoT - 25K Active Subscribers Perpetual, or • Oracle Communications Cloud Native Core, Security Edge Protection Proxy NB-IoT - 25K Active Subscribers Perpetual
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Signaling - 25K Active Subscribers	Description: This functionality provides the Right to Use the Cloud Native Diameter Routing Agent (cnDRA), Service Communication Proxy (SCP), Network Repository Function (NRF), and InterWorking and Mediation Function (IWF) NFs. It enables a smooth transition for operators from 4G to 5G over time. Network Function license provides Console and Data Tier capabilities. Prerequisites : None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Converged Signaling - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Cloud Native Environment for Reduced Capability devices provides tools and capabilities to run cloud native network functions in the network. This optional license provide access to following capabilities: • Cloud Native Environment (CNE) • CNCF Tools Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for Reduced Capability devices - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Interworking and Mediation Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This sub-product adds optional features to Binding Support Function. Prerequisites: The following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack B - 25K Active Subscribers: Oracle Communications Cloud Native Core, Binding Support Function - 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack F - 25K Active Subscribers	Description: This sub-product adds the following optional features to Binding Support Function. • Enhancement in BSF Error Response • Enhancement in BSF Error Response Logging Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack F - 25K Active Subscribers: Oracle Communications Cloud Native Core, Binding Support Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack G - per 25K Active Subscribers	Description: This sub-product adds the following optional features to Binding Support Function. • Populate config menu for DBTier Geo Replication Recovery (GRR) procedure. • SM-PCF and BSF stale binding manual detection tool • CnBSF-SMPCF and BSF stale binding detection audit, report, and recovery. • Compatibility with two webscale versions • Enhancement of performance to 54K Transactions Per Second (TPS) Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack G - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Binding Support Function – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy - 25K Active Subscribers	Description: This functionality provides the Right to Use the Cloud Native Policy and Charging Rules Function (cnPCRF) and Cloud Native Policy Control Function (PCF) NFs. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network. The Cloud Native Policy and Charging Rules Function (cnPCRF) allows the customer to support centralized policy management in their 4G core network. Overall this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Converged Policy - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: cnPCRF and PCF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack B - 25K Active Subscribers	Description: This sub-product adds optional features to Converged Policy. Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack B - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Converged Policy - 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 Note: This license is end of sale. The feature content has been moved to the base Network Function.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack E - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: - SM/AM/UE-PCF support of ME-XX string in server header from CHFAM-PCF capacity enhancement - Reduction of Ephemeral Storage and requirements on SM/AM/UE PCF Pods - Trigger notification during stale session cleanup - Compatibility with dual/multiple Openshift, K8s and Aspen Service Mesh versions Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack E - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Converged Policy - 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	Oracle Communications Cloud Native Core, Converged Policy Feature Pack F - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: • AM-PCF performance enhancement • Enhancement of SM-PCF Error Response • Enhancement of AM and UE-PCF Error Response Logging • Enhancement of SM-PCF Error Response Logging • Support of Policy Action to send Notify terminate on different policy condition-SM Policy Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack F - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Converged Policy - 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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack G - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: - DNN based traffic segregation towards UDR, CHF, BSF and internal microservices. Prerequisites: Any one of the following licenses is a prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack G - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Converged Policy - 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	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Binding Support Function. 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 Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack D - 25K Active Subscribers: Oracle Communications Cloud Native Core, Binding Support Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: AM/UE feature enhancements 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 Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack D - 25K Active Subscribers: Oracle Communications Cloud Native Core, Converged Policy - 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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy Control Function for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function for Reduced Capability devices allows the customer to support centralized policy management in their 5G core network. Prerequisites: Any one of the following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Policy Control Function for Reduced Capability devices - 25K Active Subscribers Perpetual Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy Control Function for Reduced Capability devices - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: PCF for Reduced Capability devices counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack A - 25K Active Subscribers	Description: This sub-product adds optional features to Converged Policy. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack A - 25K Active Subscribers: Oracle Communications Cloud Native Core, Converged Policy - 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 Note: This license is end of sale. The feature content has been moved to the base Network Function.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Repository Function for Reduced Capability devices supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function for Reduced Capability devices - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: Oracle Communications Cloud Native Core, Network Repository Function for Reduced Capability devices - 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: If SLF for Reduced Capability devices is deployed in addition to the NRF: the SLF for Reduced Capability devices counts unique device identifiers as it processes messages. If SLF for Reduced Capability devices is not deployed: the subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual	Description: This functionality provides the Right to Use the Cloud Native Policy and Charging Rules Function for NB-IoT (cnPCRF NB-IoT) and Cloud Native Policy Control Function for NB-IoT (PCF NB-IoT) NFs. The Policy Control Function for NB-IoT allows the customer to support centralized policy management in their 5G core network. The Cloud Native Policy and Charging Rules Function for NB-IoT (cnPCRF NB-IoT) allows the customer to support centralized policy management in their 4G core network. Overall, this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: cnPCRF NB-IoT and PCF NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function for Reduced Capability devices provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function for Reduced Capability devices - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Slice Selection Function for NB- IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Slice Selection Function for Reduced Capability devices - 25K Active Subscribers Perpetual, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Repository Function (NRF) supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: If SLF is deployed in addition to the NRF: the SLF counts unique device identifiers as it processes messages. If SLF is not deployed: the subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack B - 25K Active Subscribers	Description: This sub-product adds optional features to Network Repository Function. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack B - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack E - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Repository Function. • Compatibility with dual/multiple Openshift, K8s and Aspen Service Mesh versions • Error response enhancement Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack E - 25K Active Subscribers: Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack G - 25K Active	Description: This sub-product adds the following optional features to Network Repository Function. • NRF support for PFD call flow. • DNN NF profile attribute and discovery parameter support at NRF • NRF to support N-2 to N upgrade. • Populate config menu for DBTier Geo Replication Recovery (GRR) procedure. • NRF performance demo • Compatibility with two webscale versions Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack G - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function (NSSF) provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack E - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Slice Selection Function. - Enhanced construction of allowed NSSAI - NSSF SNMP MIB support - Schema to make upgrade seamless as part of authorizing availability update feature - Compatibility with dual/multiple Openshift, K8s and Aspen Service Mesh versions Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack E - 25K Active Subscribers: Oracle Communications Cloud Native Core, Network Slice Selection Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. This functionality provides the Right to Use the Cloud Native Core Policy and Charging Rules Function (cnPCRF). The cnPCRF allows the customer to support centralized policy management in their 4G core network. It includes PCRF functionality. Network Function license provides Console and Data Tier capabilities. Prerequisites: None. Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: cnPCRF counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain - 25K Active Subscribers	Description: Routing and Selection domain consists of six Cloud Native Core functions: Service Communication Proxy (SCP), Network Repository Function (NRF), Network Exposure Function (NEF), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP), and InterWorking and Mediation Function (IWF). Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Routing and Selection Domain - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Security Edge Protection Proxy (SEPP) is a nontransparent proxy that supports message filtering and policing on inter-PLMN control-plane interfaces and topology hiding for the PLMN network. A SEPP function should perform the firewall role for transactions between domains. Given that the SEPP is the point where integrity protection and encryption are applied, the SEPP has visibility into each aspect of a transaction. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: SEPP counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Security Edge Protection Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Security Edge Protection Proxy for Reduced Capability devices is a non-transparent proxy that supports message filtering and policing on inter-PLMN control-plane interfaces and topology hiding for the PLMN network. A SEPP for Reduced Capability devices 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 for Reduced Capability devices has visibility into each aspect of a transaction. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Security Edge Protection Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Security Edge Protection Proxy for Reduced Capability devices - 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: SEPP for Reduced Capability devices counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Service Communication Proxy (SCP) addresses introduction of 5G Service Based Architecture and the usage of HTTP/2 for signaling. Provides congestion control in cases of flooding and at the same time protect servers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/ Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: SCP counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack B - 25K Active Subscribers	Description: This sub-product adds optional features to Service Communication Proxy. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack B - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Service Communication Proxy for Reduced Capability devices addresses introduction of 5G Service Based Architecture and the usage of HTTP/2 for signaling. Provides congestion control in cases of flooding and at the same time protect servers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Service Communication Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: SCP for Reduced Capability devices counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack E - 25K Active Subscribers	Description: This sub-product adds the following optional features to Service Communication Proxy: - Enhancement to consider/differentiate between attempts made vs not made - Support for callflow optimization - Compatibility with dual/multiple Openshift, K8s and Aspen Service Mesh versions - Ignoring receipt of custom/unknown/unsupported services in audit or notification and then successfully process to the NF Profile Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack E - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack F - 25K Active Subscribers	Description: This sub-product adds the following optional features to Service Communication Proxy: • Enhancement of SCP Error Response • Resource efficiency enhancements • Enhancement of SCP Error Response Logging Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack F - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack G - 25K Active Subscribers	Description: This sub-product adds the following optional features to Service Communication Proxy: • Generic rule creation logic for new NF and NF services • Inter Region/Segment routing of notifications. • Compatibility with two webscale versions per release • Differential treatment for AR of local timeouts vs. received. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack G - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers	Description: This subproduct adds the following feature to the Oracle Communications Cloud Native Core. The Subscriber Location Function (SLF) is an entity of 5G network which it is used to identify a subscriber to a specific network function. This license is based on 25k active subscribers perpetual. Network Function license provides Console and Data Tier capabilities. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Subscriber Location Function - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: SLF counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following feature to the Oracle Communications Cloud Native Core. The Subscriber Location Function for Reduced Capability devices is an entity of 5G network which it is used to identify a subscriber to a specific network function. This license is based on 25k active subscribers. Prerequisites: One of the following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function for Reduced Capability devices - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Service Communication Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Repository Function for Reduced Capability devices - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Security Edge Protection Proxy for Reduced Capability devices - 25K Active Subscribers Perpetual Counting Mechanism: SLF for Reduced Capability devices counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack B – 25K Active Subscribers	Description: This sub-product adds optional features to Subscriber Location Function. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack B - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack E - 25K Active Subscribers	Description: This sub-product adds the following optional features to Subscriber Location Function: • Error response enhancement • Optimization/enhancement for audit tool design/enhancement • Compatibility with dual/multiple Openshift, K8s and Aspen Service Mesh versions • Support and enhancement for Aspen Service Mesh upgrade • Parallel execution testing for UDR-SLF (ATS) • MTAS to SLF provisioning gateway connectivity Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack E - 25K Active Subscribers: Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack F - 25K Active Subscribers	Description: This sub-product adds the following optional features to Subscriber Location Function: • Enhancement of SLF Error Response Logging Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack F - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack G - 25K Active Subscribers	Description: This sub-product adds the following optional features to Subscriber Location Function: • DnsStaticEntry support ASM helm charts • Populate config menu for DBTier Geo Replication Recovery (GRR) procedure. • Compatibility with two webscale versions • SLF capacity growth Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack G - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unified Data Repository (UDR) is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR are collectively known as application front ends. Network Function license provides Console and Data Tier capabilities. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: UDR counts unique device identifiers that it has activated
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unstructured Data Storage Function (UDSF) is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on 25k active subscribers perpetual. Network Function license provides Console and Data Tier capabilities. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function – 25K Active Subscribers: • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: Since UDR is a prerequisite for UDSF. UDR counts unique device identifiers that it has activated.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Automated Test Tools and Scripts Suite - Node Perpetual	Description: The sub-product adds the following features to the Oracle Communications Cloud Native Core Network Functions. The Automated Test Tools and Scripts Suite license provides tools and scripts for functional and light performance testing needs in lab environment and is licensed to only be used on Test/lab platforms. From a license perspective, this SKU is applicable only to Network Function SKUs and not to the features. <i>License quantity requirement is based on number of network functions (NFs) and number of system under testing (SUT). It can be calculated by multiplying number of network functions (NFs) and number of system under testing (SUT) .</i> Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Automated Test Tools and Scripts Suite – per Node. Any Oracle Communications Cloud Native Core Network Function, except: • Oracle Communications Cloud Native Core, Cloud Native Environment – 25K Active Subscribers • Oracle Communications Cloud Native Core, Interworking and Mediation Function – 25K Active Subscribers • Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - 25K Active Subscribers	Description: This sub-product adds optional features to Service Communication Proxy. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - 25K Active Subscribers	Description: This sub-product adds optional features to Subscriber Location Function. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - 25K Active Subscribers: Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - 25K Active Subscribers	Description: This sub-product adds optional features to Network Repository Function. Refer to the Cloud Native Core release notes for more details on feature content. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - 25K Active Subscribers: Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers Note: This license is end of sale. The feature content has been moved to the base Network Function.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack F - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Repository Function. - Retry alternate producer to support maximum diversity - Enhancement in NRF Error Response Logging - Support to send Server Header Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack F - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual provides tools and capabilities to run cloud native network functions in the network. This optional license provide access to following capabilities: • Cloud Native Environment (CNE) • CNCF Tools Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Binding Support Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Converged Policy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Exposure Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual • 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	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Exposure Function for NB-IoT (NEF for NB-IoT) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF for NB-IoT use-case. The NEF for NB-IoT Northbound interface supports the following procedures: • Procedures for Monitoring • Procedures for Device Triggering • Procedures for resource management of Background Data Transfer • Procedures for Communication Pattern Parameters Provisioning • Procedures for Packet Flow Description Management • Procedures for Traffic Influence Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Exposure Function for NB-IoT - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: NEF for NB-IoT counts unique device identifiers as it processes messages

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Repository Function for NB-IoT (NRF for NB-IoT) supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases. Prerequisites: None Entitled Products and Restricted Use Licenses: Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: If SLF for NB-IoT is deployed in addition to the NRF: the SLF for NB-IoT counts unique device identifiers as it processes messages. If SLF for NB-IoT is not deployed: the subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function for NB-IoT (NSSF for NB-IoT) provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: The subscriber count is based on the following ordered list of NFs: Ordered list of NFs: • SCP, if present • Else, a 3rd party database

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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following feature to the Oracle Communications Cloud Native Core. The Subscriber Location Function for NB-IoT (SLF NB-IoT) is an entity of 5G network which it is used to identify a subscriber to a specific network function. This license is based on 25k active subscribers perpetual. Prerequisites: One of the following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function for NB-IoT - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Network Repository Function for NB-IoT - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Security Edge Protection Proxy for NB-IoT - 25K Active Subscribers Perpetual Counting Mechanism: SLF NB-IoT counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unified Data Repository for NB-IoT (UDR NB-IoT) is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR NB-IoT are collectively known as application front ends. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: UDR NB-IoT counts unique device identifiers that it has activated

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unified Data Repository for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unified Data Repository for Reduced Capability devices is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR are collectively known as application front ends. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Unified Data Repository for Reduced Capability devices - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unified Data Repository for Reduced Capability devices - 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: UDR for Reduced Capability devices counts unique device identifiers that it has activated

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unstructured Data Storage Function for NB-IoT (UDSF NB-IoT) is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on 25K active subscribers perpetual. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Unified Data Repository for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: Since UDR NB-IoT is a prerequisite for UDSF NB-IoT. UDR NB-IoT counts unique device identifiers that it has activated.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unstructured Data Storage Function for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unstructured Data Storage Function for Reduced Capability devices is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on 25K active subscribers perpetual. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function for Reduced Capability devices - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Unstructured Data Storage Function for Reduced Capability devices - 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: UDR for Reduced Capability devices counts unique device identifiers that it has activated.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual	Description: Routing and Selection domain for NB-IoT consists of six Cloud Native Core functions: Service Communication Proxy for NB-IoT, Network Repository Function for NB-IoT, Network Exposure Function for NB-IoT, Network Slice Selection Function for NB-IoT, Security Edge Protection Proxy for NB-IoT, and Interworking and Mediation Function for NB-IoT. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain for Reduced Capability devices - 25K Active Subscribers Perpetual	Description: Routing and Selection domain for Reduced Capability devices consists of five Cloud Native Core functions: Service Communication Proxy for Reduced Capability devices, Network Repository Function for Reduced Capability devices, Network Exposure Function for Reduced Capability devices, Network Slice Selection Function for Reduced Capability devices, Security Edge Protection Proxy for Reduced Capability devices. Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Routing and Selection Domain for Reduced Capability devices - 25K Active Subscribers Perpetual Oracle Communications Cloud Native Core, Routing and Selection Domain for NB-IoT- 25K Active Subscribers Perpetual Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Routing and Selection Domain for Reduced Capability devices - 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.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This sub product adds the following features to the Oracle Communications Cloud Native Core. This functionality provides the Right to Use the Cloud Native Core Policy and Charging Rules Function for NB-IoT (cnPCRF NB-IoT). The cnPCRF NB-IoT allows the customer to support centralized policy management in their 4G core network. It includes PCRF NB-IoT functionality. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: cnPCRF NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, 5G Equipment Identity Register - 25K Active Subscribers	This subproduct adds the following features to the Oracle Communications Cloud Native Core – • 5G-EIR (Equipment Identity Register) is a network function (NF) as defined by the 3rd Generation Partnership Project (3GPP) • 5G-EIR allows the telecom operator to check the status of the mobile equipment Prerequisites: None. Entitled Products and Restricted Use Licenses: None Counting Mechanism: EIR counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Automated Lifecycle Management - 25K Active Subscribers	This subproduct adds the following features to the Oracle Communications Cloud Native Core: • Continuous Delivery Control Server(CDCS). • It automates the install and upgrade processes of 5G Core Network Functions, reduces inefficiency-errors, and thus generates savings on the operational expenditure for the customer. • It automates downloading, installation, and upgrade of the CNC 5G Network Functions. Prerequisites: The following license is required to use Oracle Communications Cloud Native Core, Automated Lifecycle Management: • Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers Also, any one of following licenses is required in addition to the above license: • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - 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, Service Communication Proxy Feature Pack D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Service Communication Proxy: - 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 Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack D - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Subscriber Location Function: - 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 Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack D - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Repository Function. - 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 Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack D - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Slice Selection Function. • 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 Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack D - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Slice Selection Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack F - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Slice Selection Function. • AMF white-listing for auto-populating of availability update • Authorization of availability update from AMF - Call flow optimization • Support of allowed NSSAI in parity with AMF solution - performance enhancement • Authorization of availability update from AMF – Performance enhancement Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack F - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack G - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Slice Selection Function. • Support to delete all slices in a TAI for a patch removal operation. • DNS SRV based NRF Selection for NSSF • Compatibility with two webscale versions Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack G - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, 5G Signaling Firewall - 25K Active Subscribers Perpetual	Description: This sub-product adds the following optional features: • Velocity check for Roaming subscribers • Cat1 Filter ingress traffic to allow the discovery services based on Target-NF-Type Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, 5G Signaling Firewall - 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers Perpetual

**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:

Reduced Capability Devices: Programs licensed under Reduced Capability Devices are specifically for processing traffic related to devices having reduced level of complexity (including, by way of example, industrial wireless sensors, video surveillance and wearables, etc.). Like NB-IoT, you may not use such programs for processing traffic related to wireless services, real-time services, broadband services, wireline telephone or data subscription services. Any use of eMBB devices instead requires the full 5G enhanced mobile broadband (eMBB) licenses.

 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](#).

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**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](#)

**Note:**

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3

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3.2.1 Oracle Communications Cloud Native Core, Cloud Native Environment 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Environment 25.1.100:

- APScheduler 3.10.4
- bind-utils 9.16.23-24
- cracklib-dicts 2.9.6-27
- croniter 3.0.3
- Flask 3.0.3
- GNU findutils 4.8.0-7
- gnu tar 1.34-7
- Injector 0.21.0
- iputils 20210202-9.0.1.el9
- jq 1.16-17
- kubectl 1.29.3-3
- OpenSSH 8.7p1-43.0.1
- OpenSSL 3.2.2-6.0.1.el9_5
- Paramiko 3.4.1
- Python 3.12.5-2.el9_5.1
- Python3.12-pip 23.2.1-4.el9
- python-json-logger 3.3.0
- requests 2.32.3
- Schedule 1.2.0
- setuptools 68.2.2-4.el9
- SQLAlchemy 2.0.32
- tcpdump 4.99.0-9
- UnZip 6.0-57.0.1
- waitress 3.0.1

3.2.2 Automated Test Suite 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Automated Test Suite (ATS) 25.1.100:

- Apache HTTP Server 2.4.62
- behave 1.2.6
- Blue Ocean 1.27.14
- colorlog 6.8.2
- Flask 3.0.3

- geckodriver 0.35.0
- httpx 0.27.2
- Jenkins 2.486
- Jenkins active choices plug-in 2.8.3
- JMeter 5.6.3
- jmeter-http2-plugin 2.0.5
- jsonmerge 1.9.2
- Kubernetes Client Java 6.12.1
- Kubernetes Python Client 31.0.0
- Login Theme Plugin for Jenkins 238.va_647346d317b_
- Matrix Authorization Strategy Plug-in 3.2.3
- MySQL Connector/Python 9.1.0
- OCI SDK for Python 2.135.2
- Opensearch Python Client 2.7.1
- Paramiko 3.5.0
- Pipeline Plugin 600.vb_57cdd26fdd7
- pipeline-stage-view 2.34
- PyYAML 6.0.2
- Quart 0.19.6
- regex 2024.9.11
- requests 2.32.3
- Selenium - Python 4.26.1
- sidebar link 2.4.1
- Simple Theme Plugin for Jenkins 196.v96d9592f4efa_
- test-results-analyzer-plugin 0.4.1
- TinyDB 4.8.2

3.2.3 Oracle Communications Cloud Native Core, Binding Support Function

25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Binding Support Function 25.1.100:

- @hapi/boom 10.0.1
- @hapi/inert 7.1.0
- @hapi/wreck 18.0.2
- @opentelemetry/api 1.6.0
- @opentelemetry/auto-instrumentations-node 0.39.2
- bcpx-jdk18on 1.78.1
- bind-utils 9.11.36-11

- Blockly 9.3.3
- brave-core 6.0.3
- bucket4j 8.10.1
- caffeine 3.1.8
- coherence-spring-boot-starter 4.0.0
- Commons Codec 1.16.0
- Commons CSV 1.12.0
- Commons IO 2.15.1
- Commons Lang 3.13.0
- Commons Pool 2.12.0
- Commons Validator 1.9.0
- date-format 4.0.14
- deep-diff 1.0.2
- dnsjava 3.6.0
- dotenv 16.4.5
- Equals Verifier 3.14.2
- Expiring Map 0.5.11
- fastjson 2.0.45
- Fastjson2 2.0.38
- file-saver 2.0.5
- Flask 3.0.0
- GSON 2.11.0
- Guava 33.0.0
- gunicorn 22.0.0
- hapi 21.3.10
- HikariCP 5.1.0
- HttpComponents Client 5.3.1
- HttpComponents HttpClient 4.5.14
- HttpCore NIO 4.4.16
- httpcore5 5.2.3
- influxdb-java 2.24
- ipaddr.js 2.2.0
- 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) 2.1.3
- Jakarta Annotations API 3.0.0-M1
- Jakarta Bean Validation API 3.1.0-M1
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta Servlet 6.1.0-M1
- Jakarta XML Binding API (JAXB) 4.0.2
- Jakarta XML Binding RI (JAXB) 4.0.5
- jakarta.inject-api 2.0.1
- jakarta.mail-api 2.1.2
- jakarta.xml.ws-api 4.0.2
- JavaScript Extension Toolkit (JET) 17.1.0
- Javassist 3.30.2-GA
- jaxb-core 4.0.5
- jaxb-impl 4.0.5
- jersey-client 3.1.9
- jersey-common 3.1.9
- jersey-hk2 3.1.9
- jersey-media-json-jackson 3.1.9
- jersey-media-multipart 3.1.9
- jersey-server 3.1.9
- Jetty 11.0.24
- Jetty ReactiveStream HttpClient 3.0.16
- jetty-jakarta-servlet-api 5.0.2
- Jinja2 3.1.4
- jjwt-api 0.12.3
- JLDAP-Policy 2008/3/1
- Jose4j 0.9.6
- JQuery 3.7.1
- jSMPP 3.0.1
- JSON in Java 20231013
- jsonEditor 9.10.2
- json-path 2.9.0
- json-schema-validator 1.0.88
- json-smart 2.5.1
- json-smart 2.5.2
- JSZip 3.10.1
- Kubernetes Java Client 21.0.1
- Kubernetes Python Client 29.0.0

- LMAX Disruptor 3.4.2
- Log4j-API 2.24.0
- log4j-core 2.24.0
- log4j-slf4j-impl 2.24.0
- log4j-web 2.24.0
- Logback 1.5.8
- Lombok 1.18.28
- metrics-core 4.2.21
- micrometer-registry-prometheus 1.11.5
- mkdirp 2.1.6
- Mocha 10.8.2
- Moment.js 2.30.1
- Node.js 20.16.0-1.module+el8.10.0+90391+162fb07b
- NumPy 1.26.0
- OCI SDK for Python 2.138.1
- okhttp-logging-interceptor 4.12.0
- Okio 3.4.0
- opentelemetry-javaagent 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- protobuf-java 3.25.5
- python-mysqldb 2.2.1
- PyYAML 6.0.2
- reactor-core 3.5.14
- regex 2023.6.3
- requests 2.32.2
- simpleclient-servlet 0.16.0
- slf4j-api 2.0.16
- Spring Retry 2.0.4
- spring-kafka 3.0.13
- TypeScript 5.6.3
- winston 3.17.0
- XML Security for Java 3.0.3
- xnio-api 3.8.14.Final
- Zipkin 2.24.3
- zipkin-reporter-java 2.16.4

3.2.4 Oracle Communications Cloud Native Core, cnDBTier 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, cnDBTier 25.1.100:

- APScheduler 3.10.4
- bind-utils 9.16.23-24
- cracklib-dicts 2.9.6-27
- croniter 3.0.3
- Flask 3.0.3
- GNU findutils 4.8.0-7
- gnu tar 1.34-7
- Injector 0.21.0
- iputils 20210202-9.0.1.el9
- jq 1.16-17
- kubectl 1.29.3-3
- OpenSSH 8.7p1-43.0.1
- OpenSSL 3.2.2-6.0.1.el9_5
- Paramiko 3.4.1
- Python 3.12.5-2.el9_5.1
- Python3.12-pip 23.2.1-4.el9
- python-json-logger 3.3.0
- requests 2.32.3
- Schedule 1.2.0
- setuptools 68.2.2-4.el9
- SQLAlchemy 2.0.32
- tcpdump 4.99.0-9
- UnZip 6.0-57.0.1
- waitress 3.0.1

3.2.5 Oracle Communications Cloud Native Core, Certificate Management 25.1.100

The following is the list of components for Oracle Communications Cloud Native Core, Certificate Management 25.1.100:

- bcpxix-jdk18on 1.78.1
- bind-utils 9.16.23-24
- Commons Compress 1.27.1

- curl 7.76.1-31.el9
- gnu tar 1.34-7
- Guava 33.0.0
- iproute 6.2.0-6.el9_4
- iputils 20210202-10.0.1.el9_5
- Jackson Databind 2.16.2
- jackson-datatype-joda 2.16.1
- jackson-module-afterburner 2.16.1
- jersey-media-json-jackson 3.1.9
- Jetty ReactiveStream HttpClient 4.0.5
- Jose4j 0.9.6
- Kubernetes Client Java 6.12.1
- Kubernetes Java Client 19.0.0
- Kubernetes Java Client 21.0.1
- Log4j-API 2.24.0
- log4j-core 2.22.1
- log4j-core 2.24.0
- log4j-jul 2.22.1
- net-tools 2.0-0.64.20160912git.el9
- Okio 3.4.0
- OpenSSL 3.4.1
- protobuf-java 3.25.5
- reactor-core 3.6.7
- tcpdump 4.99.0-9

3.2.6 Oracle Communications Cloud Native Configuration Console 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Configuration Console 25.1.100:

- bind-utils 9.16.23-24
- Blockly 9.3.3
- Bouncy Castle Crypto API 1.78.1
- bucket4j 8.10.0
- Commons Codec 1.16.0
- Commons Compress 1.27.1
- Commons IO 2.15.1
- curl 7.76.1-31.el9
- file-saver 2.0.5

- gnu tar 1.34-7
- GSON 2.11.0
- Guava 32.1.2
- Guava 33.0.0
- HikariCP 5.1.0
- HttpComponents Client 5.3.1
- iproute 6.2.0-6.el9_4
- iputils 20210202-10.0.1.el9_5
- Jackson Databind 2.16.2
- jackson-datatype-joda 2.16.1
- jackson-datatype-joda 2.15.3
- jackson-module-afterburner 2.16.1
- JavaScript Extension Toolkit (JET) 17.1.0
- jersey-client 3.1.9
- jersey-common 3.1.9
- Jetty 11.0.24
- Jetty ReactiveStream HttpClient 4.0.5
- Jetty ReactiveStream HttpClient 3.0.16
- jjwt-api 0.12.6
- jjwt-impl 0.12.6
- jjwt-jackson 0.12.6
- Jose4j 0.9.6
- json-path 2.9.0
- json-schema-validator 1.0.88
- json-smart 2.5.1
- JSZip 3.10.1
- Keycloak 26.0.5
- Kubernetes Client Java 6.12.1
- Kubernetes Java Client 19.0.0
- Kubernetes Java Client 21.0.1
- Log4j-API 2.24.0
- log4j-core 2.24.0
- log4j-slf4j-impl 2.24.0
- log4j-web 2.24.0
- Lombok 1.18.28
- micrometer-registry-prometheus 1.11.10
- micrometer-registry-prometheus 1.11.5
- net-tools 2.0-0.64.20160912git.el9

- Nimbus JOSE+JWT 9.40
- Okio 3.4.0
- okio-jvm 3.4.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- protobuf-java 3.25.5
- reactor-core 3.6.7
- snappy-java 1.1.10.5
- Spring Retry 2.0.4
- spring-cloud-starter-bootstrap 4.0.3
- springdoc-openapi-starter-webmvc-ui 2.1.0
- tcpdump 4.99.0-9
- undertow-core 2.3.18

3.2.7 Oracle Communications Cloud Native Core, Network Repository Function 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Repository Function 25.1.100:

- Bouncy Castle Crypto API 1.78.1
- bucket4j 8.10.0
- Commons Compress 1.27.1
- Commons IO 2.17.0
- dnsjava 3.6.0
- Eclipse Parsson 1.1.5
- Flask 3.0.0
- Guava 33.0.0
- gunicorn 22.0.0
- httpx 0.27.0
- ipaddress 5.5.1
- Jackson Databind 2.16.2
- jakarta.json-api 2.1.2
- Jetty 11.0.24
- Jetty ReactiveStream HttpClient 3.0.16
- jjwt-api 0.12.5
- jjwt-impl 0.12.5
- jjwt-jackson 0.12.5
- Jose4j 0.9.6

- json-path 2.9.0
- json-schema-validator 1.5.0
- Kubernetes Java Client 19.0.0
- Kubernetes Python Client 29.0.0
- log4j-layout-template-json 2.24.1
- micrometer-registry-prometheus 1.11.10
- Nimbus JOSE+JWT 9.40
- NumPy 1.26.0
- OCI SDK for Python 2.138.1
- Okio 3.4.0
- okio-jvm 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 3.25.5
- python-mysqldb 2.2.1
- PyYAML 6.0.2
- requests 2.32.2
- snappy-java 1.1.10.5
- Spring Retry 2.0.4
- undertow-core 2.3.18.Final

3.2.8 Oracle Communications Cloud Native Core, Network Slice Selection Function 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Slice Selection Function 25.1.100:

- bcpx-jdk18on 1.76
- bucket4j 8.10.0
- Commons Compress 1.27.1
- Commons IO 2.17.0
- dnsjava 3.6.0
- Guava 32.1.2
- Jackson Databind 2.16.2
- Jackson Databind 2.15.2
- Jetty 11.0.24
- Jetty ReactiveStream HttpClient 3.0.16

- jjwt-api 0.12.3
- jjwt-impl 0.12.3
- jjwt-jackson 0.12.3
- Jose4j 0.9.6
- json-schema-validator 1.5.0
- Kubernetes Java Client 19.0.0
- micrometer-registry-prometheus 1.11.10
- opentelemetry-exporter-jaeger-thrift 1.25.0
- spring-kafka 3.0.13
- undertow-core 2.3.16.Final
- xnio-api 3.8.14.Final

3.2.9 Oracle Communications Cloud Native Core, Service Communication Proxy 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Service Communication Proxy 25.1.100:

- bcpx-jdk18on 1.78.1
- bucket4j 8.10.1
- Commons Compress 1.27.1
- curl 7.76.1-31.el9
- dnsjava 3.6.0
- drools-decisiontables 8.44.0.Final
- Drools-mvel 8.44.0.Final
- gnu tar 1.34-7
- GSON 2.11.0
- ipaddress 5.5.0
- iproute 6.2.0-6.el9_4
- iputils 20210202-10.0.1.el9_5
- Jackson Databind 2.16.1
- jackson-dataformat-yaml 2.16.1
- jackson-datatype-joda 2.16.1
- jackson-module-afterburner 2.16.1
- Jakarta Bean Validation API 3.1.0-M1
- Jakarta Servlet 6.1.0-M2
- Jetty 11.0.24
- Jetty ReactiveStream HttpClient 3.0.16
- jjwt-api 0.12.3
- jjwt-impl 0.12.3

- jjwt-jackson 0.12.3
- Jose4j 0.9.6
- JSON in Java 20240303
- json-path 2.9.0
- Kubernetes Client Java 6.12.1
- Kubernetes Java Client 21.0.1
- Log4j-API 2.22.1
- Log4j-API 2.24.0
- log4j-core 2.24.1
- log4j-core 2.22.1
- log4j-core 2.24.0
- log4j-layout-template-json 2.21.1
- Lombok 1.18.28
- micrometer-registry-prometheus 1.11.10
- net-tools 2.0-0.64.20160912git.el9
- Okio 3.4.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- protobuf-java 3.25.5
- Reactor Kafka 1.3.22
- reactor-core 3.5.14
- Spring Retry 2.0.7
- springdoc-openapi-starter-webmvc-ui 2.6.0
- springdoc-openapi-ui 1.8.0
- tcpdump 4.99.0-9
- xnio-api 3.8.14.Final
- zjsonpatch 0.4.16

3.2.10 Oracle Communications Cloud Native Core, Security Edge Protection Proxy 25.1.100 Components

The following is the list of components for Oracle Communications Cloud Native Core, Security Edge Protection Proxy 25.1.100:

- bcpx-jdk18on 1.78.1
- bind-utils 9.16.23-24
- Bouncy Castle Crypto API 1.78.1
- bucket4j 8.10.0
- Commons Codec 1.16.0

- Commons Compress 1.27.1
- Commons IO 2.17.0
- Commons Lang 3.13.0
- curl 7.76.1-31.el9
- dnsjava 3.6.0
- drools-decisiontables 8.44.0.Final
- Drools-mvel 8.44.0.Final
- Flask 3.0.0
- gnu tar 1.34-7
- GSON 2.11.0
- Guava 32.1.2
- Guava 33.0.0
- gunicorn 22.0.0
- httpx 0.27.0
- iproute 6.2.0-6.el9_4
- iputils 20210202-10.0.1.el9_5
- Jackson Databind 2.16.1
- Jackson Databind 2.16.2
- jackson-datatype-joda 2.16.1
- jackson-datatype-joda 2.15.3
- jackson-module-afterburner 2.16.1
- Jakarta Activation API (JAF) 2.1.3
- Jakarta Bean Validation API 3.1.0-M1
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta Servlet 6.1.0-M2
- Jakarta XML Binding API (JAXB) 4.0.2
- jersey-hk2 3.1.9
- jersey-media-json-jackson 3.1.9
- Jetty 11.0.24
- Jetty ReactiveStream HttpClient 3.0.16
- Jetty ReactiveStream HttpClient 4.0.5
- jjwt-api 0.12.6
- jjwt-impl 0.12.6
- jjwt-jackson 0.12.6
- Jose4j 0.9.6
- JSON in Java 20240303
- json-path 2.9.0
- json-schema-validator 1.5.0

- Kubernetes Client Java 6.12.1
- Kubernetes Java Client 19.0.0
- Kubernetes Java Client 21.0.1
- Kubernetes Python Client 29.0.0
- LMAX Disruptor 3.4.2
- Log4j-API 2.24.0
- log4j-core 2.24.1
- log4j-core 2.24.0
- log4j-layout-template-json 2.21.1
- log4j-slf4j-impl 2.24.0
- log4j-web 2.24.0
- Lombok 1.18.28
- micrometer-registry-prometheus 1.11.10
- micrometer-registry-prometheus 1.11.5
- net-tools 2.0-0.64.20160912git.el9
- Nimbus JOSE+JWT 9.40
- NumPy 1.26.0
- OCI SDK for Python 2.138.1
- Okio 3.4.0
- okio-jvm 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 3.25.5
- python-mysqldb 2.2.1
- PyYAML 6.0.1
- PyYAML 6.0.2
- reactor-core 3.5.11
- reactor-core 3.6.7
- reactor-core 3.5.14
- reactor-test 3.5.18
- requests 2.32.2
- snappy-java 1.1.10.5
- spring-cloud-starter-bootstrap 4.0.3
- springdoc-openapi-starter-webmvc-ui 2.6.0
- springdoc-openapi-starter-webmvc-ui 2.1.0

- spring-kafka 3.0.13
- tcpdump 4.99.0-9
- undertow-core 2.3.18.Final

3.2.11 Oracle Communications Cloud Native Core, Unified Data Repository 24.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Unified Data Repository 24.3.0:

- bcpkix-jdk18on 1.78.1
- bind-utils 9.11.36-11
- caffeine 3.1.8
- coherence-spring-boot-starter 4.0.0
- Commons Codec 1.16.0
- Commons Compress 1.26.0
- Commons IO 2.13.0
- Commons Text 1.12.0
- CXF 4.0.5
- DNSjava 3.6.0
- Eclipse Parsson 1.1.5
- Flask 3.0.0
- gnu tar 1.30-9
- GSON 2.11.0
- Guava 33.0.0
- gunicorn 22.0.0
- HttpComponents Client 5.3.1
- Jackson Core 2.15.3
- Jackson Databind 2.15.3
- jackson-datatype-joda 2.16.1
- jackson-datatype-joda 2.15.3
- jackson-module-afterburner 2.16.1
- Jakarta Annotations API 3.0.0-M1
- Jakarta Bean Validation API 3.1.0-M1
- Jakarta XML Binding API (JAXB) 4.0.1
- jakarta.json-api 2.1.2
- jersey-client 3.1.6
- jersey-common 3.1.6
- jersey-hk2 3.1.6
- Jetty 11.0.20

- Jetty ReactiveStream HttpClient 3.0.9
- Jetty ReactiveStream HttpClient 4.0.5
- Jinja2 3.1.4
- jjwt-api 0.12.3
- jjwt-impl 0.12.3
- jjwt-jackson 0.12.3
- Jose4j 0.9.4
- JSON in Java 20231013
- JSON Schema 1.14.4
- json-schema-validator 1.0.88
- Kubernetes Client Java 6.12.1
- Kubernetes Java Client 19.0.0
- Kubernetes Python Client 29.0.0
- Log4j-API 2.22.1
- Log4j-API 2.21.1
- log4j-core 2.22.1
- log4j-core 2.21.1
- log4j-layout-template-json 2.21.1
- log4j-slf4j-impl 2.20.0
- log4j-web 2.20.0
- Lombok 1.18.32
- micrometer-registry-prometheus 1.11.10
- net-tools 2.0-0.62.20160912git
- 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
- reactor-core 3.5.14
- reactor-core 3.6.7
- requests 2.32.2
- spring-integration-file 6.1.4
- spring-integration-core 6.1.4
- undertow-core 2.3.16.Final

3.2.12 Oracle Communications Cloud Native Core, Licensing Information

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

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

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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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Project Reactor	reactor-netty-http 1.0.24 reactor-netty-http 1.1.15	Apache 2.0 See Appendix E
fabric8io	Kubernetes Client Java 6.1.1 Kubernetes Client Java 6.12.1 Kubernetes Client Java 18.0.1	Apache 2.0 See Appendix E

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		* org.eclipse.jetty.orbit:javax.mail.glassfish ----- Oracle The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html * javax.servlet:javax.servlet-api * javax.annotation:javax.annotation-api * javax.transaction:javax.transaction-api * javax.websocket:javax.websocket-api ----- Oracle OpenJDK If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected. * java.sun.security.ssl 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 ----- 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 org.ow2.asm:asm ----- Apache The following artifacts are ASL2 licensed. org.apache.taglibs:taglibs-standard-spec 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. 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

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Provider	Component (s)	Licensing Information
		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 https://github.com/apache/httpcomponents-client/blob/4.5.5/LICENSE.txt --- org.openjdk.jmh 1.19 No Copyright info LICENSE: GNU GPL v2.0 https://github.com/infynyx/openjdk-jmh/blob/d5660790826189b3515083a270775f77a6378efc/jmh-core-it/LICENSE --- net.sf.ehcache » ehcache 2.10.4 COPYRIGHT: (c) © Terracotta, Inc

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Eli Grey	file-saver 2.0.5	https://github.com/eligrey/FileSaver.js/blob/master/LICENSE.md -----separator----- MIT License See Appendix G -----separator-----
The Pallets Team	Flask 2.0.2 Flask 2.2.3 Flask 2.3.2	Top Level Component: Flask ----- Top level Copyright: ----- Copyright 2010 Pallets ----- Top level component license: BSD-3-clause ----- License Text: ----- See Appendix M ----- DEPENDENCIES ----- 1. click: Copyright 2014 Pallets 2. itsdangerous: Copyright 2011 Pallets 3. Jinja2: Copyright 2007 Pallets 4. MarkupSafe: Copyright 2010 Pallets 5. Werkzeug: Copyright 2007 Pallets All 5 dependencies using the same license as the top component: BSD-3-clause. See license text above.

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Provider	Component (s)	Licensing Information
Mozilla	geckodriver 0.32.0 geckodriver 0.34.0	Mozilla Public License, version 2.0 - See Appendix R
Free Software Foundation	gnu tar 1.30-9 gnu tar 1.30-6 gnu tar 1.34-6 GNU findutils 4.8.0-6.el9 gzip 1.12-1.el9	GNU GENERAL PUBLIC LICENSE 3.0 - See Appendix E

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Google	GSON	Apache 2.0 Apache License, version 2.0 (Apache 2.0)

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Provider	Component (s)	Licensing Information
Benoît Chesneau	gunicorn 21.2.0 gunicorn 22.0.0	Gunicorn 2009-2018 (c) Benoît Chesneau <benoitc@e-engura.org> 2009-2015 (c) Paul J. Davis <paul.joseph.davis@gmail.com> Gunicorn is released under the MIT license. See the LICENSE file for the complete license. gunicorn.logging_config ----- Copyright 2001-2005 by Vinay Sajip. All Rights Reserved. Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Vinay Sajip not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDINGALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. gunicorn.debug ----- Based on eventlet.debug module under MIT license: Unless otherwise noted, the files in Eventlet are under the following MIT License See Appendix G gunicorn.reloaders ----- Based on greyns.reloaders module under MIT license: 2010 (c) Meebo, Inc. MIT License See Appendix G doc/sitemap_gen.py ----- Under BSD License : Copyright (c) 2004, 2005, Google Inc.

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Willy Tarreau	HAproxy 2.3.10	HAPROXY's license - 2006/06/15 Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols. Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users. For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition. The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem. Of course, users are strongly encouraged to continue the work under GPL as long as possible, since this license has allowed useful enhancements, contributions and fixes from talented people around the world. Due to the incompatibility between the GPL and the OpenSSL licence, you must apply the GPL/LGPL licence with the following exception: This program is released under the GPL with the additional exemption that compiling, linking, and/or using OpenSSL is allowed. The text of the licenses lies in the "doc" directory. All the files provided in this package are covered by the GPL unless expressly stated otherwise in them. Every patch or contribution provided by external people will by default comply with the license of the files it affects, or be rejected. Willy Tarreau - w@1wt.eu . . . -----separator----- GNU General Public License, Version 2 (GPL v2) - See Appendix A -----separator----- GNU General Public License, Version 2 (GPL-2.1) - See Appendix B ----- (separator)----- . . . ----- Copyright notices ----- Copyright 2000-2010 Willy Tarreau Copyright (C) 2019 HAProxy Technologies, Christopher Faulet Copyright 2019 HAProxy Technologies, Frédéric Lécaille Copyright 2012 Exceliance, David Du Colombier Copyright 2018 Joyent, Inc. Copyright 2014 Baptiste Assmann Copyright (C) 2020 HAProxy Technologies, William Lallemand Copyright 2020 HAProxy Technologies, Emeric Brun Copyright 2009-2010 Krzysztof Piotr Oledzki Copyright 2019 HAProxy Technologies, Olivier Houchard Copyright (C) 2009-2015, Linus Torvalds and others. Copyright 2021 Tim Duesterhus Copyright (c) 2018-2020 Cesanta Software Limited Copyright 2015 Horms Solutions Ltd, Simon Horman

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Zaxxer.com	HikariCP 5.1.0	Copyright (C) 2013, 2014 Brett Wooldridge APACHE 2.0 - See Appendix E Below 4th party dependency ----- SLF4j 1.7.25, MIT License See Appendix G SLF4J source code and binaries are distributed under the MIT license. Copyright (c) 2004-2013 QOS.ch All rights reserved. MIT - See Appendix G

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Apache	HttpClient 4.5.10	Apache HttpComponents HttpClient 4.5.8 Copyright 1999-2019 The Apache Software Foundation APACHE 2.0 - See Appendix E ----- Modules: ***** httpclient httpmime fluent-hc httpclient-cache httpclient-win httpclient-osgi ----- 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. ===== 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. The product includes software from the Apache Commons Lang project, under the Apache License 2.0 (see: org.ehcache.impl.internal.classes.commonslang)

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Provider	Component (s)	Licensing Information
		===== == Fourth Party Dependency Name : slf4j-jcl Fourth Party Dependency License : MIT Fourth Party Dependency Copyright : Copyright Copyright (c) 2004-2017 QOS.ch All rights reserved. MIT - See Appendix G Fourth Party Dependency Name : spymemcached Fourth Party Dependency License : MIT Fourth Party Dependency Copyright : Copyright Copyright (c) 2006-2009 Dustin Sallings Copyright (c) 2009-2011 Couchbase, Inc. ===== Fourth Party Dependency Name : jna Fourth Party Dependency License : Apache 2.0 Fourth Party Dependency Copyright : Copyright Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. ===== Fourth Party Dependency Name : docbook-xml Fourth Party Dependency License : Apache 2.0 Fourth Party Dependency Copyright : Copyright Copyright 2015 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

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Provider	Component (s)	Licensing Information
Apache	HttpClient 4.5.12	Apache HttpComponents HttpClient 4.5.10 Copyright 1999-2019 The Apache Software Foundation APACHE 2.0 - See Appendix E ----- Modules: ***** httpclient httpmime fluent-hc httpclient-cache httpclient-win httpclient-osgi ----- 4P Dependencies: commons-codec » commons-codec 1.11, commons-codec-1.12.jar COPYRIGHT: Copyright 2002-2017 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/commons-codec-1.11/LICENSE.txt commons-logging » commons-logging 1.2 COPYRIGHT: Copyright 2003-2014 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt org.apache.httpcomponents » httpcore 4.4.11 COPYRIGHT: Copyright 2005-2019 The Apache Software Foundation LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-core/blob/4.4.11/LICENSE.txt commons-lang3-3.9.jar 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. ===== 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. The product includes software from the Apache Commons Lang project, under the Apache License 2.0 (see: org.ehcache.impl.internal.classes.commonslang) ===== ==

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Provider	Component (s)	Licensing Information
		Fourth Party Dependency Name : slf4j-jcl Fourth Party Dependency License : MIT Fourth Party Dependency Copyright : Copyright Copyright (c) 2004-2017 QOS.ch All rights reserved. MIT - See Appendix G Fourth Party Dependency Name : spymemcached Fourth Party Dependency License : MIT Fourth Party Dependency Copyright : Copyright Copyright (c) 2006-2009 Dustin Sallings Copyright (c) 2009-2011 Couchbase, Inc. ===== Fourth Party Dependency Name : jna Fourth Party Dependency License : Apache 2.0 Fourth Party Dependency Copyright : Copyright Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. ===== Fourth Party Dependency Name : docbook-xml Fourth Party Dependency License : Apache 2.0 Fourth Party Dependency Copyright : Copyright Copyright 2015 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. ===== Fourth Party Dependency Name : docbook-xml Fourth Party Dependency License : Apache 2.0

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Provider	Component (s)	Licensing Information
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The Apache Software Foundation	Commons Codec 1.16.0	APACHE 2.0 - See Appendix E

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Provider	Component (s)	Licensing Information
Encode OSS Ltd	htpx 0.26.0	htpx 0.18.2 Copyright © 2019, Encode OSS Ltd. All rights reserved. See Appendix M ----- 4TH PARTY DEPENDENCIES ----- certifi 2021.5.30 This package contains a modified version of ca-bundle.crt: ca-bundle.crt -- Bundle of CA Root Certificates 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. Just configure this file as the SSLCACertificateFile.# ***** 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 ***** ***** ***** END LICENSE BLOCK ***** @(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$ ----- htpcore 0.13.6 Copyright © 2020, Encode OSS Ltd. All rights reserved. See Appendix M ----- sniffio 1.2.0 async_generator 1.10 NOTE:- "async_generator is used for python_version < '3.7'" but we use python 3.9.2 This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE2 or LICENSE.MIT. Contributions to are made under the terms of *both* these licenses.

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Provider	Component (s)	Licensing Information
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Stefan Majer	influxdb-java 2.19	MIT License See Appendix G
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Provider	Component (s)	Licensing Information
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		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. 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. ===== https://asm.ow2.io/license.html License 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. See Appendix M

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

Provider	Component (s)	Licensing Information
Eclipse Foundation	Jetty 9.4.42.v20210604	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. ===== 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

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

Provider	Component (s)	Licensing Information
		The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed. * org.mortbay.jasper:apache-jsp * org.apache.tomcat:tomcat-jasper * org.apache.tomcat:tomcat-juli * 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 Cryptography ----- Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted. 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. APACHE 2.0 - See Appendix E

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

Provider	Component (s)	Licensing Information
Eclipse Foundation	Jetty 9.4.30.v20200611	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 ===== 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. * org.eclipse.jetty.orbit:org.eclipse.jdt.core The following dependencies are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message The following dependencies are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish The following dependencies are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html * javax.servlet:javax.servlet-api * javax.annotation:javax.annotation-api * javax.transaction:javax.transaction-api * javax.websocket:javax.websocket-api

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

Provider	Component (s)	Licensing Information
		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 * java.sun.security.ssl 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 The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed. * org.mortbay.jasper:apache-jsp * org.apache.tomcat:tomcat-jasper * org.apache.tomcat:tomcat-juli * 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 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 Cryptography ----- Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted. The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password

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Provider	Component (s)	Licensing Information
		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. ----- #####4th party dependencies##### org.ow2.asm asm / asm-common / asm-tree / asm-analysis 7.0 COPYRIGHT and LICENSE: ASM: a very small and fast Java bytecode manipulation framework Copyright (c) 2000-2011 INRIA, France Telecom All rights reserved. See Appendix M ----- FOURTH-PARTY DEPENDENCY #2 org.ow2.asm:asm 7.3.1 FOURTH-PARTY DEPENDENCY #2 LICENSE of org.ow2.asm:asm component License 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. See Appendix M =====End of LICENSE of org.ow2.asm:asm component component===== ===== ===== ===== --- org.mortbay.jasper apache-jsp 9.0.29 COPYRIGHT: Mort Bay Consulting LICENSE: Apache 2.0 same as top-level license text above. --- 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.

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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 4	TOP-LEVEL LICENSE TEXT Jetty 9.4.40.v20210413 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 2.0 license For Apache License, see Appendix E -----separator----- TOP-LEVEL NOTICE TEXT 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. * org.eclipse.jetty.orbit:org.eclipse.jdt.core The following dependencies are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message The following dependencies are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish 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

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

Provider	Component (s)	Licensing Information
		hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html * java.sun.security.ssl 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 The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed. * org.mortbay.jasper:apache-jsp * org.apache.tomcat:tomcat-jasper * org.apache.tomcat:tomcat-juli * 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 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 Cryptography ----- Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted. The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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

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
		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 See Appendix G

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 3.0.9 Jetty ReactiveStream HttpClient 3.0.8	TOP-LEVEL LICENSE TEXT for org.eclipse.jetty:jetty-reactive-httpclient:1.1.10 For Apache License, see Appendix E 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 .* ***** *****/ 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. -----separator----- FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.40.v20210413

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 1.1.9	TOP-LEVEL LICENSE TEXT for org.eclipse.jetty:jetty-reactive-httpclient:1.1.9 For Apache License, see Appendix E 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 .* ***** *****/ 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. -----separator----- FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.40.v20210413

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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
		manipulation framework Copyright (c) 2000-2011 INRIA, France Telecom All rights reserved. See Appendix M ----- Apache The following artifacts are ASL2 licensed. org.apache.taglibs:taglibs-standard-spec 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. 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 ----- Assorted The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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

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

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 3.0.4 Jetty ReactiveStream HttpClient 3.0.8 Jetty ReactiveStream HttpClient 3.0.9	TOP-LEVEL COPYRIGHT NOTICE for org.eclipse.jetty:jetty-reactive-httpclient:1.1.10 <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:1.1.10 APACHE 2.0 - See Appendix E END OF TERMS AND CONDITIONS -----separator----- FOURTH-PARTY DEPENDENCY #1 org.reactivestreams:reactive-streams 1.0.3 COPYRIGHT NOTICES / ***** *** * Licensed under Public Domain (CC0) * * * * To the extent possible under law, the person who * associated CC0 with * * this code has waived all copyright and related or * neighboring * * rights to this code. * * * * You should have received a copy of the CC0 legalcode * along with this * * work. If not, see <http://creativecommons.org/ * publicdomain/zero/1.0/>.* </pre>

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

Provider	Component (s)	Licensing Information
		----- Eclipse The following artifacts are EPL. * org.eclipse.jetty.orbit:org.eclipse.jdt.core The following artifacts are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message ----- 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 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. See Appendix M ----- Apache The following artifacts are ASL2 licensed. org.apache.taglibs:taglibs-standard-spec 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. 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

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

Provider	Component (s)	Licensing Information
		----- 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-----

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 3.0.8	TOP-LEVEL COPYRIGHT NOTICE for org.eclipse.jetty:jetty-reactive-httpclient:3.0.4 <pre> /* * * Licensed under the Apache License, Version 2.0 (the * "License"); * you may not use this file except in compliance with the * License. * You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, * software * distributed under the License is distributed on an "AS IS" * BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY * KIND, either express or implied. * See the License for the specific language governing * permissions and * limitations under the License. */ -----separator----- TOP-LEVEL LICENSE TEXT for org.eclipse.jetty:jetty-reactive-httpclient:3.0.4 APACHE 2.0 - See Appendix E -----separator----- FOURTH-PARTY DEPENDENCY #1 org.reactivestreams:reactive-streams 1.0.3 COPYRIGHT NOTICES / ***** *** * Licensed under Public Domain (CC0) * * * * To the extent possible under law, the person who * associated CC0 with * * this code has waived all copyright and related or * neighboring * * rights to this code. * * * * You should have received a copy of the CC0 legalcode * along with this * * work. If not, see <http://creativecommons.org/ * publicdomain/zero/1.0/>.* ***** ***/ </pre>

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

Provider	Component (s)	Licensing Information
		The following artifacts are EPL. * org.eclipse.jetty.orbit:org.eclipse.jdt.core The following artifacts are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message ----- 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 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. See Appendix M ----- Apache The following artifacts are ASL2 licensed. org.apache.taglibs:taglibs-standard-spec 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. 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 ----- Assorted

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

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

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

Provider	Component (s)	Licensing Information
		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-----

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
		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. ----- 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. ----- 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

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Provider	Component (s)	Licensing Information
jsonwebtoken.io	jjwt 0.11.2 jjwt-api 0.12.3 jjwt-impl 0.12.3 jjwt-jackson 0.12.3	Top Level Components and subcomponents: JWT :: API (io.jsonwebtoken:jjwt-api) Copyright (C) 2014 jsonwebtoken.io JWT :: Impl (io.jsonwebtoken:jjwt-impl) Copyright (C) 2014 jsonwebtoken.io JWT :: Extensions :: Jackson (io.jsonwebtoken:jjwt-jackson) Copyright (C) 2014 jsonwebtoken.io JWT :: Extensions :: Gson (io.jsonwebtoken:jjwt-gson) Copyright (C) 2014 jsonwebtoken.io JWT :: Extensions :: org.json (io.jsonwebtoken:jjwt-orgjson) Copyright (C) 2014 jsonwebtoken.io APACHE 2.0 - See Appendix E ----- 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 ----- ***** FOURTH PARTY DEPENDENCIES ***** ----- 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) ----- ----- JSON in Java (org.json:json) Copyright (c) 2002 JSON.org LICENSE:

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Joda.org	joda-time 2.10.10	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

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Marc Prud'hommeaux	JLine 3.15.0	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.

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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
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Everit Kft	JSON Schema 1.12.1	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 4 th -party dependencies: re2j/ The Go license/ https://golang.org/LICENSE Copyright (c) 2009 The Go Authors. All rights reserved. See Appendix M Common-validator Apache Commons Validator Copyright 2001-2017 The Apache Software Foundation APACHE 2.0 - See Appendix E json 20160810 Copyright (c) 2002 JSON.org See Appendix G commons-beanutils 1.9.3 Apache Commons BeanUtils Copyright 2000-2016 The Apache Software Foundation APACHE 2.0 - See Appendix E handy-uri-templates 2.1.6 Copyright (c) 2012, Ryan J. McDonough All rights reserved. APACHE 2.0 - See Appendix E

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Vitaly Puzrin	js-yaml 4.1.0	----- Top-level license ----- (The MIT License) Copyright (C) 2011-2015 by Vitaly Puzrin MIT License See Appendix G ----- Copyright notices ----- (The MIT License) Copyright (C) 2011-2015 by Vitaly Puzrin MIT License See Appendix G ----- Fourth-party information ----- == NAME OF DEPENDENCY 1 argparse == License Python-2.0 A. HISTORY OF THE SOFTWARE Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software. In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization

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Release Owner	Derived GPL-	Year																																				
from		compatible? (1)																																				
1.3 thru 1.5.2	yes	1991-1995 CWI 1995-1999																																				
1.6	yes	2000																																				
2.0	no	2000																																				
1.6.1	no	2001																																				
2.1	yes (2)	2001																																				
2.0.1	no	2001																																				
2.1.1	yes	2001																																				
2.1.2	yes	2002																																				
2.1.3	yes	2002																																				
2.2 and above	yes	2001-now																																				

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Provider	Component (s)	Licensing Information
		six, 1.15.0 MIT Copyright (c) 2010-2020 Benjamin Peterson MIT License See Appendix G +++++ python-dateutil, 2.8.1, Apache 2.0 + BSD Copyright 2017- Paul Ganssle <paul@ganssle.io> 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. 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). ----- dateutil - Extensions to the standard Python datetime module. Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net> Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi> Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net> Copyright (c) 2015- - Paul Ganssle <paul@ganssle.io> Copyright (c) 2015- - dateutil contributors (see AUTHORS file) All rights reserved. See Appendix M The above BSD License Applies to all code, even that also covered by Apache 2.0. +++++ setuptools, 47.1.1, MIT Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com> MIT License See Appendix G

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		MIT License See Appendix G APACHE 2.0 - See Appendix E
		----- ----- -----
		workflow-support-plugin,3.8 (Pipeline: Supporting APIs)
		The MIT License ~ ~ Copyright (c) 2013-2014, CloudBees, Inc. ~ ~
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		----- ----- -----
		mailer-plugin,1.34 (Mailer Plugin)
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CloudBees, Inc.	Login Theme Plugin for Jenkins 82.v6f8cc54f93c5 Login Theme Plugin for Jenkins 108.vf74a_83b_2238b_	MIT License Copyright (c) 2018, CloudBees, Inc. MIT License See Appendix G -----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

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Apache	Log4J 2.13.1	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 See Appendix E 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/).
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Provider	Component (s)	Licensing Information
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NumPy Developers	NumPy 1.26.0	Copyright (c) 2005–2021, NumPy Developers. All rights reserved. See Appendix M
NumPy Developers	NumPy 1.19.0	Copyright (c) 2005–2020, NumPy Developers. All rights reserved. See Appendix M
Opentracing.io	OpenTracing API for Java 0.33.0	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
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

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

Provider	Component (s)	Licensing Information
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	Public Licenses & Copyright Notices: Dependency Tree: <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> License: Apache License Version 2.0, January 2004 Artifacts: <pre> io.opentracing.contrib.* io.jaegertracing.* com.squareup.* com.google.code.gson:gson org.apache.thrift.* </pre> Licenses (Include all Licenses here. Do not provide links.): APACHE 2.0 - See Appendix E Copyrights: Artifact: <pre> 1. io.opentracing.contrib:opentracing-spring-jaeger-web-starter </pre>

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		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: <pre> /* * 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> ----- Artifact: org.apache.thrift:libthrift Copyright: Apache Thrift

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		FOURTH-PARTY DEPENDENCY #22 org.springframework:spring-expression:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #23 org.springframework:spring-jcl:5.1.9.RELEASE COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. ----- FOURTH-PARTY DEPENDENCY #1 com.squareup.okio:okio:1.13.0 FOURTH-PARTY DEPENDENCY #2 io.jaegertracing:jaeger-client:0.35.1 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 FOURTH-PARTY DEPENDENCY #6 io.opentracing.contrib:opentracing-spring-jaeger-starter:2.0.3 FOURTH-PARTY DEPENDENCY #7 io.opentracing.contrib:opentracing-spring-tracer-configuration-starter:0.2.0 FOURTH-PARTY DEPENDENCY #8 io.opentracing.contrib:opentracing-spring-web:2.1.0 FOURTH-PARTY DEPENDENCY #9 io.opentracing.contrib:opentracing-spring-web-starter:2.1.0 FOURTH-PARTY DEPENDENCY #10 io.opentracing.contrib:opentracing-tracerresolver:0.1.6 FOURTH-PARTY DEPENDENCY #11 io.opentracing.contrib:opentracing-web-servlet-filter:0.3.0 FOURTH-PARTY DEPENDENCY #12 io.opentracing:opentracing-api:0.32.0 FOURTH-PARTY DEPENDENCY #13 io.opentracing:opentracing-noop:0.32.0 FOURTH-PARTY DEPENDENCY #14 io.opentracing:opentracing-util:0.32.0 FOURTH-PARTY DEPENDENCY #15 org.apache.thrift:libthrift:0.12.0 FOURTH-PARTY DEPENDENCY #16 org.springframework.boot:spring-boot:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #17 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-aop:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #19 org.springframework:spring-beans:5.1.9.RELEASE FOURTH-PARTY DEPENDENCY #20 org.springframework:spring-context:5.1.9.RELEASE

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

Provider	Component (s)	Licensing Information
		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

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Selenium	Selenium - Python 4.15.2 Selenium - Python 4.16.0	APACHE 2.0 - See Appendix E

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tcpdump project	tcpdump 4.9.3-1 tcpdump 4.9.3-2 tcpdump 4.9.3-3	License: BSD See Appendix M .

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B

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C

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E

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=====
===== File 8 of 38: ext/calendar: dow.c
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```
=====
===== File 10 of 38: ext/fileinfo/libmagic/LICENSE
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=====
===== File 12 of 38: ext/gd/libgd/README
=====
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the GD library itself. We felt it would be worthwhile to make sure everyone had access to the
features of GD and by bundling GD with PHP we have a known target to work against. In
addition to the above, a number of motivated PHP hackers have expressed an interest in
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CVS we have provided a sandbox for them to throw sand at each other in. Any and all
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=====
===== File 13 of 38: ext/gd/libgd/webpimg.c
=====
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===== File 16 of 38: ext/json/JSON_parser.c

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===== File 17 of 38: ext/mbstring/libmbfl/filters/cp932_table.h

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=====
===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c
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 ===== File 21 of 38: ext/mbstring/ucgendetat/ucgendetat

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expression-eval

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

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

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

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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select2.js

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

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

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Fourth Party Dependencies

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

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@opentelemetry/api
@opentelemetry/instrumentation-amqplib
@opentelemetry/core
@opentelemetry/semantic-conventions
@opentelemetry/instrumentation
@opentelemetry/instrumentation-aws-lambda
@opentelemetry/propagator-aws-xray
@opentelemetry/resources
@opentelemetry/instrumentation-aws-sdk
@opentelemetry/propagation-utils
@opentelemetry/instrumentation-bunyan
@opentelemetry/instrumentation-cassandra-driver
@opentelemetry/instrumentation-connect
@opentelemetry/instrumentation-cucumber
@opentelemetry/instrumentation-dataloader
@opentelemetry/instrumentation-dns
@opentelemetry/instrumentation-express
@opentelemetry/instrumentation-fastify
@opentelemetry/instrumentation-fs
@opentelemetry/instrumentation-generic-pool
@opentelemetry/instrumentation-graphql

@opentelemetry/instrumentation-grpc
@opentelemetry/instrumentation-hapi
@opentelemetry/instrumentation-http
@opentelemetry/instrumentation-ioredis
@opentelemetry/redis-common
@opentelemetry/instrumentation-knex
@opentelemetry/instrumentation-koa
@opentelemetry/instrumentation-lru-memoizer
@opentelemetry/instrumentation-memcached
@opentelemetry/instrumentation-mongodb
@opentelemetry/sdk-metrics
@opentelemetry/instrumentation-mongoose
@opentelemetry/instrumentation-mysql
@opentelemetry/instrumentation-mysql2
@opentelemetry/sql-common
@opentelemetry/instrumentation-nestjs-core
@opentelemetry/instrumentation-net
@opentelemetry/instrumentation-pg
@opentelemetry/instrumentation-pino
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@opentelemetry/instrumentation-redis
@opentelemetry/instrumentation-restify
@opentelemetry/instrumentation-router
@opentelemetry/instrumentation-socket.io
@opentelemetry/instrumentation-tedious
@opentelemetry/instrumentation-winston
@opentelemetry/resource-detector-alibaba-cloud
@opentelemetry/resource-detector-aws
@opentelemetry/resource-detector-container
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@opentelemetry/otlp-grpc-exporter-base
@opentelemetry/otlp-exporter-base
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@opentelemetry/exporter-trace-otlp-http
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