

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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Introduction

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Licensing Information

Refer to the table below for information on:

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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Cloud Native Environment - 25K Active Subscribers	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 - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Signaling - 25K Active Subscribers • Oracle Communications Cloud Native Core, Diameter Routing Agent - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - 25K Active Subscribers • Oracle Communications Cloud Native Core , Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers

Product	Sub product	Licensing Information
		• Oracle Communications Cloud Native Core , Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Management - 25K Active Subscribers • Oracle Communications Cloud Native Core, Unstructured Data Storage Function - 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers	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 per 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 - per 25K Active Subscribers: Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: Since Unified Data Management is a prerequisites for AUSF. Unified Data Management counts unique device identifiers that it has activated.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 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 - per 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
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- per 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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Binding Support Function (BSF) provides session binding functionality, which ensures request for session reaches the relevant PCF holding the session information. This service: - Allows Network Function (NF) consumers to register, update and remove the binding information; and - Allows Network Function (NF) consumers to retrieve the binding information. 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, Binding Support Function - per 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: BSF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Binding Support Function Feature Pack B - per 25K Active Subscribers	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 - per 25K Active Subscribers: Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers	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 - 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 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 - per 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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers	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 - 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.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Exposure Function (NEF) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF. The NEF 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 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 Exposure Function - per 25K Active Subscribers, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: NEF 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 - per 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 - 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: 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 - per 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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Repository Function – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers	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 - 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: 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, 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.

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 - per 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 - 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.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers	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 - 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: SEPP 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 - per 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 - 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: 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 - per 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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers	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 per 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 –per 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 - 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: SLF counts unique device identifiers as it processes messages.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack B – per 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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers	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 - 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: UDR 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 - per 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 per 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 – per 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 - 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: 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 - Per Node	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 – per 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Converged Policy Feature Pack A - per 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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy Feature Pack A - per 25K Active Subscribers	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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Service Communication Proxy – per 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Subscriber Location Function Feature Pack A - per 25K Active Subscribers	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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Repository Function Feature Pack A - per 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 - per 25K Active Subscribers: • Oracle Communications Cloud Native Core, Network Repository Function – per 25K Active Subscribers

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment for NB-IoT - 25K Active Subscribers Perpetual	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

Product	Sub product	Licensing Information
		Oracle Communications Cloud Native Core, Unstructured Data Storage Function for NB-IoT - 25K Active Subscribers Perpetual
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Exposure Function for NB-IoT - 25K Active Subscribers Perpetual	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

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Slice Selection Function for NB-IoT - 25K Active Subscribers Perpetual	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
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.

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Service Communication Proxy for NB-IoT - 25K Active Subscribers Perpetual	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 per 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, 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, Binding Support Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Binding Support Function for NB-IoT (BSF NB-IoT) provides session binding functionality, which ensures request for session reaches the relevant PCF NB-IoT holding the session information. This service: - Allows Network Function (NF) consumers to register, update and remove the binding information; and - Allows Network Function (NF) consumers to retrieve the binding information. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Binding Support Function for NB-IoT - 25K Active Subscribers Perpetual, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: BSF 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, 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.
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, 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.
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual	Description: This sub product adds the following features to the Oracle Communications Cloud Native Core. This functionality provides the Right to Use the Cloud Native Core Policy and Charging Rules Function for NB-IoT (cnPCRF NB-IoT). The cnPCRF NB-IoT allows the customer to support centralized policy management in their 4G core network. It includes PCRF NB-IoT functionality. Prerequisites: None Entitled Products and Restricted Use Licenses: A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function for NB-IoT - 25K Active Subscribers Perpetual includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions. Counting Mechanism: cnPCRF NB-IoT counts unique device identifiers as it processes messages.

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

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

 Note:

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

 Note:

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

 Note:

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

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

 Note:

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

**Note:**

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

**Note:**

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

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

3

Third-Party Notices and/or Licenses

3.1 Commercial Software

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

Provider	Component(s)	Licensing Information
N/A	N/A	N/A

3.2 Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Communications Cloud Native Core are identified in the following sections along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

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

3.2.1 Oracle Communications Cloud Native Core, Cloud Native Environment 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Cloud Native Environment 23.3.0:

- Crontier 1.4.0
- exabgp 4.2.21
- Flask 2.3.2
- HAproxy 2.6.7
- Injector 0.20.1
- Jenkins 2.386
- Kubernetes Python Client 25.3.0
- Kubespray 2.22.0
- OpenLDAP 2.5.14
- Oracle OpenSearch 2.3.0
- Oracle OpenSearch Dashboards 2.3.0

- Prometheus Python Client 0.15.0
- python-json-logger 2.0.7
- python-openstackclient 6.1.0
- PyYAML 6.0
- Schedule 1.2.0
- Spring-boot-starter 3.1.2
- spring-boot-starter-actuator 3.1.2
- spring-boot-starter-data-jpa 3.1.2
- spring-boot-starter-log4j2 3.1.2
- spring-boot-starter-test 3.1.2
- spring-boot-starter-undertow 3.1.2
- spring-boot-starter-validation 3.1.2
- spring-boot-starter-web 3.1.2
- spring-boot-starter-webflux 3.1.2
- SQLAlchemy 2.0.16
- vcd-cli 24.1.0

3.2.2 Automated Test Suite 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Automated Test Suite (ATS) 23.3.0:

- Apache HTTP Server 2.4.37-56.0.1
- behave 1.2.6
- Blue Ocean 1.27.4
- colorlog 6.7.0
- dnspython 2.2.1
- Flask 2.3.2
- geckodriver 0.32.0
- HTML Publisher Plug-in 1.31
- httpx 0.23.3
- jackson-annotations 2.14.1
- jackson-databind 2.14.1
- jackson-dataformat-yaml 2.14.1
- Jenkins 2.416
- Jenkins active choices plug-in 2.7
- JMeter 5.6.2
- jsonmerge 1.9.0
- jwcrypto 1.5.0

- Kubernetes & OpenShift Java Client 6.6.0
- Kubernetes & OpenShift Java Client 6.7.2
- Kubernetes Python Client 26.1.0
- Login Theme Plugin for Jenkins 46.v36f624efb_23d
- Matrix Authorization Strategy Plug-in 3.1.8
- Opensearch Python Client 2.2.0
- Paramiko 3.0.0
- Pipeline Plugin 596.v8c21c963d92d
- pyyaml 6.0.1
- Quart 0.18.4
- regex 2023.6.3
- requests 2.31.0
- Selenium - Python 4.10.0
- Simple Theme Plugin for Jenkins 160.vb_76454b_67900
- slf4j-api 2.0.6
- SnakeYAML 2.0
- test-results-analyzer-plugin 0.4.0
- TinyDB 4.8.0

3.2.3 Oracle Communications Cloud Native Configuration Console 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Configuration Console 23.3.0:

- @oracle/ojet-cli 14.1.0
- bind-utils 9.11.36-5
- Blockly 8.0.0
- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0
- Commons Lang 3.12.0
- file-saver 2.0.5
- gnu tar 1.30-6
- GSON 2.10
- Guava 31.1
- HikariCP 5.0.1
- jackson-databind 2.13.4.2
- jackson-datatype-joda 2.13.4

- Javassist 3.29.2-GA
- jersey-client 2.39
- jersey-common 2.39
- jersey-hk2 2.39
- jersey-media-json-jackson 2.39
- Jetty 11.0.15
- Jetty ReactiveStream HttpClient 1.1.12
- Jetty ReactiveStream HttpClient 3.0.8
- js-yaml 4.1.0
- Keycloak 21.0.2
- Kubernetes Client Java 6.1.1
- Kubernetes Java Client 16.0.0
- lodash 4.17.21
- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.1
- Lombok 1.18.22
- micrometer-registry-prometheus 1.9.4
- micrometer-registry-prometheus 1.9.5
- mocha 10.2.0
- net-tools 2.0-0.52.20160912git
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.28
- spring-boot-devtools 2.7.13
- Spring-boot-starter 2.7.13
- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-jdbc 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-oauth2-client 2.7.13
- spring-boot-starter-oauth2-resource-server 2.7.13
- spring-boot-starter-test 2.7.13
- spring-boot-starter-undertow 2.7.13

- spring-boot-starter-validation 2.7.13
- spring-boot-starter-web 2.7.13
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- spring-kafka 2.9.9
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final
- winston 3.6.0

3.2.4 Oracle Communications Cloud Native Core, Network Exposure Function 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Exposure Function 23.3.0:

- bind-utils 9.11.36-5
- bucket4j 7.6.0
- caffeine 3.0.5
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.13.0
- dnsjava 3.5.1
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 32.0.1
- HttpComponents Client 5.1.3
- ipaddress 5.3.4
- jackson-databind 2.13.4.2
- jackson-databind 2.13.5
- Jakarta Bean Validation API 3.0.2
- jersey-client 2.39
- Jetty 11.0.15
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.1.2
- jjwt 0.11.5
- JSON in Java 20230227
- json-path 2.8.0
- json-schema-validator 1.0.74

- json-smart 2.4.10
- Kubernetes Java Client 16.0.0
- log4j-layout-template-json 2.17.2
- Lombok 1.18.28
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.4
- micrometer-registry-prometheus 1.9.5
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- okhttp-logging-interceptor 4.11.0
- opentelemetry-api 1.28.0
- opentelemetry-sdk 1.28.0
- python-mysqldb 2.1.1
- reactor-core 3.4.18
- reactor-core 3.5.0
- requests 2.28.2
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.28
- spring-boot-devtools 2.7.13
- Spring-boot-starter 2.7.13
- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-data-jpa 2.7.13
- spring-boot-starter-jdbc 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-oauth2-client 2.7.13
- spring-boot-starter-oauth2-resource-server 2.7.13
- spring-boot-starter-test 2.7.13
- spring-boot-starter-undertow 2.7.13
- spring-boot-starter-validation 2.7.13
- spring-boot-starter-web 2.7.13
- spring-boot-starter-webflux 2.7.13
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- spring-kafka 2.9.9

- spring-security-core 5.8.5
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final
- waitress 2.1.2

3.2.5 Oracle Communications Cloud Native Core, Network Repository Function 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Repository Function 23.3.0:

- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.13.0
- dnsjava 3.5.1
- Flask 2.3.2
- Guava 31.1
- Guava 32.0.1
- gunicorn 21.2.0
- ipaddress 5.3.4
- jackson-databind 2.13.5
- Jetty 11.0.15
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.1.2
- jjwt 0.11.5
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- log4j-layout-template-json 2.17.2
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.9.4
- micrometer-registry-prometheus 1.9.5
- NumPy 1.22.3
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- Prometheus Python Client 0.17.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- python-dateutil 2.8.2

- python-mysqclient 2.1.1
- PyYAML 6.0
- requests 2.28.2
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.28
- Spring-boot-starter 2.7.13
- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-cache 2.7.13
- spring-boot-starter-data-jpa 2.7.13
- spring-boot-starter-jdbc 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-oauth2-client 2.7.13
- spring-boot-starter-oauth2-resource-server 2.7.13
- spring-boot-starter-test 2.7.13
- spring-boot-starter-undertow 2.7.13
- spring-boot-starter-validation 2.7.13
- spring-boot-starter-web 2.7.13
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4

3.2.6 Oracle Communications Cloud Native Core, Network Slice Selection Function 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Network Slice Selection Function 23.3.0:

- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.11.0
- dnsjava 3.5.1
- Guava 31.1
- HttpComponents Client 5.1.3
- ipaddress 5.3.4
- jackson-core 2.13.1
- jackson-databind 2.13.4.2
- Jetty 11.0.15

- Jetty 11.0.11
- jjwt 0.11.5
- json-schema-validator 1.0.74
- Kubernetes Java Client 16.0.0
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.4
- opentelemetry-api 1.25.0
- opentelemetry-exporter-jaeger-thrift 1.25.0
- opentelemetry-sdk-trace 1.25.0
- opentracing-spring-jaeger-web-starter 3.3.1
- opentracing-spring-web-starter 4.1.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- reactor-netty-http 1.0.24
- SnakeYAML 1.32
- SnakeYAML 2.0
- Spring Cloud Starter Gateway 3.0.7
- spring-boot-devtools 2.7.13
- Spring-boot-starter 2.7.13
- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-data-jpa 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-validation 2.7.13
- spring-boot-starter-web 2.7.13
- spring-boot-starter-webflux 2.7.13
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8 2.1.0
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- spring-kafka 2.9.9
- Spring-Security-Config 5.7.8
- spring-security-core 5.7.8
- Undertow 2.3.0.Final

3.2.7 Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Security Edge Protection Proxy 23.3.0:

- bind-utils 9.11.36-5
- Brave OpenTracing Java Bridge for Zipkin 1.0.0
- bucket4j 7.6.0
- coherence-spring-boot-starter 3.3.0
- Commons IO 2.13.0
- Commons Lang 3.12.0
- Commons Lang 3.13.0
- dnsjava 3.5.1
- Drools 8.32.0.Final
- Drools-mvel 8.32.0.Final
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 31.1
- HttpComponents Client 5.1.3
- HttpComponents HttpClient 4.5.14
- ipaddress 5.3.4
- jackson-annotations 2.14.1
- jackson-annotations 2.15.2
- jackson-core 2.13.1
- jackson-core 2.15.2
- jackson-databind 2.13.4.2
- jackson-databind 2.14.1
- jackson-databind 2.15.2
- jackson-databind 2.13.5
- jackson-datatype-joda 2.15.2
- jersey-client 2.39
- jersey-hk2 2.39
- jersey-media-json-jackson 2.39
- Jetty 11.0.15
- Jetty ReactiveStream HttpClient 1.1.12
- Jetty ReactiveStream HttpClient 3.0.8

- Jinja2 3.1.2
- jjwt 0.11.5
- JSON in Java 20230227
- JsonPath 2.7.0
- json-schema-validator 1.0.71
- json-schema-validator 1.0.74
- junit-vintage-engine 5.9.2
- Kubernetes Client Java 6.1.1
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- LMAX Disruptor 3.4.2
- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-layout-template-json 2.17.2
- log4j-web 2.17.1
- Logback 1.3.1
- matplotlib 3.7.1
- micrometer-registry-prometheus 1.9.4
- micrometer-registry-prometheus 1.9.5
- micrometer-registry-prometheus 1.9.5
- micrometer-registry-prometheus 1.11.0
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- Protocol Buffers (aka Google protobuf) 3.21.7
- python-dateutil 2.8.2
- python-mysqldb 2.1.1
- PyYAML 6.0
- reactor-core 3.4.18
- reactor-core 3.5.0
- requests 2.28.2
- SnakeYAML 1.32
- Spring Cloud Starter Gateway 3.0.7
- Spring Framework 5.3.28
- Spring-boot-starter 2.7.13

- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-cache 2.7.13
- spring-boot-starter-data-jpa 2.7.13
- spring-boot-starter-jdbc 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-oauth2-client 2.7.13
- spring-boot-starter-oauth2-resource-server 2.7.13
- spring-boot-starter-test 2.7.13
- spring-boot-starter-undertow 2.7.13
- spring-boot-starter-validation 2.7.13
- spring-boot-starter-web 2.7.11
- spring-boot-starter-web 2.7.13
- spring-boot-starter-webflux 2.7.11
- spring-boot-starter-webflux 2.7.13
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- springdoc-openapi-ui 1.6.4
- spring-kafka 2.9.9
- Spring-Security-Config 5.7.8
- spring-security-core 5.7.8
- Spring-Security-Web 5.7.8
- tcpdump 4.9.3-3
- Undertow 2.3.0.Final
- waitress 2.1.2
- xnio-nio 3.8.8.Final

3.2.8 Oracle Communications Cloud Native Core, Service Communication Proxy 23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Service Communication Proxy 23.3.0:

- bind-utils 9.11.36-5
- bucket4j 7.6.0
- dnsjava 3.5.1
- Drools 8.32.0.Final
- Drools-mvel 8.32.0.Final
- gnu tar 1.30-6

- ipaddress 5.3.4
- jackson-databind 2.15.2
- jackson-dataformat-yaml 2.15.2
- jackson-datatype-joda 2.15.2
- jackson-module-afterburner 2.15.2
- Jetty 11.0.15
- Jetty ReactiveStream HttpClient 3.0.8
- JSON in Java 20230227
- Kubernetes Java Client 16.0.0
- micrometer-registry-prometheus 1.11.0
- net-tools 2.0-0.52.20160912git
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- reactor-core 3.4.18
- Spring Retry 2.0.1
- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-data-jpa 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-undertow 2.7.13
- spring-boot-starter-validation 2.7.13
- spring-boot-starter-webflux 2.7.13
- springdoc-openapi-ui 1.6.14
- spring-kafka 2.9.9
- tcpdump 4.9.3-3
- zjsonpatch 0.4.12

3.2.9 Oracle Communications Cloud Native Core, Unified Data Repository

23.3.0 Components

The following is the list of components for Oracle Communications Cloud Native Core, Unified Data Repository 23.3.0:

- bind-utils 9.11.36-5
- bucket4j 7.6.0
- caffeine 3.0.5
- coherence-spring-boot-starter 3.3.2
- Commons Codec 1.16.0
- Commons IO 2.13.0

- Commons Text 1.10.0
- CXF 3.5.5
- dnsjava 3.5.1
- Flask 2.3.2
- gnu tar 1.30-6
- GSON 2.10
- Guava 32.0.1
- gunicorn 21.2.0
- HttpComponents Client 5.1.3
- ipaddress 5.3.4
- jackson-core 2.13.1
- jackson-databind 2.13.4.2
- jackson-databind 2.14.1
- jackson-datatype-joda 2.13.5
- jersey-client 2.39
- jersey-hk2 2.39
- Jetty 9.4.48.v20220622
- Jetty 9.4.51.v20230217
- Jetty 11.0.15
- Jetty ReactiveStream HttpClient 1.1.12
- Jetty ReactiveStream HttpClient 3.0.8
- Jinja2 3.1.2
- jjwt 0.11.5
- JSON in Java 20230227
- JSON Schema 1.14.1
- json-schema-validator 1.0.74
- Kubernetes Client Java 6.1.1
- Kubernetes Java Client 16.0.0
- Kubernetes Python Client 24.2.0
- log4j-api 2.17.1
- log4j-core 2.17.1
- log4j-layout-template-json 2.17.2
- log4j-slf4j-impl 2.17.1
- log4j-web 2.17.1
- Lombok 1.18.28
- micrometer-registry-prometheus 1.9.1
- micrometer-registry-prometheus 1.9.4

- mockito-inline 4.6.1
- net-tools 2.0-0.52.20160912git
- NumPy 1.22.3
- okhttp-logging-interceptor 4.11.0
- opentelemetry-api 1.28.0
- opentelemetry-exporter-otlp 1.28.0
- opentelemetry-sdk 1.28.0
- pandas 2.0.2
- Prometheus Python Client 0.17.0
- python-dateutil 2.8.2
- PyYAML 6.0
- requests 2.31.0
- SnakeYAML 1.32
- Spring Batch 4.3.6
- Spring Cloud Starter Gateway 3.0.7
- Spring Retry 2.0.1
- Spring-boot-starter 2.7.13
- spring-boot-starter-actuator 2.7.13
- spring-boot-starter-jdbc 2.7.13
- spring-boot-starter-log4j2 2.7.13
- spring-boot-starter-oauth2-client 2.7.13
- spring-boot-starter-oauth2-resource-server 2.7.13
- spring-boot-starter-test 2.7.13
- spring-boot-starter-undertow 2.7.13
- spring-boot-starter-web 2.7.13
- spring-cloud-kubernetes-fabric8-discovery 2.1.3
- spring-cloud-starter-kubernetes-fabric8-all 2.1.3
- spring-cloud-starter-kubernetes-fabric8-config 2.1.3
- spring-cloud-starter-kubernetes-fabric8-loadbalancer 2.1.3
- springdoc-openapi-ui 1.6.4
- spring-integration-core 5.5.13
- spring-integration-file 5.5.13
- tcpdump 4.9.3-3

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The Legion Of The Bouncy Castle	bcpkix-jdk18on 1.76	

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

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		org.apache.tomcat:tomcat-jsp-api org.apache.tomcat:tomcat-el-api org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-api org.apache.tomcat:tomcat-util-scan org.apache.tomcat:tomcat-util org.mortbay.jasper:apache-el org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-el-api ----- Mortbay The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html org.eclipse.jetty.toolchain:jetty-schemas ----- Assorted The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies. --- ch.qos.logback » logback-classic 1.2.3 COPYRIGHT and LICENSE: Logback LICENSE ----- Logback: the reliable, generic, fast and flexible logging framework. Copyright (C) 1999-2015, QOS.ch. All rights reserved. This program and the accompanying materials are dual-licensed under either the terms of the Eclipse Public License v1.0 as published by the Eclipse Foundation or (per the licensee's choosing) under the terms of the GNU Lesser General Public License version 2.1 as published by the Free Software Foundation. LGPL v2.1 - See Appendix T ---- org.apache.httpcomponents » httpclient 4.5.5 COPYRIGHT: Copyright 1999-2018 The Apache Software Foundation LICENSE: Apache 2.0

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

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Eli Grey	file-saver 2.0.5	https://github.com/eligrey/FileSaver.js/blob/master/LICENSE.md -----separator----- MIT License See Appendix G -----separator-----

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Free Software Foundation	gnu tar 1.30-5	GNU GENERAL PUBLIC LICENSE 3.0 - See Appendix E

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

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

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

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Provider	Component (s)	Licensing Information
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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
		* javax.annotation:javax.annotation-api * javax.transaction:javax.transaction-api * javax.websocket:javax.websocket-api 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

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

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Provider	Component (s)	Licensing Information
		distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html * java.sun.security.ssl The following dependencies are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html * org.ow2.asm:asm-commons * org.ow2.asm:asm The following dependencies are ASL2 licensed. * org.apache.taglibs:taglibs-standard-spec * org.apache.taglibs:taglibs-standard-impl The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed. * org.mortbay.jasper:apache-jsp * org.apache.tomcat:tomcat-jasper * org.apache.tomcat:tomcat-juli * org.apache.tomcat:tomcat-jsp-api * org.apache.tomcat:tomcat-el-api * org.apache.tomcat:tomcat-jasper-el * org.apache.tomcat:tomcat-api * org.apache.tomcat:tomcat-util-scan * org.apache.tomcat:tomcat-util * org.mortbay.jasper:apache-el * org.apache.tomcat:tomcat-jasper-el * org.apache.tomcat:tomcat-el-api The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html * org.eclipse.jetty.toolchain:jetty-schemas Cryptography ----- Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted. The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password

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

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

Provider	Component (s)	Licensing Information
Jetty	Jetty ReactiveStream HttpClient 1.1.10 Jetty ReactiveStream HttpClient 1.1.12	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. -----seperator----- FOURTH-PARTY DEPENDENCY #2 org.eclipse.jetty:jetty-client 9.4.40.v20210413

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

Provider	Component (s)	Licensing Information
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jsonwebtoken.io, Technology	jjwt 0.10.7 jjwt 0.11.5	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 : ## 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

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		profit organization 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> <tr> <th>Release Owner</th><th>Derived GPL-</th><th>Year</th></tr> <tr> <td>0.9.0 thru 1.2</td><td></td><td>1991-1995</td></tr> <tr> <td>CWI</td><td>yes</td><td></td></tr> <tr> <td>1.3 thru 1.5.2</td><td>1.2</td><td>1995-1999</td></tr> <tr> <td>CNRI</td><td>yes</td><td></td></tr> <tr> <td>1.6</td><td>1.5.2</td><td>2000</td></tr> <tr> <td>CNRI</td><td>no</td><td></td></tr> <tr> <td>2.0</td><td>1.6</td><td>2000</td></tr> <tr> <td>BeOpen.com</td><td>no</td><td></td></tr> <tr> <td>1.6.1</td><td>1.6</td><td>2001</td></tr> <tr> <td>CNRI</td><td>yes (2)</td><td></td></tr> <tr> <td>2.1</td><td>2.0+1.6.1</td><td>2001</td></tr> <tr> <td>PSF</td><td>no</td><td></td></tr> <tr> <td>2.0.1</td><td>2.0+1.6.1</td><td>2001</td></tr> <tr> <td>PSF</td><td>yes</td><td></td></tr> <tr> <td>2.1.1</td><td>2.1+2.0.1</td><td>2001</td></tr> <tr> <td>PSF</td><td>yes</td><td></td></tr> <tr> <td>2.1.2</td><td>2.1.1</td><td>2002</td></tr> <tr> <td>PSF</td><td>yes</td><td></td></tr> <tr> <td>2.1.3</td><td>2.1.2</td><td>2002</td></tr> <tr> <td>PSF</td><td>yes</td><td></td></tr> <tr> <td>2.2 and above</td><td>2.1.1</td><td>2001-now</td></tr> <tr> <td>PSF</td><td>yes</td><td></td></tr> </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	Release Owner	Derived GPL-	Year	0.9.0 thru 1.2		1991-1995	CWI	yes		1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes		1.6	1.5.2	2000	CNRI	no		2.0	1.6	2000	BeOpen.com	no		1.6.1	1.6	2001	CNRI	yes (2)		2.1	2.0+1.6.1	2001	PSF	no		2.0.1	2.0+1.6.1	2001	PSF	yes		2.1.1	2.1+2.0.1	2001	PSF	yes		2.1.2	2.1.1	2002	PSF	yes		2.1.3	2.1.2	2002	PSF	yes		2.2 and above	2.1.1	2001-now	PSF	yes	
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		GPL; the others don't. (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL. Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible. B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2 ----- 1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation. 2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee. 3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such

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fabric8io	Kubernetes & OpenShift Java Client 6.6.0 Kubernetes & OpenShift Java Client 6.7.2 Kubernetes & OpenShift Java Client 5.12.2	Apache License Version 2.0, January 2004 http://www.apache.org/licenses/ See Appendix E

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The OpenTelemetry Authors	opentelemetry-sdk 1.28.0	

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

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

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Selenium	Selenium - Python 4.10.0	APACHE 2.0 - See Appendix E

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

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===== File 3 of 38: configure

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===== File 4 of 38: header

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===== File 5 of 38: build/shtool

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===== File 6 of 38: ext/bcmath/libbcmath/src/add.c
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===== File 12 of 38: ext/gd/libgd/README

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

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===== File 27 of 38: ext/zip/lib/zip.h
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===== File 28 of 38: main/mergesort.c
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===== File 34 of 38: win32/flock.c
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Chai

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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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Knockout Fast Foreach

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<http://proj4js.org/>

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require-css

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Hammer.JS

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

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Normalize.scss

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RequireJS i18n

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

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select2.js

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

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jQuery UI -

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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