Oracle® Communications

Cloud Native Core

Licensing Information User Manual

Release 2.0.3

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ORACLE®

Oracle Communications Cloud Native Core Licensing Information User Manual, Release 2.0.3

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1. Introduction

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2. Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment – per 25K Active Subscribers	**Description:** This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Function Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network. **Prerequisites:** Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core, Network Function Cloud Native Environment – 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 – per 25K Active Subscribers Oracle Communications Cloud Native Core, Diameter Routing Agent – per 25K Active Subscribers Oracle Communications Cloud Native Core, InterWorking and Mediation Function – per 25K Active Subscribers Oracle Communications Cloud Native Core, Network Exposure Function – per 25K Active Subscribers Oracle Communications Cloud Native Core, Network Repository Function – per 25K Active Subscribers Oracle Communications Cloud Native Core, Network Slice Selection Function – per 25K Active Subscribers Oracle Communications Cloud Native Core, Policy Control Function – per 25K Active Subscribers Oracle Communications Cloud Native Core, Policy and Charging Rules Function – per 25K Active Subscribers Oracle Communications Cloud Native Core, Routing and Selection Domain – per 25K Active Subscribers Oracle Communications Cloud Native Core, Security Edge Protection Proxy – per 25K Active Subscribers Oracle Communications Cloud Native Core, Service Communication Proxy – per 25K Active Subscribers Oracle Communications Cloud Native Core, Unified Data Repository – per 25K Active Subscribers Oracle Communications Cloud Native Core, Unstructured Data Storage Function – per 25K Active Subscribers

Product	Subproduct	Licensing Information
	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. **Prerequisites**: None
	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. Cloud Native Policy and Charging Rules Function (cnPCRF) includes 3GPP PCRF functionality per the Oracle statement of Compliance for OCPM Releases. 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 – 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, Converged Policy – per 25K Active Subscribers.
	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. **Prerequisites**: None

Product	Subproduct	Licensing Information
	Oracle Communications Cloud Native Core, Diameter Routing Agent – per 25K Active Subscribers	**Description:** This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Diameter Routing Agent (DRA) provides ability to route diameter messages between Network Functions (NF) in the 4G network **Prerequisites:** The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Diameter Routing Agent – per 25K Active Subscribers: Oracle Communications Common Signaling – per Signaling Unit – per Message per Second
	Oracle Communications Cloud Native Core, InterWorking and Mediation Function – per 25K Active Subscribers	**Description:** This subproduct adds the following features to the Oracle Communications Cloud Native Core. The InterWorking and Mediation (IWF) Function provides Interworking and mediation function between HTTP ⇔ HTTP and HTTP ⇔ Diameter that allow access to the services and capabilities provided by network entities. **Prerequisites:** The following license is prerequisite to license and use Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers: Customer must purchase a license of InterWorking and Mediation Function (IWF) for each separately purchased Network Function (NF) where the customer requires IWF whether deploying all functions on one node or on separate nodes. When licensed in the Routing and Selection offering, pricing includes the use of IWF for the following five functions deployed in the same node: Service Communication Proxy (SCP), Network Slice Selection Function (NSSF), Binding Support Function (BSF), Security Edge Protection Proxy (SEPP), and Network Exposure Function (NEF). IWF is not applicable to Network Repository Function (NRF).

Product	Subproduct	Licensing Information
	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 **Prerequisites**: None
	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. **Prerequisites**: None
	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. **Prerequisites**: None

Product	Subproduct	Licensing Information
	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. It includes Network Access Selection, Access and Mobility Management, and Network Slice Selection **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, Policy Control Function – per 25K Active Subscribers.
	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. The Policy and Charging Rules Function (PCRF) includes 3GPP PCRF functionality as per Oracle statement of Compliance for OCPM Releases. This license is based on the number of concurrent network access sessions allowed within a Policy Management network. A network access session is defined as the association between a user endpoint/device and an IP network. Network Access Sessions represent the peak concurrent sessions measured based on highest busy hour session load within a given Policy Management network. **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, Policy and Charging Rules Function – per 25K Active Subscribers.
	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). **Prerequisites**: None

Product	Subproduct	Licensing Information
	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. **Prerequisites**: None
	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. **Prerequisites**: None
	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. **Prerequisites**: None

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 3.2.13, Cloud Native Core Licensing Information.

3.2.1 Network Function Cloud Native Environment 1.3.2 Components

Ansible 2.7.9-1	python-pip 8.1.2-7
dnsmasq 2.76-7	Python-setuptools 0.9.8-7
Helm 2.9.1	tar 1.26-35
Kubespray 2.10.3.1	wget 1.14-18
Python 2.7.5-86.0.1	

3.2.2 Binding Support Function 1.0.0 Components

HSQLDB 2.4.1	OpenTracing Spring Jaeger Starter 0.1.4
Httpclient 4.5.7	OpenTracing Spring Web 0.3.2
jackson-datatype-joda 2.9.6	SLF4J-1.7.25
JavaScript Extension Toolkit (JET) 5.1.0	Spring Boot 2.1.2
Micrometer 1.0.5	Springfox 2.9.2

3.2.3 Diameter Routing Agent 1.0.0 Components

Httpclient 4.5.7	Micrometer 1.1.2

3.2.4 InterWorking and Mediation Function 1.0.0 Components

commons-validator 1.6.0	OkHttp 3.13.1
Micrometer 1.1.2	-

3.2.5 Network Exposure Function 1.0.0 Components

Guava 27.0.1	Nginx 1.14.2
HSQLDB 2.4.1	OpenTracing Spring Jaeger Starter 0.1.4
Httpclient 4.5.7	OpenTracing Spring Web 0.3.2
jackson-datatype-joda 2.9.6	SLF4J-1.7.25
JavaScript Extension Toolkit (JET) 5.1.0	Spring Boot 2.1.2
Kong 1.0.3	Springfox 2.9.2
Micrometer 1.0.5	-

3.2.6 Network Repository Function 1.2.0 Components

commons-validator 1.6.0	spring-boot-starter-log4j2 2.1.2
Httpclient 4.5.7	spring-boot-starter-undertow 2.1.2
ipaddress 5.0.2	Springfox 2.9.2
JSON-Java 20180813	springfox-swagger-ui 2.9.2
OkHttp 3.13.1	Spring Security 5.1.5.RELEASE
Spring Boot 2.1.7.RELEASE	

3.2.7 Network Slice Selection Function 1.0.0 Components

commons-validator 1.6.0	OkHttp 3.13.1
Guava 27.0.1	spring-boot-actuator 2.1.2
Micrometer 1.1.2	-

3.2.8 Policy Control Function 1.0.0 Components

Akka 2.5.17	lodash 4.17.11
allure2 2.8.0	Logback 1.2.3
AspectJ 1.9.1	Lombok 1.18.4

Blockly 1.20180904	Micrometer 1.0.5
Brave 5.6	micrometer-akka 0.9.0
brave-opentracing 0.33.10	mocha 5.2.0
caffeine 2.6.2	Mybatis Spring Boot Starter 1.3.2
Commons Codec 1.11	Nginx 1.14.2
Commons CSV 1.5	Node.js 10.15.0
Commons IO 2.6	OkHttp 3.13.1
commons-lang3- 3.8.1	OpenResty 1.13.6.2
Commons Pool 2.6.0	OpenTracing API for Java 0.31.0
DropWizard Metrics 4.0.2	opentracing-python 2.0.0
Flask 1.0.2	OpenTracing Spring Jaeger Starter 0.1.4
flask-cors 3.0.7	OpenTracing Spring Web 0.3.2
Flask-SQLAlchemy 2.3.2	Prometheus Client Python 0.5.0
Google Go 1.11.2	psutil 5.5.0
Groovy 2.5.0	Python 3.6.8
GSON 2.8.5	pyyaml 3.13
Guava 27.0	reactor-core 3.1.8.RELEASE
hapi 17.6.0	requests 2.21.0
HikariCP 3.2.0	SLF4J-1.7.25
HSQLDB 2.4.1	Spring Boot 2.1.1.RELEASE
Httpclient 4.5.7	Spring Cloud Stream 2.0.1.RELEASE
HttpCore 4.4.11	Spring Cloud Stream Binder Kafka 2.0.1.RELEASE
jackson-core 2.9.7	Springfox 2.9.2
jackson-datatype-joda 2.9.6	Spring Framework 5.1.3
jaeger-client-python 3.13.0	spring-kafka 2.1.10.RELEASE
JavaScript Extension Toolkit (JET) 5.1.0	WireMock 2.20.0
Jetty 9.4.14.v20181114	XStream 1.4.11.1
JsonPath 2.4.0	Zipkin 2.12.1
Kong 1.0.3	zipkin-reporter-java 2.7.15
LMAX-Exchange disruptor 3.4.2	-

3.2.9 Policy and Charging Rules Function 1.0.0 Components

AspectJ 1.9.1	LMAX-Exchange disruptor 3.4.2
Brave 5.6	Logback 1.2.3
brave-opentracing 0.33.10	Lombok 1.18.4
Commons CSV 1.6	Micrometer 1.1.4
Commons IO 2.6	OpenTracing API for Java 0.32.0
commons-lang3- 3.8.1	opentracing-spring-jaeger-cloud-starter 1.0.2
Commons Pool 2.6.1	OpenTracing Spring Web 1.1.1
DropWizard Metrics 4.0.5	SLF4J-1.7.26
Guava 27.0	Spring Boot 2.1.1.RELEASE
Httpclient 4.5.7	Spring Cloud Stream 2.0.1.RELEASE
HttpCore 4.4.11	Spring Cloud Stream Binder Kafka 2.0.1.RELEASE
influxdb-java 2.14	Springfox 2.9.2
jackson-core 2.9.7	XStream 1.4.11.1
jackson-datatype-joda 2.9.7	Zipkin 2.12.1
Java DogStatsD Client 2.6.1	zipkin-reporter-java 2.7.15
JsonPath 2.4.0	-

3.2.10   Security Edge Protection Proxy 1.2.1 Components

commons-lang3- 3.8.1	OkHttp 3.13.1
Guava 27.0.1	Spring Boot 2.1.7.RELEASE

3.2.11   Service Communication Proxy 1.2.1 Components

commons-lang3- 3.8.1	OkHttp 3.13.1
Httpclient 4.5.7	Spring Boot 2.1.7.RELEASE
jackson-dataformat-yaml 2.9.8	Springfox 2.9.2
JSON-Java 20180813	springfox-swagger-ui 2.9.2
Kubernetes Java Client library 4.0.0	Spring Retry 1.2.4.RELEASE

3.2.12   Unified Data Repository 1.3.0 Components

Commons Beanutils 1.9.4	Micrometer 1.1.2
Commons IO 2.6	OkHttp 3.13.1
Guava 27.0.1	Spring Boot 2.1.7.RELEASE
Httpclient 4.5.7	spring-boot-starter 2.1.7
jackson-databind 2.9.10	spring-boot-starter-actuator 2.1.7.RELEASE
JSON-Java 20180813	spring-boot-starter-log4j2 2.1.7.RELEASE
JsonPath 2.4.0	spring-boot-starter-web 2.1.7.RELEASE
JSON Schema 1.11.0	spring-boot-starter-undertow 2.1.7.RELEASE
Kubernetes Java Client library 4.0.0	Springfox 2.9.2

3.2.13   Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
Lightbend Inc.	Akka 2.5.17	Copyright 2009-2017 Lightbend Inc.
		APACHE 2.0 –See Appendix E
		===========
		The following 4th party libraries are under the Apache 2.0 License:
		com.typesafe # ssl-config-core_2.12 # 0.2.1
		Copyright (C) 2015 - 2018 Lightbend Inc.
		com.typesafe # config # 1.3.1
		Copyright (C) 2011-2012 Typesafe Inc.
		io.netty # netty # 3.10.6.Final
		Copyright 2014 The Netty Project
		io.aeron # aeron-client # 1.2.5
		io.aeron # aeron-driver # 1.2.5
		org.agrona # agrona # 0.9.5
		Copyright 2014-2018 Real Logic Ltd.
		com.github.jnr # jffi # 1.2.14
		Copyright (C) 2009 Wayne Meissner

Provider	Component(s)	Licensing Information
		com.github.jnr # jnr-constants # 0.9.6
		com.github.jnr # jnr-ffi # 2.1.2
		Copyright (C) 2008-2010 Wayne Meissner
		org.lmdbjava # lmdbjava # 0.0.5
		Copyright (C) 2016 - 2018 The LmdbJava Open Source Project
		APACHE 2.0 –See Appendix E
		===========================
		The following 4th party libraries are under BSD License
		org.ow2.asm # asm # 5.0.3
		org.ow2.asm # asm-analysis # 5.0.3
		org.ow2.asm # asm-commons # 5.0.3
		org.ow2.asm # asm-tree # 5.0.3
		org.ow2.asm # asm-util # 5.0.3
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Provider	Component(s)	Licensing Information
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Kubernetes	Helm 2.9.1	APACHE 2.0 – See Appendix E
		--
		Fourth Party dependencies:
		Package: cloud.google.com/go
		URL: https://code.googlesource.com/gocloud
		Version: 3b1ae45394a234c385be014e9a488f2bb6eef821
		Person: Google
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/aokoli/goutils
		URL: https://github.com/aokoli/goutils
		Version: 9c37978a95bd5c709a15883b6242714ea6709e64
		Person: @aokoli [Alex]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/asaskevich/govalidator
		URL: https://github.com/asaskevich/govalidator
		Version: 7664702784775e51966f0885f5cd27435916517b

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		--
		Package: github.com/aws/aws-sdk-go
		URL: https://github.com/aws/aws-sdk-go
		Version: 760741802ad40f49ae9fc4a69ef6706d2527d62e
		Person: @aws [Amazon Web Services]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/Azure/go-ansiterm
		URL: https://github.com/Azure/go-ansiterm
		Version: 19f72df4d05d31cbe1c56bfc8045c96babff6c7e
		Person: @Azure [Microsoft Azure]
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		--
		Package: github.com/Azure/go-autorest
		URL: https://github.com/Azure/go-autorest
		Version: e14a70c556c8e0db173358d1a903dca345a8e75e
		Person: @Azure [Microsoft Azure]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/beorn7/perks
		URL: https://github.com/beorn7/perks
		Version: 3ac7bf7a47d159a033b107610db8a1b6575507a4
		Person: @beorn7 [Björn Rabenstein]
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		--
		Package: github.com/chai2010/gettext-go
		URL: https://github.com/chai2010/gettext-go
		Version: bf70f2a70fb1b1f36d90d671a72795984eab0fcb
		Person: @chai2010 [chai2010]
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		URL: https://github.com/dgrijalva/jwt-go
		Version: 01aeca54ebda6e0fbfafd0a524d234159c05ec20
		Person: @dgrijalva [Dave Grijalva]
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		Package: github.com/docker/distribution
		URL: https://github.com/docker/distribution
		Version: edc3ab29cdff8694dd6feb85cfeb4b5f1b38ed9c
		Person: @docker [Docker]
		APACHE 2.0 – See Appendix E

		Package: github.com/docker/docker
		URL: https://github.com/docker/docker
		Version: 4f3616fb1c112e206b88cb7a9922bf49067a7756
		Person: @docker [Docker]
		APACHE 2.0 – See Appendix E

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		Package: github.com/docker/go-connections
		URL: https://github.com/docker/go-connections
		Version: 3ede32e2033de7505e6500d6c868c2b9ed9f169d
		Person: @docker [Docker]
		APACHE 2.0 – See Appendix E

		Package: github.com/docker/go-units
		URL: https://github.com/docker/go-units
		Version: 9e638d38cf6977a37a8ea0078f3ee75a7cdb2dd1
		Person: @docker [Docker]
		APACHE 2.0 – See Appendix E

		Package: github.com/docker/spdystream
		URL: https://github.com/docker/spdystream
		Version: 449fdfce4d962303d702fec724ef0ad181c92528
		Person: @docker [Docker]
		APACHE 2.0 – See Appendix E

		Package: github.com/emicklei/go-restful
		URL: https://github.com/emicklei/go-restful
		Version: ff4f55a206334ef123e4f79bbf348980da81ca46
		Person: @emicklei [Ernest Micklei]
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		Package: github.com/evanphx/json-patch
		URL: https://github.com/evanphx/json-patch
		Version: 944e07253867aacae43c04b2e6a239005443f33a
		Person: @evanphx [Evan Phoenix]
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		--
		Package: github.com/ghodss/yaml
		URL: https://github.com/ghodss/yaml
		Version: 73d445a93680fa1a78ae23a5839bad48f32ba1ee
		Person: @ghodss [Sam Ghods]
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		URL: https://github.com/go-ini/ini
		Version: 300e940a926eb277d3901b20bdfcc54928ad3642
		Person: @go-ini [null]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/go-openapi/jsonpointer
		URL: https://github.com/go-openapi/jsonpointer
		Version: 46af16f9f7b149af66e5d1bd010e3574dc06de98
		Person: @go-openapi [OpenAPI Initiative golang toolkit]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/go-openapi/jsonreference
		URL: https://github.com/go-openapi/jsonreference
		Version: 13c6e3589ad90f49bd3e3bbe2c2cb3d7a4142272
		Person: @go-openapi [OpenAPI Initiative golang toolkit]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/go-openapi/spec
		URL: https://github.com/go-openapi/spec
		Version: 7abd5745472fff5eb3685386d5fb8bf38683154d
		Person: @go-openapi [OpenAPI Initiative golang toolkit]
		APACHE 2.0 – See Appendix E
		--
		Package: github.com/go-openapi/swag
		URL: https://github.com/go-openapi/swag
		Version: f3f9494671f93fcff853e3c6e9e948b3eb71e590
		Person: @go-openapi [OpenAPI Initiative golang toolkit]
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		avalon-framework v4.3.1
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		xalan v2.7.1
		Apache Xalan (Xalan XSLT processor)
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FasterXML, LLC	jackson-datatype-joda 2.9.6	APACHE 2.0 – See Appendix E 4th party dependencies: jackson-annotations 2.9.0, Apache 2.0 jackson-core 2.9.6, Apache 2.0 jackson-databind 2.9.6, Apache 2.0

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		APACHE 2.0 – See Appendix E
FasterXML, LLC	jackson-datatype-joda 2.9.7	APACHE 2.0 – See Appendix E
		4th party dependencies:
		jackson-annotations 2.9.0, Apache 2.0
		jackson-core 2.9.6, Apache 2.0
		jackson-databind 2.9.6, Apache 2.0
		joda-time 2.7, Apache 2.0
		APACHE 2.0 – See Appendix E
Uber Technologies	jaeger-client-python 3.13.0	Copyright (c) 2016-2018 Uber Technologies, Inc.
		APACHE 2.0 – See Appendix E
		+++
		Below are 4th party dependencies
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		The _random module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:
		A C-program for MT19937, with initialization improved 2002/1/26.
		Coded by Takuji Nishimura and Makoto Matsumoto.
		Before using, initialize the state by using init_genrand(seed) or

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    a. Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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

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

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

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Appendix B.   GNU General Public License, Version 2 (GPL-2.1)

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. In addition, you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute, and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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1. This License Agreement applies to any software library or other program, which contains a notice placed by the copyright holder, or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you."

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

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

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

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3. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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4. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

6. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library." Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library." The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

e. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

8. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

    a. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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Appendix C.   GNU Lesser General Public License, version 3 (LGPL-3)

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18. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

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

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

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

19. Exception to Section 3 of the GNU GPL.

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

20. Conveying Modified Versions.

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

a.   under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b.   under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

21. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a.   Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b.   Accompany the object code with a copy of the GNU GPL and this license document.

22. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a. Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

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

c. For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d. Do one of the following:

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

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

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

23. Combined Libraries.

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

a. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

24. Revised Versions of the GNU Lesser General Public License.

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If the Library as you received, it specifies a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

Appendix D.   Apache License, Version 1.1 (Apache 1.1)

The Apache Software License, Version 1.1

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 * v0.12.0 (2013/01/21 13:47)

 */

ES6-Promise v1.0.0

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```
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 *
 * Support: IE8+, FF3+, Opera 9+, Safari, Chrome and other
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 * Update: 2014-03-24 13:14
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* http://jqueryui.com
* Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js
* Copyright 2015 jQuery Foundation and other contributors; Licensed MIT */
```

```
/*!
 * jQuery JavaScript Library v2.2.3
 * http://jquery.com/
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 *
 * Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors
 * Released under the MIT license
 * http://jquery.org/license
 *
 * Date: 2014-12-18T15:11Z
```

```
 */

/** @license
 * JS Signals <http://millermedeiros.github.com/js-signals/>
 * Released under the MIT license
 * Author: Miller Medeiros
 * Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)
 */

/**
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 */

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*/


/*!
 * Knockout JavaScript library v3.4.2
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```

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Mozilla Public License, version 2.0

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Version 2.1, February 1999

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