

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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Contents

1 Introduction

2 Licensing Information

3 Third-Party Notices and/or Licenses

3.1	Commercial Software	1
3.2	Open Source or Other Separately Licensed Software	366
3.2.1	Oracle Communications Cloud Native Core, Cloud Native Environment 26.1.200 Components	367
3.2.2	Oracle Communications Cloud Native Core, cnDBTier 26.1.200 Components	370
3.2.3	Oracle Communications Cloud Native Core, Certificate Management 26.1.200	371
3.2.4	Oracle Communications Cloud Native Configuration Console 26.1.200 Components	372
3.2.5	Oracle Communications Cloud Native Core, Security Edge Protection Proxy 26.1.200 Components	375
3.2.6	Oracle Communications Cloud Native Core, OCI Adaptor 26.1.200 Components	377
3.2.7	Oracle Communications Cloud Native Core, Network Slice Selection Function 26.1.200 Components	377
3.2.8	Oracle Communications Cloud Native Core, Licensing Information	380

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Preface

- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Conventions](#)

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.

1

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>.

2

Licensing Information

Refer to the table below for information on:

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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, GitOps - Instance Perpetual	Description: GitOps allows users to easily and automatically set up and manage applications through a simple, consistent process - making updates and maintenance effortless. Prerequisites: The following license is a prerequisite to license and uses Oracle Communications Cloud Native Core, GitOps - Instance Perpetual: • Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Enhanced Signaling Resiliency - 25K Active Subscribers Perpetual	Description: Enhanced Signaling Resiliency (ESR) provides additional mechanisms that focus on enhancing service continuity, fault tolerance, and efficient signaling within the 5G core network. Prerequisites: One of the following licenses is required as a prerequisite to license and use Oracle Communications Cloud Native Core, Enhanced Signaling Resiliency - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - 25K Active Subscribers Perpetual*

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: Advanced Overload Mechanism : This subproduct adds following optional features to the Oracle Communications Cloud Native Core Policy Control Function (PCF) As network environments become more dynamic and traffic surges are increasingly unpredictable, robust overload management is crucial to maintaining service quality and availability. This feature now delivers an enhanced overload handling feature, providing: • Granular Overload Controls • Smart Request Handling • Assume Positive Action • Configurable Treatment per Use Case • Seamless Integration with Existing Features Prerequisites: The following licenses are prerequisites to Oracle Communications Cloud Native Core, Advanced Routing – 25K Active Subscribers Perpetual: • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers Perpetual • Oracle Communications Cloud Native Core, Converged Policy - 25K Active Subscribers
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 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 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 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 - 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 Function 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 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, 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 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 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 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 D - 25K Active Subscribers	Description: This sub-product adds the following optional features to Binding Support Function. Support for Aspen Service Mesh parametersSubscriber identity in 5G messages 3GPP SBI Correlation customizationSupport for Health API using HTTP2 OPTIONSCustom environment complianceSupport 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 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 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 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, 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.

Product	Sub product	Licensing Information
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.
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.

Product	Sub product	Licensing Information
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. 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 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 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 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
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. 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, Policy Control Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network. Network Function license provides Console and Data Tier capabilities. Prerequisites: None. Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: PCF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function for NB-IoT (PCF NB-IoT) allows the customer to support centralized policy management in their 5G core network. Prerequisites: None. Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy Control Function for NB-IoT - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: PCF NB-IoT counts unique device identifiers as it processes messages.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. This functionality provides the Right to Use the Cloud Native Core Policy and Charging Rules Function (cnPCRF). The cnPCRF allows the customer to support centralized policy management in their 4G core network. It includes PCRF functionality. Network Function license provides Console and Data Tier capabilities. Prerequisites: None. Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: cnPCRF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Routing and Selection Domain - 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.

Product	Sub product	Licensing Information
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.

Product	Sub product	Licensing Information
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 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, 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 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 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 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, 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 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, 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 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, 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 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, 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 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 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 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, 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 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 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 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 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 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 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 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 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 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, 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

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, 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, 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
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

Product	Sub product	Licensing Information
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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack I - 25K Active Subscribers	Description: This sub-product adds the following optional features to Converged Policy: • Immediate report handling support for SM-Data on N36 · • Performance testing of ASM custom metrics · • Support for SM service during overload condition and enhancement in rejection · • Enhancement of policy authorization service - sponsored data, connectivity procedure and update to event subscription • Handling of AMF updates with change in AMF ID • Support for DNN replacement and Slice Support feature in AM-PCF · • PCF support to display the text names of URSP and UPSI rules in logs · • PCF assume positive support for SM service during overload condition · • Compatibility with Webscale 1.6 for step 2.1.2 (K8s 1.27 & ASM 1.14) · • Spad test: Immediate report handling support for SM-Data on N36 Part · • Spad test: Enhancement of Policy authorization service - sponsored data, connectivity update procedure and update to event subscription · • Spad test: PCF Assume Positive Support for SM Service during Overload Condition - Enhancement in Rejection · Spad test: Support for DNN replacement and slice support feature in AM-PCF · • Spad test: PCF assume positive support for SM service during overload condition · • Support even CPUs on WS 1.6 Prerequisites: Any one of the following licenses is a prerequisite to license and use Oracle Communications Cloud Native Core, Converged Policy Feature Pack I - 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, Service Communication Proxy Feature Pack I - 25K Active Subscribers	Description: This sub-product adds the following optional features to Service Communication Proxy: • SCP shall support discovery and routing to 5G roaming proxy • Compatibility with Webscale 1.6 for step 2.1.2 (K8s 1.27 & ASM 1.14) • Support even CPUs on WS 1.6 • Disable mTLS on SCP-DBTier communication • SCP to support 1000+ NF instances across network using • Compatibility with Webscale 1.6 for step 2.2 (K8s 1.27 & ASM 1.21.x) • Console, DBTier, OSO and ASM Pod profiles to support even CPUs on WS 1.6 Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack I - 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack I - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Repository Function. • CG Support for WS 1.6 for step 2.1.2 (K8s 1.27 & ASM 1.14) • Subscription support per segment of 1500 • NRF, DBTier, Console, OSO, ASM Pod Profiles to support even CPUs on WS 1.6 Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Repository Function Feature Pack I - 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 I - per 25K Active Subscribers	Description: This sub-product adds the following optional features to Binding Support Function. • Compatibility with Webscale 1.6 for step 2.1.2 (K8s 1.27 & ASM 1.14) • Support for SBI-Message priority Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Binding Support Function Feature Pack I - 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, Network Slice Selection Function Feature Pack I - 25K Active Subscribers	Description: This sub-product adds the following optional features to Network Slice Selection Function. - Disabling mTLS · Require to support higher number of TAI/Snssai combination · - Support for ASM 1.21.x · - Type-B Audit Compliance · - OSO alert manager to send alerts using Kafka bus directly & integration with VMB · - Support for WS 1.6 for step 2.1.2 (K8s 1.27 & ASM 1.14.x) Prerequisites: The following license is a prerequisite to license and use Oracle Communications Cloud Native Core, Network Slice Selection Function Feature Pack I - 25K Active Subscribers: - Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers

① 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.

① 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.

① 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

3.1 Commercial Software

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

Provider	Component(s)	Licensing Information
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The sections below identify the open source components used by each Oracle Communications Cloud Native Core subproduct. The licensing information can be found in section **Cloud Native Core Licensing Information**.

3.2.1 Oracle Communications Cloud Native Core, Cloud Native Environment 26.1.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Environment 26.1.200:

- Ansible 9.13.0
- Ansible 10.7.0
- bind-utils 9.16.23-31.0.1.el9_6
- bind-utils 9.16.23-34.0.1.el9_7.1
- boto3 1.40.52
- cert-exporter 2.15.1
- cert-exporter 2.17.0
- cloud-provider-openstack 1.35.0
- confluent-kafka 2.11.0
- croniter 6.0.0
- cryptography 48.0.0
- csi-driver-nfs 4.12.1
- dnsmasq 2.85-17.el9_6
- dnsmasq 2.85-18.el9_7
- exabgp 4.2.25
- external-attacher 4.8.1
- external-attacher 4.10.0
- external-attacher 4.9.0
- external-snapshotter 8.2.1
- external-snapshotter 8.2.0
- external-snapshotter 8.4.0
- external-snapshotter 8.3.0
- fastapi 0.116.1
- Flask 3.1.3
- gevent 25.9.1
- GNU findutils 4.8.0-7
- gnu tar 1.34-7
- grub2 2.06-104.0.1.el9_6
- gunicorn 25.3.0
- gzip 1.12-1.el9
- iproute 6.17.0-2.el9
- iptables-nft 1.8.10-11.el9_5

- iputils 20210202-15.0.1.el9_7
- iputils 20210202-11.0.1.el9_6.3
- ipvsadm 1.31-6.el9
- Jaeger 2.14.1
- Jinja2 3.1.6
- jmespath 1.1.0
- jq 1.6-17.el9
- jsonschema 4.25.1
- kube-apiserver 1.35.6
- kube-controller-manager 1.35.6
- kubectl 1.33.7-1
- kubectl 1.32.7-1
- kube-proxy 1.35.6
- Kubernetes CSI external-provisioner 5.2.0
- Kubernetes CSI external-resizer 1.14.0
- Kubernetes CSI livenessprobe 2.17.0
- Kubernetes CSI livenessprobe 2.15.0
- Kubernetes CSI node-driver-registrar 2.15.0
- Kubernetes Python Client 35.0.0
- kubernetes-csi external-resizer 1.13.2
- kubernetes-csi node-driver-registrar 2.13.0
- kube-scheduler 1.35.6
- Kubespray 2.30.0
- kube-state-metrics 2.17.0
- kube-state-metrics 2.18.0
- Kyverno 1.18.0
- markupsafe 3.0.2
- MetalLB 0.15.2
- metrics-server 0.8.0
- multus-cni 4.2.4
- netaddr 1.3.0
- Nginx 1.24.0-4.0.1.module+el9.5.0+90543+4953bb61.1
- Node Exporter 1.9.1
- node-exporter 1.10.2
- OCI Grafana 7.5.17_1.0.4
- OpenSSH 8.7p1-46.0.2.el9
- OpenSSL 3.5.5-2.0.1.el9_8
- openstacksdk 4.4.0

- openstacksdk 4.5.0
- openstacksdk 4.7.1
- 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
- Paramiko 4.0.0
- pbr 7.0.0
- pbr 7.0.3
- procs-ng 3.3.17-14.0.1.el9
- Prometheus 3.9.1
- Prometheus 3.11.2
- Prometheus AlertManager 0.28.0
- Prometheus AlertManager 0.32.0
- Prometheus Python Client 0.23.1
- prometheus-operator 0.85.0
- prometheus-operator 0.88.1
- Promxy 0.0.92
- pypi/urllib3 2.7.0
- pypi/uvicorn 0.35.0
- pyroute2 0.9.5
- Python 3.12.12-4.0.1.el9_7.3
- Python3.12-pip 23.2.1-5.el9
- python-json-logger 3.3.0
- python-openstackclient 7.4.0
- python-openstackclient 8.0.0
- python-openstackclient 8.2.0
- PyYAML 6.0.3
- PyYAML 6.0.2
- requests 2.33.1
- requests 2.32.5
- Rook 1.17.7
- Rook 1.18.10
- 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
- velero 1.17.1
- Velero Plugin for AWS 1.13.1
- vSphere Cloud Provider 1.35.0
- vSphere CSI Driver 3.6.0
- whereabouts 0.9.3
- xmlltodict 1.0.2
- zip 3.0-35

3.2.2 Oracle Communications Cloud Native Core, cnDBTier 26.1.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, cnDBTier 26.1.200:

- Licensed Item Name Licensed Item Version
- Apache commons-lang3 3.20.0
- Apache log4j-core 2.25.4
- Apache log4j-slf4j2-impl 2.25.4
- APScheduler 3.11.0
- APScheduler 3.11.1
- croniter 6.0.0
- Flask 3.1.3
- GNU findutils 4.8.0-7
- gnu tar 1.34-7
- Injector 0.23.0
- iputils 20210202-11.0.1.el9_6.3
- jackson-databind 2.21.1
- jq 1.16-17
- kubectl 1.32.7-1
- Kubernetes Java Client 25.0.0
- OpenSSH 8.7p1-46.0.2.el9
- OpenSSL 3.2.2-6.0.1.el9_5.1
- Paramiko 4.0.0
- procps-ng 3.3.17-14.0.1.el9
- prometheus-client 0.23.1
- Python 3.12.9-1.el9_6.2

- Python3.12-pip 23.2.1-5.el9
- python-json-logger 4.0.0
- requests 2.33.1
- Schedule 1.2.2
- setuptools 68.2.2-4.el9
- SQLAlchemy 2.0.45
- tcpdump 4.99.0-9
- UnZip 6.0-57.0.1
- waitress 3.0.2
- zip 3.0-35
- zlib 1.2.11-40.el9

3.2.3 Oracle Communications Cloud Native Core, Certificate Management 26.1.200

The following is the list of components for Oracle Communications Cloud Native Core, Certificate Management 26.1.200:

- Apache commons-compress 1.27.1
- Apache log4j-core 2.25.4
- Apache log4j-slf4j2-impl 2.25.3
- bind-utils 9.16.23-34.0.1
- bind-utils 9.16.23-40.0.1
- curl 7.76.1-35.el9_7.3
- curl 7.76.1-40.el9_7.3
- GNU BASH 5.1.8-9.el9
- gnu tar 1.34-9
- gnu tar 1.34-11
- Google protobuf-java 3.25.6
- Guava 33.5.0-jre
- iproute 6.17.0-2.el9
- iputils 20210202-15.0.1.el9_7
- jackson-databind 2.21.4
- jackson-datatype-joda 2.21.1
- jackson-module-afterburner 2.21.1
- jersey-media-json-jackson 3.1.9
- Jetty 12.0.33
- Jetty 12.0.31
- Jetty ReactiveStream HttpClient 4.0.12
- JSON in Java 20250517

- Kubernetes Client Java 7.4.0
- Kubernetes Java Client 24.0.0
- Kubernetes Java Client 25.0.0
- log4j-jul 2.24.3
- log4j-layout-template-json 2.25.4
- net-tools 2.0-0.64.20160912git.el9
- Okio 3.10.2
- OpenSSL 3.6.3
- reactor-core 3.7.12
- tcpdump 4.99.0-9

3.2.4 Oracle Communications Cloud Native Configuration Console 26.1.200 Components

The following is the list of components for Oracle Communications Cloud Native Configuration Console 26.1.200:

- Apache commons-io 2.18.0
- Apache commons-lang3 3.20.0
- Apache log4j-core 2.25.4
- Apache log4j-slf4j2-impl 2.25.3
- Apache log4j-slf4j2-impl 2.25.4
- Apache log4j-slf4j2-impl 2.25.4
- Apache log4j-web 2.25.3
- Apache log4j-web 2.25.4
- bcpkix-jdk18on 1.81
- bind-utils 9.16.23-34.0.1
- bind-utils 9.16.23-40.0.1
- Blockly 12.0.0
- bucket4j_jdk17-coherence 8.16.0
- bucket4j_jdk17-core 8.16.0
- bzip2-libs 1.0.8-10.el9_5
- bzip2-libs 1.0.8-11
- Commons Codec 1.17.2
- curl 7.76.1-35.el9_7.3
- curl 7.76.1-40.el9_7.3
- date-fns 4.1.0
- dnsjava 3.6.3
- Expressly 6.0.0
- Fastjson2 2.0.38

- GNU BASH 5.1.8-9.el9
- gnu tar 1.34-11
- grpc-context 1.75.0
- grpc-netty 1.75.0
- GSON 2.13.2
- Guava 33.5.0-jre
- hapi 21.4.8
- hibernate.validator/hibernate-validator 9.0.1.Final
- HikariCP 6.3.3
- iproute 6.14.0-2.el9
- iproute 6.17.0-2.el9
- iputils 20210202-15.0.1.el9_7
- jackson-databind 2.18.6
- jackson-databind 2.21.2
- jackson-databind 2.21.4
- jackson-databind 2.21.1
- jackson-dataformat-yaml 2.21.1
- jackson-dataformat-yaml 2.21.2
- jackson-datatype-joda 2.21.1
- jackson-datatype-joda 2.18.6
- jackson-module-afterburner 2.21.1
- Jakarta Activation API (JAF) 2.1.4
- Jakarta Annotations API 3.0.0
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta Validation API 3.1.1
- Jakarta XML Binding API (JAXB) 4.0.4
- jakarta.persistence-api 3.2.0
- jersey-client 3.1.11
- jersey-common 3.1.11
- jersey-hk2 3.1.11
- jersey-media-json-jackson 3.1.11
- Jetty 12.0.31
- Jetty 12.0.33
- Jetty ReactiveStream HttpClient 4.0.12
- jjwt-api 0.13.0
- jjwt-impl 0.13.0
- jjwt-jackson 0.13.0
- JSON in Java 20250517

- jsonEditor 10.3.0
- json-path 2.10.0
- json-schema-validator 1.5.8
- json-smart 2.5.2
- json-smart 2.6.0
- Keycloak 26.5.7
- Kubernetes Client Java 7.4.0
- Kubernetes Java Client 24.0.0
- libffi 3.4.2-8.el9
- log4j-api 2.25.3
- Log4j-API 2.25.4
- log4j-layout-template-json 2.25.2
- log4j-layout-template-json 2.25.4
- log4j-layout-template-json 2.25.3
- log4j-slf4j-impl 2.25.3
- Lombok 1.18.36
- Lombok 1.18.42
- micrometer-registry-prometheus 1.15.4
- Mocha 11.7.5
- net-tools 2.0-0.64.20160912git.el9
- Nimbus JOSE+JWT 9.37.4
- npm/copy-webpack-plugin 13.0.0
- npm/ipaddr.js 2.3.0
- npm/JQuery 3.7.1
- npm/jsdom 26.1.0
- npm/winston 3.19.0
- openssl-lib 3.5.1-7.0.1.el9_7
- openssl-lib 3.5.5-4.0.1.el9_8
- opentelemetry-exporter-otlp 1.54.1
- opentelemetry-javaagent 2.20.1
- opentelemetry-sdk 1.54.1
- org.javassist/javassist 3.30.2-GA
- org.xerial.snappy:snappy-java 1.1.10.8
- PyInstaller 6.20.0
- pypi/opentelemetry-api 1.54.1
- Python 3.12.12-4.0.1.el9_7.3
- Python 3.12.13-3.0.1.el9_8
- reactor-core 3.7.12

- SnakeYAML 2.5
- Spring Boot (CGIU only) 3.5.12
- springdoc-openapi-starter-webmvc-ui 2.8.13
- swagger.core.v3/swagger-annotations 2.2.43
- tcpdump 4.99.0-9
- TypeScript 5.9.3
- undertow-websockets-jsr 2.3.23.Final
- xz-libs 5.2.5-8.el9_0
- zip.js 2.8.15
- zlib 1.2.11-40.el9

3.2.5 Oracle Communications Cloud Native Core, Security Edge Protection Proxy 26.1.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Security Edge Protection Proxy 26.1.200:

- Apache Commons Text 1.14.0
- Apache commons-io 2.19.0
- Apache log4j-core 2.25.4
- Apache log4j-slf4j2-impl 2.25.3
- Apache log4j-slf4j2-impl 2.25.4
- Apache log4j-web 2.25.4
- bind-utils 9.16.23-40.0.1
- bind-utils 9.16.23-34.0.1
- bucket4j_jdk17-coherence 8.16.0
- bucket4j_jdk17-core 8.16.0
- Commons Codec 1.17.2
- curl 7.76.1-40.el9_7.3
- dnsjava 3.6.3
- drools-decisiontables 10.1.0
- Drools-mvel 10.1.0
- Expiring Map 0.5.11
- GNU BASH 5.1.8-9.el9
- Google protobuf-java 4.30.1
- grpc-netty 1.75.0
- GSON 2.13.2
- Guava 33.5.0-jre
- HikariCP 6.3.0
- httpx 0.28.1

- iproute 6.17.0-2.el9
- jackson-databind 2.18.6
- jackson-databind 2.21.1
- jackson-databind 2.21.4
- jackson-datatype-joda 2.21.1
- jackson-datatype-joda 2.18.6
- Jakarta Activation API (JAF) 2.1.4
- Jakarta Annotations API 3.0.0
- Jakarta Restful Web Services JAX-RS API 4.0.0
- Jakarta Validation API 3.1.1
- Jakarta XML Binding API (JAXB) 4.0.4
- jakarta.jakartaee-api 11.0.0
- jakarta.persistence-api 4.0.0-M1
- 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 12.0.33
- Jetty ReactiveStream HttpClient 4.0.9
- Jetty ReactiveStream HttpClient 4.0.12
- jjwt-api 0.13.0
- jjwt-impl 0.13.0
- jjwt-jackson 0.13.0
- JSON in Java 20250517
- json-path 2.10.0
- json-schema-validator 1.5.8
- json-smart 2.5.2
- json-smart 2.6.0
- Kubernetes Client Java 7.4.0
- Kubernetes Java Client 24.0.0
- Kubernetes Java Client 25.0.0
- Kubernetes Python Client 33.1.0
- LMAX Disruptor 3.4.2
- Log4j-API 2.25.4
- log4j-layout-template-json 2.25.2
- log4j-layout-template-json 2.25.3
- log4j-layout-template-json 2.25.4

- Lombok 1.18.36
- micrometer-registry-prometheus 1.13.6
- moshi 1.15.2
- net-tools 2.0-0.64.20160912git.el9
- netty-transport-native-epoll 4.2.7.Final
- opentelemetry-exporter-otlp 1.62.0
- opentelemetry-javaagent 2.20.1
- opentelemetry-sdk 1.54.1
- opentelemetry-sdk 1.62.0
- Prometheus Python Client 0.21.1
- pypi/opentelemetry-api 1.54.1
- pypi/opentelemetry-api 1.62.0
- python-mysqldb 2.2.7
- reactor-core 3.7.12
- reactor-netty 1.3.0
- slf4j-api 2.0.17
- Spring Boot (CGIU only) 3.5.12
- springdoc-openapi-starter-webmvc-ui 2.8.13
- swagger.core.v3/swagger-annotations 2.2.39
- tcpdump 4.99.0-9
- zjsonpatch 0.5.0

3.2.6 Oracle Communications Cloud Native Core, OCI Adaptor 26.1.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, OCI Adaptor 26.1.200:

- Kubernetes Java Client 24.0.0
- log4j-layout-template-json 2.25.4
- Apache log4j-slf4j2-impl 2.25.4
- opentelemetry-collector 0.154.0

3.2.7 Oracle Communications Cloud Native Core, Network Slice Selection Function 26.1.200 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Slice Selection Function 26.1.200:

- LMAX Disruptor 3.4.2
- jersey-media-json-jackson 3.1.9
- jersey-hk2 3.1.9

- json-schema-validator 1.5.5
- Okio 3.10.2
- Google protobuf-java 3.25.6
- json-smart 2.5.2
- Jetty 11.0.25
- JSON in Java 20250517
- org.xerial.snappy:snappy-java 1.1.10.8
- jjwt-api 0.13.0
- jjwt-jackson 0.13.0
- bcpxix-jdk18on 1.81
- pypi/opentelemetry-api 1.54.1
- opentelemetry-sdk 1.54.1
- Nimbus JOSE+JWT 9.37.4
- opentelemetry-exporter-otlp 1.54.1
- Spring Boot (CGIU only) 3.1.20.1
- Guava 33.5.0-jre
- reactor-core 3.7.12
- Jetty 12.0.30
- jakarta.persistence-api 3.2.0
- jjwt-impl 0.13.0
- Kubernetes Client Java 7.4.0
- slf4j-api 2.0.17
- jackson-datatype-joda 2.21.0
- jackson-module-afterburner 2.21.1
- jackson-dataformat-yaml 2.21.1
- jackson-datatype-joda 2.21.1
- log4j-layout-template-json 2.25.4
- Apache log4j-slf4j2-impl 2.25.4
- jackson-databind 2.21.2
- Log4j-API 2.25.4
- Apache log4j-web 2.25.4
- Apache log4j-slf4j2-impl 2.25.4
- jackson-databind 2.21.4
- netty-transport-native-epoll 4.2.15.Final
- undertow-core 2.3.18.Final
- jackson-core 2.18.1
- pypi/opentelemetry-api 1.46.0
- opentelemetry-sdk 1.46.0

- jackson-databind 2.18.1
- Spring Boot (CGIU only) 3.1.15
- Apache commons-io 2.18.0
- log4j-layout-template-json 2.25.2
- log4j-api 2.25.3
- jakarta.json-api 2.1.3
- Jetty ReactiveStream HttpClient 4.0.9
- HikariCP 6.3.0
- jackson-dataformat-yaml 2.21.0
- Eclipse Parsson 1.1.7
- micrometer-registry-prometheus 1.15.5
- jackson-databind 2.21.0
- log4j-jul 2.24.3
- jakarta.jakartaee-web-api 11.0.0
- netty-transport-native-epoll 4.2.7.Final
- hibernate.validator/hibernate-validator 9.0.1.Final
- Kubernetes Java Client 24.0.0
- jakarta.jakartaee-api 11.0.0
- Apache commons-io 2.19.0
- jackson-module-afterburner 2.21.0
- Apache log4j-web 2.25.3
- log4j-slf4j-impl 2.25.3
- Apache log4j-slf4j2-impl 2.25.3
- Kubernetes Java Client 25.0.0
- Jetty 12.0.33
- Apache log4j-core 2.25.4
- jackson-dataformat-yaml 2.21.2
- jackson-module-afterburner 2.21.2
- jackson-datatype-joda 2.21.2

3.2.8 Oracle Communications Cloud Native Core, Licensing Information

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

Provider	Component (s)	Licensing Information
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		----- drools-core 7.67.0.Final drools-compiler 7.67.0.Final drools-templates 7.67.0.Final drools-core-reflective 7.67.0.Final drools-core-dynamic 7.67.0.Final drools-ecj 7.67.0.Final drools-mvel 7.67.0.Final The Apache Software License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt /* * Copyright 2015 Red Hat, Inc. and/or its affiliates. * * Licensed under the Apache License, Version 2.0 (the "License"); * you may not use this file except in compliance with the License. * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software * distributed under the License is distributed on an "AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. * See the License for the specific language governing permissions and * limitations under the License. */ ----- ----- ----- ---Dependency slf4j-api MIT License http://www.opensource.org/licenses/mit-license.php Begin license text. /** * Copyright (c) 2004-2011 QOS.ch * All rights reserved. * See Appendix G

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Benoît Chesneau	gunicorn 21.2.0 gunicorn 23.0.0	Gunicorn 2009-2018 (c) Benoît Chesneau <benoitc@e-engura.org> 2009-2015 (c) Paul J. Davis <paul.joseph.davis@gmail.com> Gunicorn is released under the MIT license. See the LICENSE file for the complete license. gunicorn.logging_config ----- Copyright 2001-2005 by Vinay Sajip. All Rights Reserved. Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Vinay Sajip not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. gunicorn.debug ----- Based on eventlet.debug module under MIT license: Unless otherwise noted, the files in Eventlet are under the following MIT License See Appendix G gunicorn.reloaders ----- Based on greins.reloaders module under MIT license: 2010 (c) Meebo, Inc. MIT License See Appendix G doc/sitemap_gen.py ----- Under BSD License : Copyright (c) 2004, 2005, Google Inc.

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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----- (separator)----- . . . ----- Copyright notices ----- Copyright 2000-2010 Willy Tarreau Copyright (C) 2019 HAProxy Technologies, Christopher Faulet Copyright 2019 HAProxy Technologies, Frédéric Lécaille Copyright 2012 Exceliance, David Du Colombier Copyright 2018 Joyent, Inc. Copyright 2014 Baptiste Assmann Copyright (C) 2020 HAProxy Technologies, William Lallemand Copyright 2020 HAProxy Technologies, Emeric Brun Copyright 2009-2010 Krzysztof Piotr Oledzki Copyright 2019 HAProxy Technologies, Olivier Houchard Copyright (C) 2009-2015, Linus Torvalds and others. Copyright 2021 Tim Duesterhus Copyright (c) 2018-2020 Cesanta Software Limited Copyright 2015 Horms Solutions Ltd, Simon Horman

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

Provider	Component (s)	Licensing Information
		explained at http://creativecommons.org/publicdomain/zero/1.0/ KineticJS, v4.7.1 * License: MIT license (http://www.opensource.org/licenses/mit-license.php) * Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS * Copyright: Eric Rowell org.objectweb.asm Version 9.7 * License: Modified BSD (https://asm.ow2.io/license.html) * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved. org.osgi.core version 6.0.0 * License: Apache License, 2.0 * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved. org.glassfish.jersey.server.internal.monitoring.core * License: Apache License, 2.0 * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved. * Copyright 2010-2013 Coda Hale and Yammer, Inc. W3.org documents * License: W3C License * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/ Eclipse Public License Version 2 The GNU General Public License (GPL) Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor Boston, MA 02110-1335 USA Apache 2.0

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
		The following dependencies are EPL and CDDL 1.0. * org.eclipse.jetty.orbit:javax.mail.glassfish If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes. The modifications are 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 -----

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

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

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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

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

Provider	Component (s)	Licensing Information
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		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
		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

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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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		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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jsonwebtoken.io, Technology	jjwt 0.10.7	TOP-LEVEL COMPONENTS: io.jsonwebtoken:jjwt-api:0.10.7 io.jsonwebtoken:jjwt-impl:0.10.7 io.jsonwebtoken:jjwt-jackson:0.10.7 COPYRIGHT NOTICE Copyright (C) 2019 jsonwebtoken.io This program is licensed to you under the Apache License Version 2.0, and you may not use this file except in compliance with the Apache License Version 2.0. You may obtain a copy of the Apache License Version 2.0 at http://www.apache.org/licenses/LICENSE-2.0. Unless required by applicable law or agreed to in writing, software distributed under the Apache License Version 2.0 is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License Version 2.0 for the specific language governing permissions and limitations there under. Extract as it is from NOTICE.md : <pre>## Base64 implementation JJWT's `io.jsonwebtoken.io.Base64` implementation is based on [MigBase64](https://github.com/brsanthu/migbase64) with continued modifications for Base64 URL support and additional test cases. The MigBase64 copyright and license notice have been retained and are repeated here per that code's requirements: Licence (BSD): ===== Copyright (c) 2004, Mikael Grev, MiG InfoCom AB. (base64 @ miginfocom . com) All rights reserved. BSD License- See Appendix N ----- TOP-LEVEL LICENSE TEXT for io.jsonwebtoken:jjwt-api:0.10.7 io.jsonwebtoken:jjwt-impl:0.10.7 io.jsonwebtoken:jjwt-jackson:0.10.7 Apache License, Version 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #1 com.fasterxml.jackson.core:jackson-annotations:2.10.1 FOURTH-PARTY DEPENDENCY #1 COPYRIGHT NOTICES Copyright © 2008–2017 FasterXML. All rights reserved. ----- FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-core:2.10.1</pre>

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		created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF. All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases. <table><thead><tr><th>Release Owner</th><th>Derived GPL-</th><th>Year</th><th>compatible? (1)</th></tr></thead><tbody><tr><td>from</td><td></td><td></td><td></td></tr><tr><td>rea</td><td>1991-1995</td><td>CWI</td><td>yes</td></tr><tr><td>1.3 thru 1.5.2</td><td>1.2</td><td>1995-1999</td><td></td></tr><tr><td>CNRI</td><td>yes</td><td></td><td></td></tr><tr><td>1.6</td><td>1.5.2</td><td>2000</td><td></td></tr><tr><td>CNRI</td><td>no</td><td></td><td></td></tr><tr><td>2.0</td><td>1.6</td><td>2000</td><td></td></tr><tr><td>BeOpen.com</td><td>no</td><td></td><td></td></tr><tr><td>1.6.1</td><td>1.6</td><td>2001</td><td></td></tr><tr><td>CNRI</td><td>yes (2)</td><td></td><td></td></tr><tr><td>2.1</td><td>2.0+1.6.1</td><td>2001</td><td></td></tr><tr><td>PSF</td><td>no</td><td></td><td></td></tr><tr><td>2.0.1</td><td>2.0+1.6.1</td><td>2001</td><td></td></tr><tr><td>PSF</td><td>yes</td><td></td><td></td></tr><tr><td>2.1.1</td><td>2.1+2.0.1</td><td>2001</td><td></td></tr><tr><td>PSF</td><td>yes</td><td></td><td></td></tr><tr><td>2.1.2</td><td>2.1.1</td><td>2002</td><td></td></tr><tr><td>PSF</td><td>yes</td><td></td><td></td></tr><tr><td>2.1.3</td><td>2.1.2</td><td>2002</td><td></td></tr><tr><td>PSF</td><td>yes</td><td></td><td></td></tr><tr><td>2.2 and above</td><td>2.1.1</td><td>2001-now</td><td></td></tr><tr><td>PSF</td><td>yes</td><td></td><td></td></tr></tbody></table> Footnotes: (1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't. (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,	Release Owner	Derived GPL-	Year	compatible? (1)	from				rea	1991-1995	CWI	yes	1.3 thru 1.5.2	1.2	1995-1999		CNRI	yes			1.6	1.5.2	2000		CNRI	no			2.0	1.6	2000		BeOpen.com	no			1.6.1	1.6	2001		CNRI	yes (2)			2.1	2.0+1.6.1	2001		PSF	no			2.0.1	2.0+1.6.1	2001		PSF	yes			2.1.1	2.1+2.0.1	2001		PSF	yes			2.1.2	2.1.1	2002		PSF	yes			2.1.3	2.1.2	2002		PSF	yes			2.2 and above	2.1.1	2001-now		PSF	yes		
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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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===== File 6 of 38: ext/bcmath/libbcmath/src/add.c
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===== File 8 of 38: ext/calendar: dow.c
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=====
===== File 12 of 38: ext/gd/libgd/README
=====
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the GD library itself. We felt it would be worthwhile to make sure everyone had access to the
features of GD and by bundling GD with PHP we have a known target to work against. In
addition to the above, a number of motivated PHP hackers have expressed an interest in
extending the functionality of the PHP-GD combination. By putting a version of GD into PHP
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===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c
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 ===== File 29 of 38: sapi/cli/php_http_parser.c

=====
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 ===== File 30 of 38: sapi/fpm/fpm/fpm_log.c

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===== File 38 of 38: Zend/zend_strtod.c
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expression-eval

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

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jsep -

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

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Hammer.JS

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Normalize.scss

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RequireJS i18n

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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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Dependencies

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

@opentelemetry/instrumentation-grpc
@opentelemetry/instrumentation-hapi
@opentelemetry/instrumentation-http
@opentelemetry/instrumentation-ioredis
@opentelemetry/redis-common
@opentelemetry/instrumentation-knex
@opentelemetry/instrumentation-koa
@opentelemetry/instrumentation-lru-memoizer
@opentelemetry/instrumentation-memcached
@opentelemetry/instrumentation-mongodb
@opentelemetry/sdk-metrics
@opentelemetry/instrumentation-mongoose
@opentelemetry/instrumentation-mysql
@opentelemetry/instrumentation-mysql2
@opentelemetry/sql-common
@opentelemetry/instrumentation-nestjs-core
@opentelemetry/instrumentation-net
@opentelemetry/instrumentation-pg
@opentelemetry/instrumentation-pino
@opentelemetry/instrumentation-redis-4
@opentelemetry/instrumentation-redis
@opentelemetry/instrumentation-restify
@opentelemetry/instrumentation-router
@opentelemetry/instrumentation-socket.io
@opentelemetry/instrumentation-tedious
@opentelemetry/instrumentation-winston
@opentelemetry/resource-detector-alibaba-cloud
@opentelemetry/resource-detector-aws
@opentelemetry/resource-detector-container
@opentelemetry/resource-detector-gcp
@opentelemetry/sdk-node
@opentelemetry/api-logs
@opentelemetry/exporter-jaeger
@opentelemetry/sdk-logs

@opentelemetry/exporter-trace-otlp-grpc
@opentelemetry/otlp-grpc-exporter-base
@opentelemetry/otlp-exporter-base
@opentelemetry/otlp-transformer
@opentelemetry/sdk-trace-base
@opentelemetry/exporter-trace-otlp-http
@opentelemetry/exporter-trace-otlp-proto
@opentelemetry/otlp-proto-exporter-base
@opentelemetry/exporter-zipkin
@opentelemetry/sdk-trace-node
@opentelemetry/context-async-hooks
@opentelemetry/propagator-b3
@opentelemetry/propagator-jaeger