Oracle® Communications Policy Management

Licensing Information User Manual

Release 15.0

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Oracle Communications Policy Management Licensing Information User Manual Release 15.0

Contents

Introduction

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Licensing Information

Product	Sub product	Licensing Information
Oracle Communications Policy Management	Oracle Communications Policy Management Configuration Management Platform (Base Fee) —per Server Metric	This product provides the following base Policy Configuration Management functionality: Policy Wizard, Provisioning, SNMP support, KPI Dashboard, Session Viewer, and OSSI XML Interface. **Prerequisites:** None **Included Products:** MySQL Enterprise Edition GraalVM Enterprise Edition **Restriction (MySQL Enterprise Edition):** MySQL Enterprise Edition is included for use with Oracle Communications Policy Management Configuration Management Platform (Base Fee). Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Policy Management Configuration Management Platform (Base Fee). **Restriction (GraalVM Enterprise Edition)**: A license to Oracle Communication Policy Management includes a restricted use license for Oracle GraalVM, as incorporated in Oracle Communication Policy Management, and solely for running Oracle Communication Policy Management. Support of Oracle GraalVM is limited to support of Oracle Communication Policy Management components.
	Oracle Communications Policy Management Multimedia Policy Engine—per Server Metric	This product provides the following base Multimedia Policy Engine functionality: Policy run-time, 3GPP support (Gx, Sd, Rx, Sy), State Management, Pooled Quotas, Dynamic Quotas, Time of Day, Session Correlation, Geo-Redundancy, and Advanced Notifications. **Prerequisites:** Oracle Communications, Policy management, Configuration Management Platform (base).
	Oracle Communications Policy Management—per 1K Network Access Sessions Metric	This product determines the number of concurrent network access sessions allowed within a Policy Management network consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). 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:** Requires Oracle Communications, Policy Management, and Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management—per 500 Transactions per Second Metric	This product determines the number of transactions per second (TPS) allowed within a Policy Management network consisting of one or more multimedia policy engines (MPEs) managed by a single active configuration management platform (CMP). Policy Management, Transactions per Second number represents the peak TPS measured based on highest busy hour load within a given Policy Management network. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).

Product	Sub product	Licensing Information
	Oracle Communications Policy Management Policy Event Records Distribution—per Server Metric	This product provides access to Policy Management, Analytics functionality. It includes the ability to generate Policy Event Record (PER) and Policy Reference Data (PRD) information based on observed criteria and behavior with the Multimedia Policy Engine (MPE) **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management Policy Front End—per Server Metric	This product provides access to Policy Front End application functionality which includes managing diameter connections and load balancing traffic between the Policy Charging Enforcement Point (PCEF) and Multimedia Policy Engine (MPE) instances. **Prerequisites:** None
	Oracle Communications Policy Management Policy Front End—per 500 Transactions per Second Metric	This product determines the number of transactions per second (TPS) allowed within a Policy Management, Policy Front End application. Policy Management, Policy Front End, Transactions per Second number represents the peak TPS measured based on highest busy hour load. **Prerequisites:** Requires Oracle Communications, Policy Management, Policy Front End (base).
	Oracle Communications Policy Management—per 1K Concurrent Subscribers Metric	This product determines the number of unique concurrent subscribers with access to a specified application or service at any one time, within a Policy Management network consisting of one or more multimedia policy engines managed by a single active configuration management platform. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, OTT Services Basic—per Server Metric	This product provides access to Sponsored Data Connectivity feature set that provides usage tracking and enables implementation of value-added services such as zero-rating and data rewards for subscriber sessions using sponsored data from 3rd Party / OTT content providers. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, LTE Enhancement—per Server Metric	This product provides access to enhanced LTE functionality that supports VoLTE feature set including Required-Access-Info AVP on Rx and Gx interface, Charging-Correlation-Indicator AVP on Gx interface and PS to CS handover. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, Roaming Enhancement—per Server Metric	This product provides support for inbound and outbound roaming use cases, including local breakout using the 3GPP S9 interface. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).

Product	Sub product	Licensing Information
	Oracle Communications Policy Management, Web Notification—per Server Metric	This product provides generic and flexible framework to post HTTP based events to web services via Policy Actions. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, 4G Service Enhancement—per Server Metric	This product provides Diameter overload control enhancements, Service gateway restoration, and enhancements to handle EPC race conditions. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, Second Level Authentication— Server Perpetual	This product enables support for second level authentication of user traffic trying to connect to a specific network domain such as for example, Enterprise Network. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, Multi-Level OAM— Server Perpetual	This product enables a three-tiered hierarchical implementation of Policy Management OAM function. It provides the ability to provision and configure multiple CMPs at the site level from a top level network CMP **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, Session Recovery and Timer Enhancement— Server Perpetual	This product enables restoration of state information of LTE sessions when they go out of sync. This helps to preserve the subscriber quality of experience by improving call success rate and providing VoLTE session reliability. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, Cross-APN Session Correlation—Server Perpetual	This product provides the ability to control the policies for 4G/LTE subscriber sessions connected to different Packet Data Networks (PDN) based on shared session information. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, CALEA Support— Server Perpetual	This product provides the ability to track and report connection status and related metrics for CALEA support in CMP dashboard. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).

Product	Sub product	Licensing Information
	Oracle Communications Policy Management, eMPS Enhancement—Server Perpetual	This product provides access to enhanced Multimedia Priority Service capability which includes detection and management of policies for high priority service request over 3GPP Rx reference point. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, PCRF Services Extension I—Server Perpetual	This product provides specialized processing of policies including setting configured Gx session values using policy actions, Gx pending transaction race condition enhancement, QCI for non-critical Push to Talk and User Plane. **Prerequisites:** Requires Oracle Communications, Policy Management, Multimedia Policy Engine (base) and Configuration Management Platform (base).
	Oracle Communications Policy Management, PCRF Services Extension II—Server Perpetual	This product provides specialized processing of policies including NB-IoT Cat M2 device support, Conditional-Policy-Info AVP support of ARP and QCI information, revalidation time randomization, and introduction of deferred-activation-time and deferred-deactivation-time indications into the IP CAN session level. **Prerequisites:** This product requires Oracle Communications Policy Management, Multimedia Policy Engine (MPE) **Restrictions:** This product is for legacy customer applications only.
	Oracle Communications Policy Management, Session Binding API – Server Perpetual	This product provides an external API that can be leveraged by the customer's OSS to determine the subscriber identity associated with a given session. **Prerequisites:** Requires Oracle Communications Policy Management, Configuration Management Platform (base).
	Oracle Communications Policy Management, PCRF Services Extension III—Server Perpetual	This product allows the customer to support 5G non-standalone deployment using 4G PCRF to interface to the 5G Radio Access Network. **Prerequisites:** This product requires Oracle Communications Policy Management, Multimedia Policy Engine (MPE)
	Oracle Communications Policy Management, PCRF Services Extension IV—Server Perpetual	This product allows the customer to support S8 Home Routed Roaming for VoLTE using 4G PCRF. **Prerequisites:** This product requires Oracle Communications Policy Management, Multimedia Policy Engine (MPE)

Network Function Edition Licensing Information

Description of Product Editions and Permitted Features for the Policy Management Network Function Edition. The Network Function Edition products cannot be mixed in the same network as any other Policy Management products.

Product	Sub product	Licensing Information
Oracle Communications Policy Management	Oracle Communications Policy Management Network Function Edition—1K Network Access Sessions Perpetual	This product includes 3GPP PCRF functionality including Gx, Sd, Sy, Sh, Rx, S9 reference points 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 consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). 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 **Included Products:** MySQL Enterprise Edition GraalVM Enterprise Edition **Restriction (MySQL Enterprise Edition):** MySQL Enterprise Edition is included for use with Oracle Communications Policy Management Network Function Edition. Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Policy Management Network Function Edition. **Restriction (GraalVM Enterprise Edition)**: A license to Oracle Communication Policy Management includes a restricted use license for Oracle GraalVM, as incorporated in Oracle Communication Policy Management, and solely for running Oracle Communication Policy Management. Support of Oracle GraalVM is limited to support of Oracle Communication Policy Management components.
	Oracle Communications Policy Management Network Function Edition, 5G Non Standard Application— Network Perpetual	This product allows the customer to support 5G Non-standalone deployment using 4G PCRF to interface to the 5G Radio Access Network **Pre-requisites:** Oracle Communications Policy Management Network Function Edition

Licensing Information—Legacy Products

Product	Sub product	Licensing Information
Oracle Communications Policy Management	Multimedia Policy Engine (base)—per Cluster Metric	This product provides access to enhanced Multimedia Priority Service capability which includes detection and management of policies for high priority service request over 3GPP Rx reference point. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy management Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Camiant Management Platform (base)—per Cluster Metric	This product provides access to base Policy Configuration Management Platform functionality including Policy Wizard, Provisioning, SNMP support, KPI Dashboard, Session Viewer, OSSI XML Interface. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers **Prerequisites:** None. **Restrictions:** This product is for legacy customer applications only.
	Multiprotocol Routing Agent (base)—per Cluster Metric	This product (available on a per server basis) provides access to Policy Front End application functionality which includes managing diameter connections and load balancing traffic between the Policy Charging Enforcement Point (PCEF) and Multimedia Policy Engine (MPE) instances. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** None. **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	Mobile Base 1K Sessions	This product determines the number of concurrent IP-CAN sessions allowed within a Policy Management network consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). A Mobile Base session is defined as the association between a user endpoint/device and an IP network. It includes support for unique Gx session as defined in 3GPP standards. Mobile Base Sessions represent the peak concurrent sessions measured based on highest busy hour session load within a given Policy Management network. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform CMP) **Restrictions:** This product is for legacy customer applications only.
	Quota 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated Quota Management allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) • Oracle Communications Policy Management Mobile Base 1K session license **Restrictions:** This product is for legacy customer applications only.
	DPI 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated DPI co-relation allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) • Oracle Communications Policy Management Mobile Base 1K session license **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	Time of Day 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated Time of Day policies allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) • Oracle Communications Policy Management Mobile Base 1K session license **Restrictions:** This product is for legacy customer applications only.
	Gx Roaming 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated Gx Roaming policies allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) • Oracle Communications Policy Management Mobile Base 1K session license **Restrictions:** This product is for legacy customer applications only.
	LTE 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated 4G/LTE allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) • Oracle Communications Policy Management Mobile Base 1K session license **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	IMS 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated IMS Rx reference, allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) • Oracle Communications Policy Management Mobile Base 1K session license **Restrictions:** This product is for legacy customer applications only.
	MRA 1K Sessions	This product determines the number of concurrent IP-CAN sessions supported by Multiprotocol Routing Agent within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires: • Oracle Communications Policy Management Multiprotocol Routing Agent (MRA) • Oracle Communications Policy Management Configuration Management Platform (CMP) **Restrictions:** This product is for legacy customer applications only.
	Policy Server Geo-Redundancy—per Cluster Metric	This product provides access to Multimedia Policy Engine Geo-Redundancy functionality that enables session state failover between primary and secondary sites. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (base fee) • Oracle Communications Policy Management Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	Sd interface to Traffic Detection Function—per Cluster Metric	This product provides access to 3GPP Sd interface functionality between PCRF and Traffic Detection function for policy treatment based on subscriber and application specific criteria. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.
	Sy interface to Online Charging System (OCS)—per Cluster Metric	This product provides access to 3GPP Sy interface functionality between PCRF and Online Charging System (OCS). This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.
	Location Based Services—per Cluster Metric	This product provides access to Location Based Services functionality that allows policy treatment based on subscriber profile and current location information. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	Policy Events Feed for Analytics—per Cluster Metric	This product provides access to Policy Management, Analytics functionality. It includes the ability to generate Policy Event Record (PER) and Policy Reference Data (PRD) information based on observed criteria and behavior with the MPE. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.
	Pass Management and Top Up—per Cluster Metric	This product provides access to Pass Management and Top Up functionality. It includes the ability to overwrite the basic quota allowance through Passes, Top-ups and Roll-Overs. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.
	Enhanced Quota Management—per Cluster Metric	This product provides access to Enhanced Quota Management functionality which includes dynamic grant of pooled quota. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	Enhanced Subscriber Notification Management—per Cluster Metric	This product provides access to Enhanced Subscriber Notification including, email, secondary SMS address support, ability to acknowledge receipt of an SMS to handset and log an event. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.
	Diameter over SCTP—per Cluster Metric	This product provides access to Diameter over Stream Control Transmission Protocol (SCTP) functionality with Multi-homing support for MPE and MRA systems. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) (base fee) • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) • Oracle Communications Policy Management Multiprotocol Routing Agent (MRA) (base fee)—optional. **Restrictions:** This product is for legacy customer applications only.
	Table Driven Policies—per Cluster Metric	This product provides access to Table driven policy configuration for efficient and faster implementation of Policy rules. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers. **Prerequisites:** This product requires: • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	AVP Wizard—per Cluster Metric	This product provides access to AVP Wizard functionality for configuring and provisioning 3rd party custom AVPs in Policy rules. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers. **Prerequisites:** This product requires: • Oracle Communications Policy Management Configuration Management Platform (CMP) (base fee) **Restrictions:** This product is for legacy customer applications only.
	Policy Feature Bundle 500 Transactions per Second	This product determines the number of transactions per second (TPS) allowed within a Policy Management network consisting of one or more multimedia policy engines (MPEs) managed by a single active configuration management platform (CMP). Policy Management, Transactions per Second number represents the peak TPS measured based on highest busy hour load within a given Policy Management network. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) **Restrictions:** This product is for legacy customer applications only.
	M2M License per 1K block of devices	This product determines the number of M2M device subscriptions allowed within a Policy Management network consisting of one or more multimedia policy engines managed by a single active configuration management platform. The license provides access to Mobile Base, Quota, DPI, Time of Day, Gx, Roaming functionality. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multimedia Policy Engine (MPE) • Oracle Communications Policy Management Configuration Management Platform (CMP) **Restrictions:** This product is for legacy customer applications only.

Product	Sub product	Licensing Information
	Stateful Dynamic MRA—per Cluster Metric	This product provides access to stateful dynamic MRA functionality which includes preserving session binding information and routing any subsequent sessions for the same subscriber to the same MPE. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires: • Oracle Communications Policy Management Multiprotocol Routing Agent (MRA) • Oracle Communications Policy Management Configuration Management Platform (CMP) **Restrictions:** This product is for legacy customer applications only.

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Commercial software products or components distributed in Oracle Communications Policy Management are identified in the following table along with the applicable licensing information:

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		swagger-ui 4.13.2

		swagger-jaxrs 1.6.11
		swagger-jersey2-jaxrs 1.6.11
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		slf4j-api 1.7.36
		slf4j-api 1.7.32
		checker-qual 3.33.0
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		Dependency:
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		Dependencies:
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		Dependencies:
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Version 2.1, February 1999

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GraalVM Enterprise Edition 21

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