

Oracle® Communications

Cloud Native Core Licensing Information User Manual



Release 3.25.2.200.0
G50874-02
March 2026

ORACLE®

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Preface

- [Documentation Accessibility](#)
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Documentation Accessibility

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html> .

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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, and so on.) 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 • Oracle Communications Cloud Native Core, Network Slice Selection Function - 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

Product	Sub product	Licensing Information
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, Network Repository Function – 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Routing and Selection – 25K Active Subscribers Perpetual • 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 • Oracle Communications Cloud Native Core, Subscriber Location Function – 25K Active Subscribers • Oracle Communications Cloud Native Core, 5G Equipment Identity Register - 25K Active Subscribers

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
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 Security Edge Protection Proxy (SEPP) • Discovery and Routing to a customized in line roaming proxy in the home network (5G NIF) Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, Advanced Routing – 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Security Edge Protection Proxy (SEPP) - 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, Binding Support Function Feature Pack B - 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 • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Policy Control for NB IoT - 25K Active Subscribers Perpetual 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.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Automated Lifecycle Management - 25K Active Subscribers	Description: This feature optimizes the deployment or upgrade steps. This is achieved by automating service account creation that enables you to create user-defined service account automatically without performing any manual steps. 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, Unified Data Repository - 25K Active Subscribers - Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers Note This ALM SKU is an optional SKU only when the customer is purchasing the NFs from Oracle.

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
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack H - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: • Support backoff logic during N1 and N2 communication (AMF Discovery, Subscription and Transfer). • Support for ASM. • Support on NSA vs SA KPIs for N7 Interface. • Compatibility with two webscale versions. Prerequisites: Any one of the following licenses is a prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack H - 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 H - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: - Support backoff logic during N1 and N2 communication (AMF Discovery, Subscription and Transfer). - Support for ASM. - Support on NSA vs SA KPIs for N7 Interface. - Compatibility with two webscale versions. Prerequisites: Any one of the following licenses is a prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack H - 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, Service Communication Proxy Feature Pack H - 25K Active Subscribers	Description: This sub-product adds the following optional features to Service Communication Proxy: - SCP to retry when serv-name is missing from 3gpp-sbi-routing-binding header. - Derive notification recipient's NF Type from the 3gpp-sbi-routing-binding header for the purposes of metrics and accounting. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack H - 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 H - 25K Active Subscribers	Description: This sub-product adds the following optional features to Subscriber Location Function: - Capacity growth on 23.4.1 (Signalling TPS = 50K; Provisioning TPS = 1.2K, Sub Cap: 64M). - Support for ASM. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack H - 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, Network Repository Function Feature Pack H - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Repository Function. - Validate 51.6K Ingress and 45.6K SLF TPS performance. - Validate 103.2K Ingress and 91.2K SLF TPS performance. - Validate 51.6K Ingress and 45.6K SLF TPS performance. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack H - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Network Repository Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack H - per 25K Active Subscribers	Description: This sub-product adds the following optional features to Binding Support Function. - Support for ASM. - CnBSF-PCF and BSF stale binding detection logging. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack H - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Binding Support Function – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack H - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Slice Selection Function. - Support on higher number of TAI/Snssai combination. Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack H - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers

Note

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

Note

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

Note

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

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. MySQL CGE is included in Cloud Native Core download package.

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

Note

Oracle Linux, used by all the network functions of Oracle Communications Cloud Native Core, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle Linux is not a part of the Cloud Native Core download package. For more information on licensing, refer to the [Oracle Linux End-User Licensing Agreement](#).

Note

Oracle JDK, used by all the network functions of Oracle Communications Cloud Native Core, is included in Cloud Native Core download package. For more information on licensing, refer to the [Oracle JDK End-User Licensing Agreement](#).

Note

Oracle Communication Cloud Native Core uses both versions of Oracle Coherence (Community Edition [CE] and Enterprise edition [EE]). Oracle Coherence (both CE and EE) is included in Cloud Native Core download package. For more information on their licensing, refer to the license document/release notes:

- [Oracle Coherence Enterprise Edition](#)
- [Oracle Coherence Community Edition](#)

Oracle Helidon is used by all the network functions of Oracle Communications Cloud Native Core and is a part of the Cloud Native Core download package. For more information on licensing, refer to the [Oracle Helidon Licensing Agreement](#).

Note

Oracle GraalVM is used by the network functions of Oracle Communications Cloud Native Core and is a part of the Cloud Native Core download package. For more information on licensing, refer to the [Oracle GraalVM Enterprise Edition](#).

Note

oci-management-agent and oci-fluentd-collector are used by all the network functions of Oracle Communications Cloud Native Core and are a part of the Cloud Native Core download package. oci-management-agent and oci-fluentd-collector do not include any third party code under commercial terms that would limit the ability to embed these with the CGIU products or impose any additional development restrictions or royalty/reporting obligations. oci-management-agent and oci-fluentd-collector are included for use with Oracle Communications Cloud Native Core. Use of oci-management-agent and oci-fluentd-collector are restricted to use with Oracle Communications Cloud Native Core.

Note

Micronaut is used by the network functions of Oracle Communications Cloud Native Core and is a part of the Cloud Native Core download package. For more information on licensing, refer to <https://graal.cloud/gdk/about/lium/>.

3

Third-Party Notices and/or Licenses

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Commercial software products or components distributed in Oracle Communications Cloud Native Core are identified in the following table along with the applicable licensing information.

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		## Source Code The project maintains the following source code repositories: * https://github.com/eclipse-ee4j/common-annotations-api ## Third-party Content ## 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. ===== ===== ===== Fourth-Party Dependencies org.yaml snakeyaml License : Apache License Version 2.0 Copyright (c) 2008, http://www.snakeyaml.org Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. License text : [0] in License reference. ===== ===== ===== License References are mentioned below. ===== Start License Reference [0] =====

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3.2.1 Oracle Communications Cloud Native Core, Cloud Native Environment 25.2.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Environment 25.2.200:

- Ansible 10.7.0
- bind-utils 9.16.23-31.0.1.el9_6
- cert-exporter 2.17.0
- confluent-kafka 2.11.0
- croniter 3.0.3
- cryptography 46.0.3
- dnsmasq 2.85-17.el9_6
- dnsmasq 2.85-16.el9_4
- fastapi 0.116.1
- Flask 3.1.2
- gevent 24.11.1
- GNU findutils 4.8.0-7
- gnu tar 1.34-7
- grub2 2.06-104.0.1.el9_6
- gunicorn 23.0.0
- gzip 1.12-1.el9
- iproute 6.14.0-2.el9
- iptables-nft 1.8.10-11.el9_5
- iputils 20210202-11.0.1.el9_6.3
- iputils 20210202-15.0.1.el9_7
- ipvsadm 1.31-6.el9
- Jaeger 1.72.0
- Jinja2 3.1.6
- jq 1.6-17.el9
- kubectrl 1.32.7-1
- Kubespray 2.29.0
- kube-state-metrics 2.17.0
- Kyverno 1.15.0
- markupsafe 3.0.2
- MetalLB 0.15.2
- metrics-server 0.8.0
- netaddr 1.3.0

- Nginx 1.24.0-4.0.1.module+el9.5.0+90543+4953bb61.1
- Node Exporter 1.10.2
- OCI Grafana 7.5.17_1.0.4
- OpenSSH 8.7p1-46.0.2.el9
- OpenSSL 3.2.2-6.0.1.el9_5.1
- openstacksdk 4.4.0
- Oracle OpenSearch 2.19.1.0
- Oracle OpenSearch Dashboards 2.19.1
- p7zip 16.02-31.el9
- p7zip-plugins 16.02-31.el9
- Paramiko 3.5.1
- pbr 7.0.0
- procs-ng 3.3.17-14.0.1.el9
- Prometheus 3.6.0
- Prometheus AlertManager 0.28.0
- Prometheus Python Client 0.23.1
- prometheus-operator 0.85.0
- Promxy 0.0.92
- pygtail 0.14.0
- pyroute2 0.9.5
- Python 3.12.9-1.el9_6.2
- Python3.12-pip 23.2.1-5.el9
- python-json-logger 3.3.0
- python-openstackclient 7.4.0
- Pyvcloud 23.0.4
- PyYAML 6.0.2
- requests 2.32.5
- Rook 1.17.7
- rsync 3.2.3-20.el9_5.1
- shim-x64 15.8-1.0.4.el9_4
- SNMP Notifier 2.0.0
- SQLite 3.34.1-8.el9_6
- sshpass sshpass-1.09-4.el9
- syslinux 6.04-0.20.el9
- tcpdump 4.99.0-9
- UnZip 6.0-58.el9_5
- uvicorn 0.35.0
- vcd-cli 24.1.0

- velero 1.17.1
- Velero Plugin for AWS 1.13.1
- zip 3.0-35

3.2.2 Automated Test Suite 25.2.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Automated Test Suite (ATS) 25.2.200:

- Apache HTTP Server 2.4.66
- behave 1.2.6
- Blue Ocean 1.27.25
- colorlog 6.9.0
- deepmerge 2.0
- Flask 3.1.2
- geckodriver 0.36.0
- h2 4.3.0
- httpx 0.27.2
- Jenkins 2.548
- Jenkins active choices plug-in 2.8.8
- JMeter 5.6.3
- jmeter-http2-plugin 2.0.6
- jpgc-casutg 3.1.1
- jsonschema 4.23.0
- Kubernetes Java Client 24.0.0
- Kubernetes Python Client 32.0.1
- Login Theme Plugin for Jenkins 262.vb_4ce39d5279f
- Matrix Authorization Strategy Plug-in 3.2.9
- MySQL Connector/Python 9.4.0
- OCI SDK for Python 2.135.2
- Opensearch Python Client 2.8.0
- Paramiko 4.0.0
- Pipeline Plugin 608.v67378e9d3db_1
- pipeline-stage-view 2.37
- PyJWT 2.10.1
- PyYAML 6.0.2
- Quart 0.20.0
- regex 2024.11.6
- requests 2.32.5
- Selenium - Python 4.35.0

- sidebar link 2.4.2
- Simple Theme Plugin for Jenkins 211.v5424a_5510e47
- test-results-analyzer-plugin 309.vda_3a_a_f100542
- TinyDB 4.8.2

3.2.3 Oracle Communications Cloud Native Core, Binding Support Function

25.2.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Binding Support Function 25.2.200:

- @hapi/boom 10.0.1
- @hapi/inert 7.1.0
- @hapi/wreck 18.0.2
- @opentelemetry/api 1.9.0
- @opentelemetry/exporter-trace-otlp-proto 0.57.1
- @opentelemetry/instrumentation 0.57.1
- @opentelemetry/instrumentation-http 0.57.1
- @opentelemetry/resources 1.30.1
- @opentelemetry/sdk-trace-base 1.30.1
- @opentelemetry/sdk-trace-node 1.30.1
- @opentelemetry/semantic-conventions 1.39.0
- Apache Commons BeanUtils 1.11.0
- Apache Commons IO 2.18.0
- Apache commons-validator 1.10.0
- bind-utils 9.16.23-34.0.1
- Blockly 12.0.0
- bucket4j_jdk17-coherence 8.14
- bucket4j_jdk17-core 8.14
- caffeine 3.2.0
- coherence-spring-boot-starter 4.1.0
- Commons Codec 1.17.2
- Commons Collections 4.5.0
- Commons Compress 1.27.1
- Commons CSV 1.12.0
- Commons Lang 3.18.0
- Commons Logging 1.3.5
- Commons Pool 2.12.1
- commons-fileupload2-core 2.0.0-M4
- converter-moshi 3.0.0

- copy-webpack-plugin 13.0.0
- curl 7.76.1-34.el9
- cxf-core 4.1.3
- cxf-rt-bindings-soap 4.1.3
- cxf-rt-databinding-jaxb 4.1.3
- cxf-rt-frontend-jaxws 4.1.3
- cxf-rt-transports-http 4.1.3
- cxf-rt-transports-http-jetty 4.1.3
- cxf-rt-wsdl 4.1.3
- date-fns 4.1.0
- deep-diff 1.0.2
- dnsjava 3.6.0
- dotenv 16.6.1
- dropwizard metrics-core 4.2.30
- Equals Verifier 3.18.1
- Expiring Map 0.5.11
- Expressly 6.0.0
- Fastjson2 2.0.38
- Flask 3.1.1
- gnu tar 1.34-9
- GSON 2.13.2
- Guava 33.5.0
- gunicorn 23.0.0
- hapi 21.3.10
- Hibernate Validator 9.0.1.Final
- hibernate-core 6.6.33.Final
- HikariCP 6.3.0
- HttpComponents Client 5.3.1
- httpcore5 5.3.6
- httpx 0.28.1
- influxdb-java 2.25
- ipaddr.js 2.3.0
- iproute 6.14.0-2.el9
- iputils 20210202-15.0.1.el9_7
- Jackson Annotations 2.18.1
- Jackson Core 2.18.5
- Jackson Databind 2.18.1
- jackson-dataformat-yaml 2.18.1

- jackson-datatype-jdk8 2.18.1
- jackson-datatype-joda 2.18.1
- jackson-datatype-jsr310 2.18.1
- Jakarta Activation API (JAF) 2.1.4
- Jakarta Annotations API 3.0.0
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta Servlet 6.1.0
- Jakarta Validation API 3.1.1
- Jakarta XML Binding API (JAXB) 4.0.4
- jakarta.jakartaee-web-api 11.0.0
- jakarta.json-api 2.1.3
- jakarta.persistence-api 3.2.0
- jakarta.xml.ws-api 4.0.2
- jakarta-servlet-api 6.1.0
- javaparser-core 3.27.1
- JavaScript Extension Toolkit (JET) 18.1.0
- Javassist 3.30.2-GA
- jaxb-runtime 4.0.5
- jersey-client 3.1.11
- jersey-common 3.1.11
- jersey-hk2 3.1.9
- jersey-hk2 3.1.11
- jersey-media-json-jackson 3.1.9
- jersey-media-json-jackson 3.1.11
- jersey-media-multipart 3.1.11
- jersey-server 3.1.11
- Jetty 11.0.25
- Jetty 12.0.30
- Jetty ReactiveStream HttpClient 3.0.16
- Jetty ReactiveStream HttpClient 4.0.9
- Jinja2 3.1.6
- JLDAP-Policy 2008/3/1
- Joda Time 2.14.0
- JQuery 3.7.1
- jsdom 26.1.0
- jSMPP 3.0.1
- JSON in Java 20250517
- jsonEditor 10.4.2

- json-path 2.10.0
- json-schema-validator 1.5.5
- json-smart 2.5.2
- Kubernetes client-java-api 24.0.0
- Kubernetes Java Client 21.0.1
- Kubernetes Java Client 24.0.0
- Kubernetes Python Client 33.1.0
- kubernetes-client-api 7.4.0
- kubernetes-model-core 7.4.0
- LMAX Disruptor 3.4.2
- log4j-api 2.25.3
- log4j-core 2.25.3
- log4j-layout-template-json 2.24.1
- log4j-layout-template-json 2.25.2
- log4j-slf4j-impl 2.25.3
- log4j-web 2.25.3
- Logback 1.5.8
- Lombok 1.18.36
- micrometer-commons 1.15.4
- micrometer-core 1.15.4
- micrometer-jetty12 1.13.12
- micrometer-registry-prometheus 1.13.6
- Mocha 11.7.5
- Moment.js 2.30.1
- moshi 1.15.2
- net-tools 2.0-0.64.20160912git.el9
- netty-codec-http2 4.1.127.Final
- netty-common 4.1.127.Final
- netty-handler 4.1.127.Final
- netty-transport 4.1.127.Final
- Node.js 20.16.0-1.module+el8.10.0+90391+162fb07b
- NumPy 2.2.3
- OCI SDK for Python 2.138.1
- okhttp-logging-interceptor 5.1.0
- Okio 3.10.2
- opentelemetry-api 1.54.1
- opentelemetry-exporter-otlp 1.54.1
- opentelemetry-javaagent 2.20.1

- opentelemetry-sdk 1.54.1
- Pandas 2.2.3
- pip 25.3
- prom-client 15.1.3
- Prometheus Python Client 0.21.1
- protobuf-java 3.25.5
- python-mysqldb 2.2.7
- PyYAML 6.0.2
- reactor-core 3.5.20
- requests 2.32.4
- retrofit2 3.0.0
- slf4j-api 2.0.17
- SnakeYAML 2.5
- Spring Boot (CGIU only) 3.1.20.1
- Spring Retry 2.0.12
- swagger-annotations 2.2.38
- tcpdump 4.99.0-9
- The Bouncy Castle Crypto Package For Java 1.82
- The Bouncy Castle Crypto Package For Java 1.82
- tls-channel 0.9.0
- TypeScript 5.7.2
- webpack-cli 6.0.1
- winston 3.19.0
- yaml 2.8.2
- zip.js 2.8.15
- zipkin 3.5.1
- zipkin-reporter-java 3.5.1
- zipkin-sender-okhttp3 3.5.1
- zjsonpatch 7.4.0

3.2.4 Oracle Communications Cloud Native Core, cnDBTier 25.2.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, cnDBTier 25.2.200:

- APScheduler 3.11.0
- croniter 3.0.3
- Flask 3.1.0
- Flask 3.1.1

- GNU findutils 4.8.0-7
- gnu tar 1.34-7
- Injector 0.22.0
- iputils 20210202-11.0.1.el9_6.3
- jq 1.16-17
- kubectl 1.32.7-1
- Kubernetes Java Client 24.0.0
- log4j-core 2.25.3
- log4j-slf4j2-impl 2.25.2
- OpenSSH 8.7p1-46.0.2.el9
- OpenSSL 3.2.2-6.0.1.el9_5.1
- Paramiko 3.5.1
- procs-ng 3.3.17-14.0.1.el9
- Python 3.12.9-1.el9_6.2
- Python3.12-pip 23.2.1-5.el9
- python-json-logger 3.3.0
- requests 2.32.4
- Schedule 1.2.2
- 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
- zip 3.0-35

3.2.5 Oracle Communications Cloud Native Core, Certificate Management 25.2.200

The following is the list of components for Oracle Communications Cloud Native Core, Certificate Management 25.2.200:

- bind-utils 9.16.23-34.0.1
- Commons Compress 1.27.1
- curl 7.76.1-35.el9_7.3
- GNU BASH 5.1.8-9.el9
- gnu tar 1.34-9
- Guava 33.4.8
- iproute 6.14.0-2.el9
- iputils 20210202-15.0.1.el9_7
- Jackson Databind 2.21.0

- jackson-datatype-joda 2.18.1
- jackson-module-afterburner 2.18.1
- jersey-media-json-jackson 3.1.9
- Jetty ReactiveStream HttpClient 4.0.9
- JSON in Java 20250517
- Kubernetes Client Java 7.4.0
- Kubernetes Java Client 24.0.0
- log4j-api 2.25.3
- log4j-core 2.25.3
- log4j-jul 2.24.3
- net-tools 2.0-0.64.20160912git.el9
- Okio 3.10.2
- OpenSSL 3.6.1
- protobuf-java 3.25.6
- reactor-core 3.7.8
- tcpdump 4.99.0-9

3.2.6 Oracle Communications Cloud Native Configuration Console 25.2.200 Components

The following is the list of components for Oracle Communications Cloud Native Configuration Console 25.2.200:

- Apache Commons IO 2.18.0
- bcpkix-jdk18on 1.81
- bind-utils 9.16.23-34.0.1
- bind-utils bind-utils-9.16.23-31.0.1
- bucket4j_jdk17-coherence 8.14
- bucket4j_jdk17-core 8.14
- Commons Compress 1.27.1
- curl 7.76.1-35.el9_7.3
- curl 7.76.1-31.el9
- GNU BASH 5.1.8-9.el9
- gnu tar 1.34-7
- gnu tar 1.34-9
- Guava 33.4.8
- Guava 33.5.0
- HttpComponents Client 5.3.1
- iproute 6.14.0-2.el9
- iproute 6.11.0-1.el9

- iputils 20210202-15.0.1.el9_7
- iputils 20210202-11.0.1.el9
- Jackson Databind 2.18.1
- Jackson Databind 2.21.0
- jackson-dataformat-yaml 2.18.1
- jackson-dataformat-yaml 2.21.0
- jackson-datatype-joda 2.18.1
- jackson-module-afterburner 2.18.1
- Jakarta Bean Validation API 3.1.1
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta Validation API 3.1.1
- JavaScript Extension Toolkit (JET) 18.1.0
- jersey-client 3.1.11
- jersey-hk2 3.1.9
- jersey-media-json-jackson 3.1.9
- Jetty 11.0.25
- Jetty ReactiveStream HttpClient 4.0.6
- Jetty ReactiveStream HttpClient 3.0.16
- jjwt-api 0.12.6
- jjwt-impl 0.12.6
- jjwt-jackson 0.12.6
- JSON in Java 20250517
- json-path 2.10.0
- json-smart 2.5.2
- Keycloak 26.4.7
- Kubernetes Client Java 7.4.0
- Kubernetes Java Client 21.0.1
- Kubernetes Java Client 24.0.0
- Log4j-API 2.24.0
- log4j-core 2.24.0
- log4j-core 2.25.3
- log4j-core 2.24.1
- log4j-layout-template-json 2.24.1
- log4j-slf4j2-impl 2.25.2
- log4j-slf4j2-impl 2.24.1
- log4j-slf4j-impl 2.24.0
- log4j-web 2.24.0
- Lombok 1.18.36

- net-tools 2.0-0.64.20160912git.el9
- Nimbus JOSE+JWT 9.37.4
- Okio 3.10.2
- opentelemetry-api 1.54.1
- opentelemetry-exporter-otlp 1.54.1
- opentelemetry-sdk 1.54.1
- protobuf-java 3.25.5
- protobuf-java 3.25.6
- reactor-core 3.6.7
- SnakeYAML 2.3
- snappy-java 1.1.10.8
- Spring Boot (CGIU only) 3.1.20.1
- tcpdump 4.99.0-9
- undertow-core 2.3.18.Final

3.2.7 Oracle Communications Cloud Native Core, Network Slice Selection Function 25.2.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Slice Selection Function 25.2.200:

- Apache Commons IO 2.18.0
- Apache commons-io 2.19.0
- bcpxix-jdk18on 1.81
- bind-utils 9.16.23-31.0.1.el9_6
- bind-utils 9.16.23-34.0.1
- bucket4j_jdk17-coherence 8.14
- bucket4j_jdk17-core 8.14
- Commons Codec 1.17.2
- Commons Compress 1.27.1
- curl 7.76.1-34.el9
- dnsjava 3.6.0
- Eclipse Parsson 1.1.7
- Flask 3.1.1
- gnu tar 1.34-7
- gnu tar 1.34-9
- GSON 2.13.2
- Guava 33.2.0
- Guava 33.5.0
- unicorn 23.0.0

- Hibernate Validator 9.0.1.Final
- HikariCP 6.3.0
- httpx 0.28.1
- iproute 6.14.0-2.el9
- iproute 6.11.0-1.el9
- iputils 20210202-11.0.1.el9_6.3
- iputils 20210202-15.0.1.el9_7
- Jackson Core 2.18.1
- Jackson Databind 2.18.1
- Jackson Databind 2.21.0
- jackson-dataformat-yaml 2.21.0
- jackson-datatype-joda 2.18.1
- jackson-datatype-joda 2.21.0
- jackson-module-afterburner 2.21.0
- Jakarta Activation API (JAF) 2.1.4
- Jakarta Annotations API 3.0.0
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta XML Binding API (JAXB) 4.0.4
- jakarta.el-api 6.0.1
- jakarta.jakartaee-api 11.0.0
- jakarta.jakartaee-web-api 11.0.0
- jakarta.json-api 2.1.3
- jakarta.persistence-api 3.2.0
- jersey-client 3.1.11
- jersey-hk2 3.1.9
- jersey-hk2 3.1.11
- jersey-media-json-jackson 3.1.9
- jersey-media-json-jackson 3.1.11
- Jetty 11.0.25
- Jetty 12.0.30
- Jetty ReactiveStream HttpClient 3.0.16
- Jetty ReactiveStream HttpClient 4.0.9
- jjwt-api 0.13.0
- jjwt-impl 0.13.0
- jjwt-impl 0.12.6
- jjwt-jackson 0.13.0
- jjwt-jackson 0.12.6
- JSON in Java 20250517

- json-path 2.10.0
- json-schema-validator 1.5.5
- json-smart 2.5.2
- Kubernetes Client Java 6.2.0
- Kubernetes Client Java 7.4.0
- Kubernetes Java Client 21.0.1
- Kubernetes Java Client 24.0.0
- Kubernetes Python Client 33.1.0
- log4j-api 2.25.3
- log4j-core 2.25.3
- log4j-jul 2.24.3
- log4j-layout-template-json 2.24.1
- log4j-layout-template-json 2.25.2
- log4j-slf4j2-impl 2.25.2
- log4j-slf4j-impl 2.24.0
- log4j-slf4j-impl 2.25.3
- log4j-web 2.25.3
- Lombok 1.18.36
- micrometer-registry-prometheus 1.15.5
- net-tools 2.0-0.64.20160912git.el9
- netty-transport-native-epoll 4.2.7.Final
- Nimbus JOSE+JWT 9.37.4
- NumPy 2.2.3
- OCI SDK for Python 2.138.1
- Okio 3.10.2
- opentelemetry-api 1.54.1
- opentelemetry-api 1.46.0
- opentelemetry-exporter-otlp 1.54.1
- opentelemetry-sdk 1.54.1
- opentelemetry-sdk 1.46.0
- Pandas 2.2.3
- Prometheus Python Client 0.21.1
- protobuf-java 3.25.5
- protobuf-java 3.25.6
- PyYAML 6.0.2
- reactor-core 3.7.12
- requests 2.32.4
- slf4j-api 2.0.17

- SnakeYAML 2.3
- snappy-java 1.1.10.8
- Spring Boot (CGIU only) 3.1.20.1
- Spring Boot (CGIU only) 3.1.15
- springdoc-openapi-starter-webmvc-ui 2.6.0
- tcpdump 4.99.0-9
- undertow-core 2.3.18.Final

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

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Fedor Indutny	ip 1.1.9	ip ----- This software is licensed under the MIT License. MIT License (MIT) See Appendix G

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Sindre Sorhus	import-fresh 3.3.0	MIT License Copyright (c) Sindre Sorhus (sindresorhus.com) MIT License (MIT) See Appendix G #####4th party dependencies##### "parent-module": "^1.0.0", MIT MIT License (MIT) See Appendix G
Apache Software Foundation	HttpCore NIO 4.4.16 HttpCore 5.2.3	HttpCore NIO License : Apache 2.0 Notice: Apache HttpComponents Core Copyright 2005-2020 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http:// www.apache.org/). Apache License, version 2.0 - See Appendix E

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Benoît Chesneau	unicorn 23.0.0	NOTICE Gunicorn 2009-2018 (c) Benoît Chesneau 2009-2015 (c) Paul J. Davis Gunicorn is released under the MIT license. See the LICENSE file for the complete license. unicorn.logging_config ----- Copyright 2001-2005 by Vinay Sajip. All Rights Reserved. Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Vinay Sajip not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. unicorn.debug ----- Based on eventlet.debug module under MIT license: Unless otherwise noted, the files in Eventlet are under the following MIT license: Copyright (c) 2005-2006, Bob Ippolito Copyright (c) 2007-2010, Linden Research, Inc. Copyright (c) 2008-2010, Eventlet Contributors (see Eventlet AUTHORS) See Appendix G unicorn.reloaders ----- Based on greins.reloaders module under MIT license: 2010 (c) Meebo, Inc. MIT License See Appendix G

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Provider	Component (s)	Licensing Information
		doc/sitemap_gen.py ----- Under BSD License : Copyright (c) 2004, 2005, Google Inc. All rights reserved. See Appendix M util/unlink.py ----- backport from python3 Lib/test/support.py LICENSE 2009-2018 (c) Benoît Chesneau 2009-2015 (c) Paul J. Davis See Appendix G setuptools 41.2.0 Could not find SSL_CERTIFICATE env variable Could not find SSL_KEY env variable Copyright (C) 2016 Jason R Coombs See Appendix G ----- setproctitle 1.1.10 Copyright (c) 2009-2016, Daniele Varrazzo All rights reserved. See Appendix M

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Provider	Component (s)	Licensing Information
hapijs	hapi 21.3.2	Copyright (c) 2011-2020, Sideway Inc, and project contributors Copyright (c) 2011-2014, Walmart Copyright (c) 2011, Yahoo Inc. All rights reserved. See Appendix M * * * The complete list of contributors can be found at: https://github.com/hapijs/hapi/graphs/contributors Portions of this project were initially based on the Yahoo! Inc. Postmile project, published at https://github.com/yahoo/postmile. ===== Below are 4th party dependencies ===== ++++++ +++++ wreck, v17.0.0, BSD-style license Copyright (c) 2012-2017, Project contributors Copyright (c) 2012-2014, Walmart All rights reserved. See Appendix M +++++ topo, v5.0.0, BSD-style license Copyright (c) 2014-2016, Project contributors Copyright (c) 2014, Walmart All rights reserved. See Appendix M +++++ teamwork, v4.0.0, BSD-style license Copyright (c) 2015-2017, Eran Hammer and Project contributors All rights reserved. See Appendix M +++++ subtext, v7.0.3, BSD-style license statehood, v7.0.2, BSD-style license shot, v5.0.0, BSD-Style license mimos, v5.0.0, BSD-Style license call, v8.0.0, BSD-style license ammo, v5.0.1, BSD-style license Copyright (c) 2014-2017, Project contributors Copyright (c) 2014, Walmart All rights reserved. See Appendix M +++++ podium, v4.0.0, BSD-style license Copyright (c) 2016-2017, Project contributors All rights reserved. See Appendix M

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Provider	Component (s)	Licensing Information
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 Lécaillon 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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Provider	Component (s)	Licensing Information
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Apache	HttpCore 4.4.13 HttpCore 4.4.14 HttpCore NIO 4.4.16 httpcore5 5.3.6 HttpComponents Client 5.2.1	Apache HttpComponents Core Copyright 2005-2018 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). APACHE 2.0 - See Appendix E
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Encode OSS Ltd	htpx 0.28.1	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
Stefan Majer	influxdb-java 2.23 influxdb-java 2.24	org.influxdb:influxdb-java MIT License See Appendix G The Apache Software Foundation (http://www.apache.org/). APACHE 2.0 - See Appendix E ----- Dependencies: com.squareup.retrofit2:retrofit : Apache License : License[1] com.squareup.retrofit2:converter-moshi : Apache License : License[1] org.msgpack:msgpack-core : Apache License : License[1] com.squareup.moshi:moshi : Apache License : License[1] com.squareup.okhttp3:okhttp : Apache License : License[1] com.squareup.okio:okio : Apache License : License[1] org.jetbrains.kotlin:kotlin-stdlib-common : Apache License : License[1] org.jetbrains.kotlin:kotlin-stdlib: Apache License : License[1] org.jetbrains:annotations : Apache License : License[1] com.squareup.okhttp3:logging-interceptor : Apache License : License[1] org.jetbrains.kotlin:kotlin-stdlib-jdk8 : Apache License : License[1] org.jetbrains.kotlin:kotlin-stdlib-jdk7 : Apache License : License[1] ----- com.squareup.retrofit2:retrofit COPYRIGHT Copyright 2022 Square, Inc. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,

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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
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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
		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
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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
		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 4.0.9 Jetty ReactiveStream HttpClient 4.0.6 Jetty ReactiveStream HttpClient 3.0.16	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

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
		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

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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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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 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-----

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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

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

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

4. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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b. Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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

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B

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library.

The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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Terms and Conditions for Copying, Distribution, And Modification

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

The "Library," below, refers to any such software library or work, which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification.")

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

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

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- b. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) operates properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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C

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

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

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

2. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

3. Conveying Modified Versions.

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

- a. under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
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4. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if

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- b. Accompany the Combined Work with a copy of the GNU GPL and this license document.

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

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

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

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

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1. b. Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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 ===== File 2 of 38: config.GUESS

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===== File 6 of 38: ext/bcmath/libbcmath/src/add.c
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===== File 12 of 38: ext/gd/libgd/README
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features of GD and by bundling GD with PHP we have a known target to work against. In
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===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c

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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

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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/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
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@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-router
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