Oracle® Communications Diameter Signaling Router

Licensing Information User Manual

Release 9.1.0.0.0
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Oracle Communications Diameter Signaling Router Licensing Information User Manual, Release 9.1.0.0.0

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1. Select **2** for New Service Request.
2. Select **3** for Hardware, Networking and Solaris Operating System Support.
3. Select one of the following options:
    - For Technical issues such as creating a new Service Request (SR), select **1**.
    - For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

What's New in This Guide

This section introduces the documentation updates for release 9.1.0.0.0.

Release 9.1.0.0.0 - G18230-01, December 2024

- Updated the prerequisite for the sub product "oracle communications diameter signaling router network function edition - per network wide messages per second perpetual" in the Network Function Edition Licensing Information section.
- Updated the version for gSoap in the **Commercial Software** section.
- The following changes are made in the DSR Licensing Information section:
  - Updated the version for ACE.
  - Updated the version for CodeMirror.
  - Added PowerDNS provider and its licensing information.
  - Added edenhill provider and its licensing information.
  - Added oracle provider and its licencing information.
  - Updated the version for php and its licensing information.
  - Updated the version for php-saml and the copyright information in the licensing information.
  - Updated the version for ojet and its licensing information.
- The following changes are made in the ATS Licensing Information section:
  - Updated the version for colorlog.
  - Removed ifaddr provider.
  - Updated the version for jenkins and its licensing information.
  - Updated the version for jenkins active choices plug-in.
  - Updated the version for junit-plugin and its licensing information.
  - Updated the version for Login Theme Plugin for Jenkins.
  - Updated the version for LXML.
  - Updated the version for Paramiko and its licensing information.
  - Updated the version for Pipeline Plugin and its licensing information.
  - Updated the version for python-dotenv.
  - Updated the version for python-jsonschema-objects
  - Updated the version for pyyaml.
  - Updated the version for requests and its licensing information.
  - Updated the version for selenium.
  - Updated the version for simple theme plugin for jenkins.

  .
- The following changes are made in the VNFM Licensing information section:
  - Updated the version for cxf-rt-frontend-jaxrs and its licencing information.

  - Updated the version for cxf-rt-rs-service-description-swagger and its licensing information.
  - Updated the version for jackson-databind and its licensing information.
  - Updated the version for jackson-dataformat-yaml.
  - Updated the version for jackson-jaxrs-json-provider and its licensing information.
  - Updated the version for jjwt-api and its licensing information.
  - Added the jsonwebtoken.io provider, component jjwt-impl, and its licensing information.
  - Added jsonwebtoken.io, component jjwt-jackson and its licensing information.
  - Updated the version for log4j-slf4j-impl and its licensing information.
  - Updated the version for log4j-web and its licensing information.
  - Updated the version for node exporter and its licensing information.
  - Updated the version for openstack4j-httpclient and its licensing information.
  - Updated the version for prometheus and its licensing information.
  - Updated the prometheus alertManager
  - Updated the version for SNMP4J.
  - Updated the version for Tomcat.
- Added the following in the IDIH Licensing Information section:
  - Added Google provider and its licencing information.
  - Added FasterXML, LLC and its licensing information.
  - Added Eclipse Foundation, component Jakarta XML Binding API (JAXB) 4.0.2 and its licensing information.
  - Added Eclipse Foundation, component jaxws-rt 4.0.3 and its licensing information.
  - Added the prometheus authors, component JMX Prometheus Javaagent 0.20.0 and its licensing information.
  - Added the apache software foundation, component kafka and its licensing information.
  - Added the apache software foundation, component kafka-streams and its licensing information.
  - Added the liquibase Inc and its licensing information.
  - Added OpenJS Foundation and its licensing information.
  - Added project lombok and its licensing information.
  - Added VMware and its licensing information.
  - Added the prometheus authors, component mysqld_exporter and its licensing information.
  - Added the prometheus authors, component prometheus and its licensing information.
  - Added the prometheus authors, component prometheus AlertManager and its licensing information.
  - Added Maxime Wojtczak and its licensing information.
  - Added the apache software foundation and its licensing information.
- Added appendix E GNU LESSER GENERAL PUBLIC LICENSE Version 3, 29 June 2007.

- Updated prerequisites section for "Oracle Communications Integrated Diameter Intelligence Hub – per Server" in the Table 2-2.
- Updated prerequisites section for "Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition – per Server Perpetual" in the Table 3-1.

1 Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website or from media Oracle may provide.

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2
Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

The following table provides licensing information about Diameter Signaling Router (DSR) and Integrated Diameter Intelligence Hub (IDIH) subproducts.

Table 2-1 Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router (base fee) – per Serve	**Description**: This product provides the following base Diameter Signaling Router functionality: • **OAM** – Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. • **Core Routing** – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. • **Congestion Management** – Ingress and egress, local and remote Diameter congestion control. • **Connection Management** – TCP, SCTP uni- and multihoming, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange. • **Diameter Mediation** – GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. • **Range Based Address Resolution** – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. • **Message Copy** – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. • **IP Front End** – TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual addresses. • **Geo-redundant** – The Diameter Signaling Router can be deployed with or without geo-redundancy. • **High Availability** – All message processing critical components are engineered with high levels of redundancy to ensure high availability. **Included products**: MySQL Enterprise Edition **Restriction**: MySQL Enterprise Edition is included for use with Oracle Communications Diameter Signaling Router (Base Fee). Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Diameter Signaling Router (Base Fee).

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router (capacity) – per 100 Network-wide Messages per Second	**Description**: Determines the maximum number of networkwide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: • Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. • Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to message copy • Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. • Orderable in 100 MPS increments. **Prerequisites**:A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router (capacity) or a license to one of the following legacy products: • DSR Initial Content per server • DSR RMS Initial Content per server • DSR 5 Content Bundle per server • DSR 5 Initial Content per server • DSR Diameter MPS per network • DSR Core Routing per server • DSR Core Routing per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router (capacity).
Oracle Communications Diameter Signaling Router Roaming Proxy – per Server	**Description**: This sub-product adds the roaming proxy features listed below to the Oracle Communications Diameter Signaling Router. • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding **Prerequisites**: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roaming Proxy or a license to one of the following legacy products: • DSR Initial Content per server • DSR RMS Initial Content per server • DSR Core Routing per server • DSR Core Routing per blade • DSR Policy Proxy per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roaming Proxy.

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router Full Address Resolution – per Server	**Description**: This sub-product adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-ID, Command Code, Routing Entity type, and Individual Routing Entity. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: • **Subscriber Database Server** – Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits. • **Database Processor** – Provides real-time access to the subscriber database at the signaling node. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution or a license to one of the following legacy products: • DSR Initial Content per server • DSR Core Routing per server • DSR Core Routing per blade • DSR Policy Proxy per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address
Oracle Communications Diameter Signaling Router Full Address Resolution – per 25k Subscribers	**Description**: Determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a network-wide basis. Each entry (entity) in the provisioned subscriber (SDS) database server (SDS) counts as one subscriber. Orderable in 25k subscriber increments **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Full Address Resolution per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution per 25k subscribers or a license to one of the following legacy products: • DSR Address Resolution Proxy per server • DSR Full Address Resolution I per server • DSR 5 Content Bundle per server • DSR 5 Initial Content per server • DSR Subscribers per network is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution per 25k subscribers.
Oracle Communications Diameter Signaling Router Policy Proxy – per Server	Description: This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router to enable the Policy DRA function. Policy DRA enables dynamic routing of subscriber sessions to PCRFs. This sub- product: • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy or a license to one of the following legacy products: • DSR Initial Content per server • DSR Core Routing per server • DSR Core Routing per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router Policy Proxy – per 5K Network-wide Concurrent Sessions	**Description**: Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router Policy Proxy. Licensing for concurrent sessions is provided on a network-wide basis. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in 5k session increments. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Policy Proxy per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy per 5k Network-wide Concurrent Sessions or a license to one of the following legacy products: • DSR Policy Proxy 1 per server • DSR 5 Content Bundle per server • DSR 5 Initial Content per server • DSR Policy Concurrent Sessions per network s a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy per 5k Network-wide Concurrent Sessions.
Oracle Communications Diameter Signaling Router Online Charging Proxy – per 5K Network-wide Concurrent Sessions	**Description**: Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router Online Charging Proxy. Licensing for concurrent sessions is provided on a network-wide basis. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in 5k session increments **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Online Charging Proxy per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router, Online Charging per 5k Networkwide Concurrent Sessions or a license to one of the following legacy products: • DSR Charging Proxy OCS Per Server • DSR Charging Concurrent Sessions per network is a prerequisite to license and use Oracle Communications Diameter Signaling Router, Online Network-wide Concurrent Sessions.
Oracle Communications Diameter Signaling Router, Policy Proxy II – per Server	**Description**: This sub-product adds policy proxy features to the Oracle Communications Diameter Signaling Router Policy Proxy. This sub-product adds: • Support for multiple PCRF pools including the ability to select the pool based on the APN+IMSI • Support for Gx' and Gx-Lite messages • Gateway Location Application (GLA) interface support to access the binding database • Policy Proxy Selection & routing to a PCRF pool based on APN **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Policy Proxy is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy II or a license to one of the following legacy products: • DSR Policy Proxy 1 per server • DSR 5 Content Bundle per server • DSR 5 Initial Content per server • DSR Core Routing per blade • DSR Policy Proxy per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy II

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router Translation Agent Base – per Server	**Description**: This sub-product adds MAP Diameter Interworking features to the Oracle Communications Diameter Signaling Router. For LTE-3G roaming, the DSR plays the role of the Interworking Function (IWF) to provide protocol mediation between Gr/Gr+ (3GPP MAP) and S6d (Diameter). The IWF also supports 3G-3G roaming over the S6d interface (SGSN Rel8). This capability also supports access by the MME or Rel8 SGSN over the S13 Diameter interface to an SS7 EIR DB, or vice-versa. **Prerequisite**: A license to Oracle Communications Diameter Signaling Router is a prerequisite to license and use Oracle Communications Diameter Signaling Router Translation Agent Base or a license to one of the following legacy products: • DSR Initial Content per server • DSR RMS Initial Content per server • DSR Core Routing per server • DSR Core Routing per blade • DSR Policy Proxy per blade • DSR 5 Content Bundle per server • DSR 5 Initial Content per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Translation

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Core Routing I – per Server	**Description**: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router The following features are added with this sub-product: Active/Standby Peer Node Support Mediation Enhancements: • Support for logical OR'ing and a mechanism to group conditions • Support for "optional" actions • Support for a combined 'set/add AVP' action • Support for grouped AVPs to a depth of 5 • Support for checking of ranges on numbers • Import/export of templates • Support for setting Message Priority and Route List in mediation. • Support for Discard message action • Support for Bit Set/Reset in conditions and actions • Ability to check for peers/connections in conditions • Special function to set Destination Realm from IMSI. • Support for setting "OctetString" type from the GUI. DSR maximum message size of 60,000 bytes PDU Pool Flexible Message Sizing DSR NOAM/SDS 32 Node Support **Prerequisites**: A license to Oracle Communications Diameter Signaling Router is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing I or a license to one of the following legacy products: • DSR Initial Content per server • DSR RMS Initial Content per server • DSR Core Routing per server • DSR Core Routing per blade • DSR Policy Proxy per blade • DSR 5 Content Bundle per server • DSR 5 Initial Content per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Core Routing II – Per Server	Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product: IPFE Enhancements: • Peer Node Group aware least load distribution algorithm • IPFE initiator support: DSR 'initiator only' connections Mediation Enhancements: • Mediation support for Re-routed requests • Support for “optional” actions • Mediation support for accessing components of the Diameter ingress request at the Answer Trigger Points • Ability to import/export mediation rules • Additional DCL trigger points • Additional DRL/DAL triggers • Support for Scripting in Mediation • Mediation: per rule pegging • Making AVP dictionary editable • Comcol logging for CAPM • Debug shell support for CAPM • Support for grouped AVPs that are 6 levels deep • Support for setting “OctetString” type from the GUI Pending Answer timer increase to 16 (from 8) Extended Command Codes RBAR -> PDRA Application Chaining Ingress Message Screening **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Core Routing I is a prerequisite to license and use Oracle Communications Diameter Signaling Router
Oracle Communications Diameter Signaling Core Routing III – Per Server	The following features are added with this sub-product: IPFE Enhancements: • IPFE Initiator + Responder Support Mediation Enhancements: • Support for grouped AVPs that are 8 levels deep • Support for “Set Alarm/Event” as an action • Support for “Re-direct” as an action • Support for “Parse Decorated NAI” as an action • Support for new Mediation conditions to identify Requests Redirected by DSR Routing Attributes by (Extended) Command Code Coordinated Egress Throttling across multiple DSRs Support for Redirect Client Realm-Based Redirect Notification Support Session SBR Database Consolidation and Remating **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Core Routing II is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing III.

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Core Routing IV – Per Server	Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product: Mediation Enhancements: • Routing Loop Alarm • Tekelec specific AVP removal • DCL peg and event normalization Dynamic Peer Discovery Increased Diameter Connection Limits (in a route group) DOIC Overload Control: DSR as a Reacting Node Implicit Realm Routing DSR Application ID aware routing Shared Traffic Throttle Groups (TTGs) for DOIC Support for FABR & OC-DRA interworking FABR – PDRA Application Chaining FABR – RBAR Application Chaining **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Core Routing III is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing IV.

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Core Routing V – Per Server	Description: This sub-product adds Active/Standby Peer Node Support enhancement features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product: New Generation Network Priority Service (“NGN-PS”) allows DSR to assign all NGN-PS messages higher priority over non NGN-PS messages (request and answers). Control for NGN-PS feature on a per diameter interface basis and for any combination of the following Long Term Evolution (LTE) and IP-Multimedia Subsystem (IMS) diameter interfaces: • **Gx interface**: The Gx is used between the Policy Control and Charging Rules Function (PCRF) and the Policy and Charging Enforcement Function (PCEF) in the 3GPP interface specifications TS29.212. The Gx is used for provisioning and removal of Policy and Charging Control (PCC) rules from the PCRF to the PCEF and the transmission of traffic plane events from the PCEF to the PCRF. • **Rx interface**: The Rx interface is used to exchange application level session information between the Policy and Charging Rules Function (PCRF) and the Application Function (AF). • **Cx/Dx**: The Cx interface between the Call Session Control Function (CSCF) and the Home Subscriber Server (HSS). The Dx interface between the CSCF and the Server Locator Function (SLF). • **Dh/Sh**: Dh and Sh Interfaces are used between the Application Server (AS) and the HSS. The procedure is invoked by the AS and is used to read transparent and/or non-transparent data for a specified user from the HSS. Support NGN-PS where priority service messages are assigned the highest priority of Priority four (P4). If required DSR throttles normal traffic to an engineered capacity such that internal resources, including resources related to message queuing, resource pools, and message control functions are always available for a small amount of additional NGN-PS traffic. DSR per-connection ingress Multimedia Priority Service (“MPS”) control algorithms shall discard the messages based on message priority in Priority zero (P0), Priority one (P1), Priority two (P2) and Priority three (P3) order respectively when the ingress message rate exceeds the configured maximum capacity of the given Diameter Peer Connection. Prerequisites: A license to Oracle Communications Diameter Signaling Router Core Routing IV is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing V.

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Core Routing VI – Per Server	Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product: Diameter Custom Application Framework Enables Operators to use in-house R&D resources or 3rd party application development organizations to rapidly develop and deploy new Diameter applications on DSR without requiring a new DSR software release. Diameter Custom “starter” Applications • Roaming Steering The Roaming Steering platforms allow the home network to control successful registration rate of their outbound roamers. Therefore, the home network defines roaming steering policies for each group of roaming partners that are part of the same country. • Online Charging Zero Balance Offload The primary purpose of the Online Charging Server (OCS) Zero Balance Offload feature defined here includes the following capabilities: – Detecting when a given subscriber, identified by MSISDN, has zero balance in their account. – Detecting when the OCS rejects the subscriber’s session setup attempt N times during a given interval due to zero balance. – Responding to the PCEF to deny service to the subscriber on behalf of the OCS during a second given interval. Prerequisites: A license to Oracle Communications Diameter Signaling Router Core Routing V is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing VI. Additionally for CAF applications following are prerequisites. • Oracle Communications Diameter Signaling Router, Policy Proxy – 5K Network-wide Concurrent Sessions Or Oracle Communications Diameter Signaling Router, On-line Charging Proxy – 5K Network-wide Concurrent Sessions

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Core Routing VII – Per Server	The following features are added with this sub-product: IETF RFC 7944 Diameter Routing Message Priority Overview of Diameter Routing Message Priority (DRMP) Mechanism to allow Diameter endpoints to indicate the relative priority of Diameter transactions. Message priority is be used in routing, resource allocation and overload abatement decision. Use cases: • First Responder Related Signaling • Emergency Call Related Signaling • Differentiated Services • Application Specific Priorities Ability to assign message priorities based on DRMP AVP received in diameter messages as well as static message priorities configured using Message Priority Configuration Set (MPCS). Message priorities are used for message throttling decisions during congestion conditions. Enable and disable DRMP AVP based message priority assignment for configurable diameter app-ID. Ability to assign priorities to answer messages equal to that of request messages. Support Answer message back from different connections (21072456) Allows DSR to process the Ingress Answer Diameter message received from connection of the upstream Diameter Peer, which is different from the connection, which was used to send the egress Diameter request for a given Diameter Transaction. Route Group Measurements (19091550) New measurements to monitor the amount of traffic being routed through specific route group. Provides visibility of traffic distribution across different route groups Configuration to enable and disable route group measurements for individual route groups through SOAM GUI Support up to maximum of 250 Route Groups per DSR network element Two new measurement groups are added to support route group measurements: • Route Group Performance • Route Group Exception **Prerequisites**: A license to Oracle Communications Diameter and use Oracle Communications Diameter Signaling Router Core Routing VII.
Oracle Communications Diameter Signaling, Roaming Proxy II – Per Server	**Description**: This sub-product adds the roaming proxy features listed below to the Oracle Communications Diameter Signaling Router. S9 PCRF Topology Hiding S9 AF/pCSCF Topology Hiding S6a/S6d HSS Topology Hiding with multiple pseudo hosts names **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Roaming Proxy is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roaming Proxy II or a license to the following legacy product: DSR_Roaming Proxy Per Server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roaming Proxy II.

Table 2-1 (Cont.) Diameter Signaling Router

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, Online Charging Proxy – Per Server	**Description**: This sub-product adds online charging server proxy features to the Oracle Communications Diameter Signaling Router. The online charging proxy supports a stateful Diameter proxy agent over the Gy interface between multiple charging clients such as LTE PGWs, 3G GGSNs, IMS AFs, and multiple online charging servers (OCS). Prerequisites: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Online Charging Server Proxy or a license to one of the following legacy products: • DSR Initial Content per server • DSR Core Routing per server • DSR Core Routing per blade • DSR Policy Proxy per blade • DSR 5 Content Bundle per server • DSR 5 Initial Content per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Online Charging Server Proxy.
Oracle Communications Diameter Signaling Router Translation Agent RADIUS– per Server	**Description**: This sub-product adds RADIUS-Diameter Interworking features to the Oracle Communications Diameter Signaling Router. The DSR plays the role of the Interworking Function (IWF) to provide protocol mediation between RADIUS and Diameter for trusted/untrusted Wi-Fi access to 3GPP core. This will also provide the ability for WLAN Access Gateway (WAG) to continue using the legacy RADIUS AAA server, HLR authentication for legacy RADIUS-MAP, and HSS authentication for RADIUS-Diameter S6d. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Translation Agent Base is a prerequisite to license and use Oracle Communications Diameter Signaling Router Translation Agent RADIUS.

Table 2-2 Integrated Diameter Intelligence Hub

Subproduct	Licensing Information
Oracle Communications Integrated Diameter Intelligence Hub – per Server	**Description**: This product provides a troubleshooting tool for the Oracle Communications Diameter Signaling Router. This product: Integrates the configuration of trace filters directly into DSR. Allows trace filters to be applied against all messages processed by DSR Allows Transaction Data Records containing both Diameter Requests and Answers to be captured for additional analysis and filtering. Provides Ladder Diagrams to facilitate troubleshooting concerning message sequence and peer connection issues. Supports detailed decoding of AVPs associated with the base Diameter protocol, as well as the following interfaces: Sh, Cx, Gy, Cc, S6a/d, Gx, Rx, SLg, SLh, SWm, SWx, STa, S6b, S9, Gxa **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Network Function Edition or Oracle Communications Common Signaling is a prerequisite to license and use Oracle Communications Integrated Diameter Intelligence Hub. **Included Products**: MySQL Enterprise Edition **Restriction**: MySQL Enterprise Edition is included for use as the Oracle Communications Integrated Diameter Intelligence Hub Management Repository. Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Integrated Diameter Intelligence Hub. Oracle Communications Network Integrated Diameter Intelligence Hub – per Server Description: This sub-prod
Oracle Communications Network Integrated Diameter Intelligence Hub – per Server	**Description**: This sub-product provides network-wide Integrated Diameter Intelligence Hub (iDIH), which enables correlation of trace data across a network of Integrated DIH (iDIH) instances. This sub-product: Provides the ability to correlate trace data across a network of Integrated DIH (iDiH) instances. Retrieves and correlates trace data that has been captured across multiple DSR (iDIH) sites, and render an integrated trace to the user allowing centralized troubleshooting of all DSR's in the network. Is required at each integrated DIH (iDIH) node/server in the network to enable a network view. **Prerequisites**: A license to Oracle Communications Integrated Diameter Intelligence Hub is a prerequisite to license and use Oracle Communications Network Integrated Diameter Intelligence Hub.

Table 2-2 (Cont.) Integrated Diameter Intelligence Hub

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, SS7 Signaling Transfer Point I – per server	Description: This sub-product adds the following features to the Oracle Communications Diameter Signaling Router: Signaling Transfer Point (STP) functionality Possibility to combine SS7 and Diameter signaling on the same node The SS7 Signaling Transfer Point on DSR includes SIGTRAN protocols (M3UA and M2PA), Global Title Translation (GTT) and GTT Advanced load-sharing features Signaling and MTP3 • Signaling Gateway mode for M3UA • M2PA can be either server or client at the SCTP connection level • Flow control at SCTP to manage incoming and outgoing traffic rates on each link • Link Transaction Per Second values defined at linkset level (all links within a linkset shall have the same capacity) MTP3 • Routing based on Destination Point Code of MTP3 layer • Supports equal load-sharing or dominant/backup up to 2 destinations SCCP • Supports UDT/XUDT and UDTS/XUDTS routing based on Called Party SCCP information • Enhanced Global Title Translation (GTT) designed for the Signaling Connection Control Part (SCCP) • Enables selection of various translation tables based on Global Title Information: – Numbering Plan (NP) – Nature of Address Indicator (NAI) – Translation Type (TT) • Variable GTT Length in the same GTT Set • Advanced Load-Sharing features – Intermediate GTT Load-Sharing – Flexible GTT Load-Sharing – Allows creation and customization of load-sharing groups in Mated Relay Node (MRN) or Mated APplications (MAP) tables. – Weighted GTT Load-Sharing: Allows creation and customization based on weighting for each destination, in-service threshold for group of load-sharing groups in MRN or MAP tables. – Transaction Based GTT Load-Sharing: Allows creation and customization based on transaction types and keys of load-sharing groups in MRN or MAP tables. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router, SS7 Signaling Transfer Point I.

Table 2-2 (Cont.) Integrated Diameter Intelligence Hub

Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router, SS7 Signaling Transfer Point II – per server	**Description**: This sub-product adds the following features to the Oracle Communications Diameter Signaling Router: Signaling Transfer Point (STP) functionality Possibility to combine SS7 and Diameter signaling on the same node The SS7 Signaling Transfer Point on DSR includes SIGTRAN protocols (M3UA and M2PA), Global Title Translation (GTT) and GTT Advanced load-sharing features Routing/Screening Features • Flexible Origin Linkset Based Routing (FLOBR) • TCAP Operation Based Routing (TOBR) • GTT Actions for screening **Prerequisites**: A license to Oracle Communications Diameter Signaling Router, SS7 Signaling Transfer Point I is a prerequisite to license and use Oracle Communications Diameter Signaling Router, SS7 Signaling Transfer Point II.
Oracle Communications Diameter Signaling Router, Diameter Security Application - Per	**Description**: This sub-product adds the following features to the Oracle Communications Diameter Signaling Router: Deploying Diameter Signaling Router (DSR) at interconnects as DEA (Diameter Edge Agent) allows security policies per GSMA FS.19 and IR.88 based integrated Diameter Firewall to be applied to all Diameter incoming traffic. **Prerequisites**: The following license are prerequisite to license and use Oracle Communications Diameter Signaling Router, Diameter Security Application • Oracle Communications Diameter Signaling Router, (base fee) – Per Server • Oracle Communications Diameter Signaling Router, (capacity) – Per 100 Network-wide Messages per Second • Oracle Communications Diameter Signaling Router, Core Routing VII- Per Server • Oracle Communications Diameter Signaling Router, Policy Proxy – 5K Network-wide Concurrent Sessions Or Oracle Communications Diameter Signaling Router, On-line Charging Proxy – 5K Network-wide Concurrent Sessions

3

Network Function Edition Licensing Information

Description of Product Editions and Permitted Features for the Diameter Signaling Router Network Function Edition. The Network Function Edition products cannot be mixed in the same network as any other Diameter Signaling Router products managed by a single Network OAM (NOAM).

Prerequisite Products

Entitled Products and Restricted Use Licenses

Table 3-1 Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router	Oracle Communications Diameter Signaling Router Network Function Edition – per Network-wide Messages per Second Perpetual	**Description**: This product provides the following base Diameter Signaling Router functionality on a network-wide basis. Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in 5000 MPS increments **OAM** – Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Congestion Management** – Ingress and egress, local and remote Diameter congestion control. **Connection Management** – TCP, SCTP uni- and multihoming, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange.

Table 3-1 (Cont.) Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Information
	Oracle Communications Diameter Signaling Router Network Function Edition – per Network-wide Messages per Second Perpetual – continued	**Diameter Mediation** – GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **Range Based Address Resolution** – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. **Message Copy** – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **IP Front End** –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant** – The Diameter Signaling Router can be deployed with or without geo-redundancy. **High Availability** – All message processing critical components are engineered with high levels of redundancy to ensure high availability. **Core Routing** – All core routing and process functionality which includes specific handling of real-time Diameter messages. Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router **Roaming Proxy** – All roaming proxy functionality for the Oracle Communication Diameter Signaling Router. **Translation Agent** – All Diameter Interworking functionality for the Oracle Communication Diameter Signaling Router **Included Products**: MySQL Enterprise Edition **Restriction**: MySQL Enterprise Edition is included for use with Oracle Communications Diameter Signaling Router Network Function Edition. Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Diameter Signaling Router Network Function Edition. The Network Function Edition products cannot be mixed in the same network as any other Diameter Signaling Router products.

Table 3-1 (Cont.) Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Information
	Oracle Communications Diameter Signaling Router Network Function Edition for Database Applications – per 25k Subscribers Perpetual	**Description**: This product provides subscriber application Diameter Signaling Router functionality, such as Full Address Based Resolution, on a network-wide basis. Determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a network-wide basis. Each entry (entity) in the provisioned subscriber database server (SDS) counts as one subscriber. Orderable in 25k subscriber increments. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Network Function Edition is a prerequisite to license and use Oracle Communications Diameter Signaling Router Network Function Edition for Database Applications.
	Oracle Communications Diameter Signaling Router Network Function Edition for Stateful Applications – per 5k Network-wide Concurrent Sessions Perpetual	**Description**: This product provides stateful session application Diameter Signaling Router functionality, such as Policy Proxy and On-line Charging Proxy, on a network-wide basis. Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router. Licensing for concurrent sessions is provided on a network-wide basis. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in 5k session increments. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Network Function Edition is a prerequisite to license and use Oracle Communications Diameter Signaling Router Network Function Edition for Stateful Applications.

Table 3-1 (Cont.) Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Information
	Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition – per Server Perpetual	**Description**: This product provides a troubleshooting tool for the Oracle Communications Diameter Signaling Router Network Function Edition. Functionality included: Integrated DIH and Network Integrated DIH **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Network Function Edition or Oracle Communications Common Signaling is a prerequisite to license and use Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition. **Included Products**: MySQL Enterprise Edition **Restriction**: MySQL Enterprise Edition is included for use as the Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition Management Repository. Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition. The Network Function Edition products cannot be mixed in the same network as any other Diameter Signaling Router products.

4

Common Signaling Licensing Information

Description of Product Editions and Permitted Features for the Diameter Signaling Router Common Signaling Licensing Model. The Common Signaling Licensing Model products cannot be mixed in the same network as any other Diameter Signaling Router products managed by a single Network OAM (NOAM).

Prerequisite Products

Entitled Products and Restricted Use Licenses

Table 4-1 Common Signaling Licensing Information

Product	Subproduct	Licensing Information
Oracle Communications Common Signaling	Oracle Communications Common Signaling –per Signaling Unit	**Description**: Signaling Unit is defined as follows. In the case of EAGLE,defined as a 4 nodal TPS which includes failover and engineered throughput. In the case of DSR,definedas 1 network-wideMPS. This product provides the following base Diameter Signaling Router functionality on anetwork-wide basis. Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: • Processing of an ingress Diameter message, RADIUS, SS7 message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. • Transmission of any Diameter message, RADIUS, SS7 message that are associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in 5000 MPS increments. **OAM** –Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Congestion Management**–Ingress and egress, local and remote Diameter congestion control. **Connection Management**–TCP, SCTP uni- and multi- homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange. **Diameter Mediation** –GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **RangeBasedAddress Resolution**–Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
		Message Copy–Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **IPFront End** – TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant**–The Diameter Signaling Router can be deployed with or without geo-redundancy. **High Availability**–All message processing critical components are engineered with high levels of redundancy to ensure high availability. **Core Routing** – All core routing and process functionality which includes specific handling of real-time Diameter messages Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router **RoamingProxy** – All roaming proxy functionality for the Oracle Communication Diameter Signaling Router. **Translation Agent**–All Diameter Interworking functionality for the Oracle Communication Diameter Signaling Router. This product also provides base and signaling unit throughput for the Oracle Communications EAGLE application. Refer to the EAGLE License Information Manual for licensing details when used to deliver SS7 routing. **IncludedProducts**: MySQL Enterprise Edition **Restriction**: MySQL Enterprise Edition is included for use with Oracle Communications Common Signaling. Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Common Signaling.

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling for Database Applications – per 25k Subscribers Perpetual	**Description**: This product provides subscriber application Diameter Signaling Router functionality, such as Full Address Based Resolution, on a network-wide basis. Determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a network-wide basis. Each entry (entity) in the provisioned subscriber database server (SDS) counts as one subscriber. Orderable in 25k subscriber increments. This product also provides database applications and capacity for the Oracle Communications EAGLE application. Refer to the EAGLE License Information Manual for licensing details when used to deliver SS7 database applications. **Prerequisites**: A license to Oracle Communications Common Signaling is a prerequisite to license and use Oracle Communications Common Signaling for Database Applications.
	Oracle Communications Common Signaling for Stateful Applications – per 5k Network-wide Concurrent Sessions Perpetual	**Description**: This product provides stateful session application Diameter Signaling Router functionality, such as Policy Proxy and On-line Charging Proxy, on a network-wide basis. Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router. Licensing for concurrent sessions is provided on a network-wide basis. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in 5k session increments. **Prerequisites**: A license to Oracle Communications Common Signaling is a prerequisite to license and use Oracle Communications Common Signaling for Stateful Applications.

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, SS7 Signaling Transfer Point – per node	**Description**: This sub-product adds the following features to the Oracle Communications Diameter Signaling Router: Signaling Transfer Point (STP) functionality Possibility to combine SS7 and Diameter signaling on the same node The SS7 Signaling Transfer Point on DSR includes SIGTRAN protocols (M3UA and M2PA), Global Title Translation (GTT), and GTT Advanced load-sharing features. Signaling and MTP3 • M3UA and M2PA – Signaling Gateway mode for M3UA – M2PA can be either server or client at the SCTP connection level – Flow control at SCTP to manage incoming and outgoing traffic rates on each link – Link Transaction Per Second values defined at linkset level (all links within a linkset is have the same capacity) * MTP3 * Routing based on Destination Point Code of MTP3 layer * Supports equal load-sharing or dominant/backup upto 2 destinations SCCP • Supports UDT/XUDT and UDTS/XUDTS routing based on Called Party SCCP information • Enhanced Global Title Translation (GTT) designed for the Signaling Connection Control Part (SCCP) • Enables selection of various translation tables based on Global Title Information: – Numbering Plan (NP) – Nature of Address Indicator (NAI) – Translation Type (TT) • Variable GTT Length in the same GTT Set • Advanced Load-Sharing features – Intermediate GTTLoad-Sharing – Flexible GTT Load-Sharing * Allows creation and customization of load- sharing groups in Mated Relay Node (MRN) or Mated APplications (MAP) tables. – Weighted GTT Load-Sharing * Allows creation and customization based on a weighting for each destination, In-service threshold for a group of load-sharing groups in MRN or MAP tables.

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
		– Transaction-Based GTT Load-Sharing * Allows creation and customization based on transaction types and keys of load-sharing groups in MRN or MAP tables. **Prerequisites**: A license to Oracle Communications Diameter Signaling Router Network Function Edition (base) or Oracle Communications Common Signaling (base) is a prerequisite to license and use Oracle Communications Diameter Signaling Router, SS7 Signaling Transfer Point.
	Oracle Communications Common Signaling, Security Application - per NODE	**Description**: This sub-product adds the following features to the Oracle Communications Diameter Signaling Router: Deploying Diameter Signaling Router (DSR) at interconnects as DEA (Diameter Edge Agent) allows security policies per GSMA FS.19 and IR.88 based integrated Diameter Firewall to be applied to all Diameter incoming traffic. In addition to this, all Common Security use-cases which cover GSMA's FS11 security policies around Stateless Firewall are also covered under this sub-product. **Prerequisites**: The following license is prerequisite tolicense and use Oracle Communications Common Signaling, Security Application Oracle Communications Common Signaling – per Signaling Unit Or Oracle Communications Diameter Signaling Router Network Function Edition – per Network-wide Messages Oracle Communications Common Signaling for Stateful Applications – per 5k Sessions Or Oracle Communications Diameter Signaling Router Network Function Edition for Stateful Applications – per 5k Network- wide Concurrent Sessions.

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Equipment Identity Register – per NODE	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router: Equipment Identity Register (EIR) reduces the number of GSM mobile handset thefts by providing a mechanism that will allow the network operators to prevent stolen or disallowed handsets from accessing the network. This control is done by using the International Mobile Equipment Identity (IMEI) provided during handset registration and comparing it against a set of lists provided by the network operator. This application may also provide an option to validate IMEI based on the IMSI (International Mobile Subscriber Identity). **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Equipment Identity Register – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Database Applications - per 25k Subscribers
	Oracle Communications Common Signaling, Nodal Configuration – Node Perpetual	**Description:** The sub-product adds the following features to Oracle Communications Diameter Signaling Router. Nodal Configuration provides enhanced configuration capacity on a nodal bases for following items. • 500K MPS forDiameter and 500K MPS for vSTP – **Note:** • For vSTP, Part Number **L106078 - Oracle Communications Common Signaling, SS7 Signaling Transfer Point – Node Perpetual** is a pre-requisite to avail this license. • For capacity beyond 500K MPS on vSTP, an additional nodal license is required. • Virtual Network Function Manager (VNF-M) • 32K connections per node (SOAM) • Application Routing Tables & Peer Routing Tables to 50K **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Nodal Configuration – Node Perpetual Oracle Communications Common Signaling – per Signaling Unit – per Message per Second

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Enhanced Routing - Node Perpetual	**Description:** The sub-product adds the following features to Oracle Communications Diameter Signaling Router: • **vAGG:** Mobile Private Network Virtual Aggregate DRA (vAggDRA) aggregates Diameter/RADIUS traffic from Enterprises towards the appropriate servers. This feature provides parity with F5 enabling additional replacement opportunities globally, including Verizon. This use-case also addresses DSR as Radius Proxy with additional routing features. • **Rx Gateway:** The MCPTT (Mission Critical Push to Talk) Rx gateway use case is intended to be enabled on Roaming DRA – which is a Virtual DSR (Diameter Signaling Router). The Rx gateway is a customization on the Roaming DRA (Diameter Routing Agent) Rx interface to support MCPTT (Mission Critical Push to Talk), used by Verizon. Oracle Roaming DRA (R-DRA) establishes a secure Diameter Rx connection with Oracle PCRF (Policy and Charging Rules Function) for roaming calls. **Prerequisites:** The following license is prerequisite to license and use Oracle Communications Common Signaling, Enhanced Routing - Node Perpetual Oracle Communications Common Signaling – per Signaling Unit – per Message per Second
	Oracle Communications Common Signaling, Service Proxy Function - per NODE	**Description:** The sub-product adds the following features to the Oracle Communications Diameter Signaling Router TheService Proxy Function (SPF)addresses introduction of 5G Service BasedArchitectureandthe usageof HTTP/2for signaling.Provides congestion control incases of floodingand at the same time protectservers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure. **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Service Proxy Function - per NODE Oracle Communications Common Signaling – per Signaling Unit – per Message per Second

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Network Repository Function - per NODE	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router TheNetwork Repository Function(NRF) supports management and discovery services and the management services allow for Network Function(NF)instances to be Introduced/Updated/ Removed inthe5Gcorewithoutmanual configuration.The more NRF developments will come as part of futurereleases. **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Network Repository Function - per NODE Oracle Communications Common Signaling – per Signaling Unit – per Message per Second
	Oracle Communications Common Signaling, Routing and Selection domain –per NODE	**Description:** The sub-product adds the following features to the Oracle Communications Diameter Signaling Router Routing and Selection domain combines both Service Proxy Function (SPF) and Network Repository Function (NRF) provides a real-time information about any Network Function (NF) and leads to better NF selection decision making by the NRF and SPF able to perform overload protection without configuration and dynamic re-routing where applicable. Refer to following Subproduct information for additional details. Oracle Communications Common Signaling, Service Proxy Function - per NODE Oracle Communications Common Signaling, Network Repository Function - per NODE **Prerequisites:**Thefollowing license is prerequisite to license and use Oracle Communications Common Signaling, Routing and Selection domain – per NODE Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling, Service Proxy Function - per NODE Oracle Communications Common Signaling, Network Repository Function - per NODE

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Binding Support Function–per Node	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router The Binding Support Function (BRF)providessession binding functionality,whichensuresrequestfor sessionreaches 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:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Binding Support Function -per NODE Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Stateful Applications – per 5k Network-wide Concurrent Sessions Perpetual.
	Oracle Communications Common Signaling, Network Exposure Function - Per Node	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router The Network Exposure Function (NEF) provides RESTful APIs thatallow access to theservices and capabilities provided by networkentitiesand securelyexposed by NEF. The NEF Northbound interface supportsthe 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 forTraffic Influence **Prerequisites:**Thefollowing license is prerequisite to license and use Oracle Communications Common Signaling, Network Exposure Function - Per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Stateful Applications – per 5k Network-wide Concurrent Sessions Perpetual

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Interworking and Mediation Function - Per Node	**Description**: The sub-product adds the following features to the Oracle Communications Diameter Signaling Router The InterworkingandMediation (IWF) provides Interworking and mediationfunctionbetween HTTPóHTTP and HTTP Diameter that allow access to the services and capabilities provided bynetwork entities.Prerequisites: The following license is prerequisite to license and use Oracle Communications Common Signaling, Interworking and Mediation Function - Per NodeCustomer 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 Proxy Function (SPF), Network Slice Selection Function (NSSF), Binding Support Function (BSF), Security Edge Protection Proxy (SEPP), and Network Expose Function (NEF). IWF is not applicable to Network Repository Function (NRF) provided by network entities. Prerequisites: The following license is prerequisite to license and use Oracle Communications Common Signaling, Interworking and Mediation Function - Per Node 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 Proxy Function (SPF), Network Slice Selection Function (NSSF), Binding Support Function (BSF), Security Edge Protection Proxy (SEPP), and Network Expose Function (NEF). IWF is not applicable to Network Repository Function (NRF).

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Network Slice Selection Function - Per Node	Oracle Communications Common Signaling, Network Slice Selection Function - Per Node **Description:**The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router The Network Slice SelectionFunction (NSSF)provides an importantcapability to bringnetworkresource utilization efficiency, deploymentflexibility andsupportfastgrowing over thetop(OTT) application andservices. **Prerequisites:**Thefollowing license is prerequisite to license and use Oracle Communications Common Signaling, Network Slice Selection Function - Per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second
	Oracle Communications Common Signaling, Security Edge Protection Proxy -Per Node	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router The Signaling Security Edge Protection Proxy (SEPP) Security Edge ProtectionProxy (SEPP)is a nontransparent proxy that supportsmessage filteringand policing oninter- PLMN control-plane interfaces andtopologyhiding for the PLMN network. A SEPPfunction should performthefirewall role for transactions betweendomains. Giventhat theSEPP is thepointwhere integrityprotection andencryption areapplied, the SEPPhas visibility intoeachaspectof a transaction. **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Security Edge Protection Proxy - Per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Mobile Number Portability - Per Node	Oracle Communications Common Signaling, Mobile Number Portability - Per Node **Description**: The sub-product adds the following features to the Oracle Communications Diameter Signaling Router. The Mobile Number Portability (MNP) Process is the facility that helps you switch from one mobile phone network service provider to another in any Licensed Service Area (LSA) while retaining your existing number. **Prerequisites**: The following license is prerequisite to license and use Oracle Communications Common Signaling, Mobile Number Portability – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Database Applications - per 25k Subscribers
	Oracle Communications Common Signaling, ENUM Interface for Number Portability – Node Perpetual	Oracle Communications Common Signaling, ENUM Interface for Number Portability – Node Perpetual **Description**: The sub-product adds the following features to the Oracle Communications Diameter Signaling Router: The ENUM Number Portability functionality is a standard adopted by the Internet Engineering Task Force (IETF) that uses the Domain Name System (DNS) to map telephone numbers to web addresses or uniform resource locators (URL). The goal of the ENUM standard is to provide a single number to replace the multiple numbers and addresses for an individual' home phone, business phone, fax, cell phone, and email through a telephone number. **Prerequisites**: The following license is prerequisite to license and use Oracle Communications Common Signaling, ENUM Interface for Number Portability – Node Perpetual Oracle Communications Common Signaling – per Signaling Unit – per Message per Second, Oracle Communications Common Signaling, Mobile Number Portability – per Node and Oracle Communications Common Signaling for Database Applications - per 25k Subscribers

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling HLR Router for vSTP - Per Node	Oracle Communications Common Signaling HLR (Home Location Register) Router for vSTP - Per Node **Description**: The sub-product adds the following features to the Oracle Communications Diameter Signaling Router: In order to move easily from one HLR to another, operators need an HLR router that optimizes the use of subscriber numbers and number ranges by providing a logical link between any MSISDN, IMSI and an HLR. HLR Router software support in vSTP allows an operator to flexibly assign individual subscribers to HLRs and route signaling messages accordingly, based on subscriber numbering. **Prerequisites**: The following license is prerequisite to license and use Oracle Communications Common Signaling, Home Location Register Router (HLRR) – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Database Applications - per 25k Subscribers
	Oracle Communications Common Signaling, Automated Test Tools and Scripts - Per Node	**Description:** The sub-product adds the following features to the Oracle Communications Diameter Signaling Router The Automated Test Tools,Scripts license provides tools and scripts for functional, and performance testing needs in the field. **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Automated Test Tools and Scripts – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second
	Oracle Communications Common Signaling, Streaming Measurements - Node Perpetual	**Description:** The sub-product provides enhanced view of Diameter Signaling Router metrics information, enabling streaming of measurements data via message queue. **Prerequisites:** The following license is a prerequisite to license and use Oracle Communications Common Signaling, Streaming Measurements - Node Perpetual. Oracle Communications Common Signaling - per Signaling Unit OR Oracle Communications Diameter Signaling Router Network Function Edition - per Network-wide Messages

Table 4-1 (Cont.) Common Signaling Licensing Information

Product	Subproduct	Licensing Information
	Oracle Communications Common Signaling, Enhanced Virtual Machine Profile - Node Perpetual	**Description:** The enhanced Virtual Machine (VM) profile sub-product provides configuration capacity of Diameter Agent Message Processors (DA-MP) VM. This increase of VM profile results in increased capacity of each DA-MP VM. This sub-product includes software to support the enhanced configuration capacity. **Prerequisites:** The following license is a prerequisite to license and use Oracle Communications Common Signaling, Enhanced Virtual Machine Profile - Node Perpetual. Oracle Communications Common Signaling – per Signaling Unit OR Oracle Communications Diameter Signaling Router Network Function Edition - per Network - wide Messages.
	Oracle Communications Common Signaling, Network Function Cloud Native Environment - Per Node	**Description:** The sub-product adds the following features to the Oracle Communications Diameter Signaling Router The Network Function CloudNative Environment provides tools and capabilities to run cloud native network functions in the network. **Prerequisites:**Anyone of the following license is prerequisite to license and use Oracle Communications Common Signaling, Network Function Cloud Native Environment – per Node Oracle Communications Common Signaling, Security Edge Protection Proxy - Per Node Oracle Communications Common Signaling, Network Slice Selection Function - Per Node Oracle Communications Common Signaling, Interworking and Mediation Function - Per Node Oracle Communications Common Signaling, Network Exposure Function - Per Node Oracle Communications Common Signaling, Binding Support Function - per NODE Oracle Communications Common Signaling, Network

Product	Subproduct	LicensingInformation

	Oracle Communications Common Signaling, Network Function Cloud Native Environment - Per Node	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router TheNetwork FunctionCloudNativeEnvironment provides tools and capabilitiesto runcloud nativenetworkfunctionsin the network. **Prerequisites:**Anyone of the following license is prerequisite to license and use Oracle Communications Common Signaling, Network Function Cloud Native Environment – per Node Oracle Communications Common Signaling, Security Edge Protection Proxy - Per Node Oracle Communications Common Signaling, Network Slice Selection Function - Per Node Oracle Communications Common Signaling, Interworking and Mediation Function - Per Node Oracle Communications Common Signaling, Network Exposure Function - Per Node Oracle Communications Common Signaling, Binding Support Function - per NODE Oracle Communications Common Signaling, Network

Product	Subproduct	LicensingInformation

		Repository Function - per Node Oracle Communications Common Signaling, Service Proxy Function - per Node Oracle Communications Common Signaling, Routing and Selection domain – per Node Oracle Communications Common Signaling, Unified Data Repository – per Node Oracle Communications Common Signaling, Unstructured Data Storage Function – per Node Oracle Communications Common Signaling, Diameter Routing Agent – per Node
	Oracle Communications Common Signaling, Unified Data Repository–per Node	**Description:**The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router The User DataRepository(UDR) is a functionalentitythat acts as a singlelogicalrepository of userdata and is unique fromApplicationFront End's perspective.Entitieswhich do not storeuserdataand thatneedto access userdatastored intheUDR arecollectively knownasapplicationfront ends.. **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Unified Data Repository – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Database Applications - per 25k Subscribers

	Oracle Communications Common Signaling, Unstructured Data Storage Function–per Node	**Description:** The sub-product adds the following features to the Oracle Communications Diameter Signaling Router TheUnstructuredData Storage Function (UDSF)function is a partof theUDMentity.Network Functions (NFs)can store/ retrieve “unstructured” datafrom an Unstructured Data Storage Function (UDSF).This datais basedon the state informationof different NFs,intermediaterepresentation of data crossingdifferent technologies,etc. **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Unstructured Data Storage Function – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second Oracle Communications Common Signaling for Database Applications - per 25k Subscribers
	Oracle Communications Common Signaling,	**Description:** The sub-product adds the following features tothe Oracle Communications Diameter Signaling Router The Diameter RoutingAgent(DRA) providesabilitytoroute

Product	Subproduct	LicensingInformation
	Diameter Routing Agent – per Node	diameter messages between Network Functions (NF) in the 4G network **Prerequisites:**The following license is prerequisite to license and use Oracle Communications Common Signaling, Diameter Routing Agent – per Node Oracle Communications Common Signaling – per Signaling Unit – per Message per Second

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Oracle Communications Diameter Signaling Router – Licensing Notes – Legacy

Product	Subproduct	Licensing Information
Oracle Communications Diameter Signaling Router	EXG DSR MPS Per Node	**Description**: Determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: Processing ofan ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. Transmission of anyDiameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA Ingress Diameter messages discarded by the DSR due to Overload controls Answers received in response to Message Copy Nodal MPS is calculated as the peak 5-minute interval of the signaling node. A node is defined as a network element that is managed by a single system operation, alarms, and measurements server pair. Orderable in MPS increments that match MPS capacity product description. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR IPSEC MPS Per Node	**Description**: Determines the maximum number of nodal Messages per Second (MPS) using IPsec encryption allowed by Oracle Communications Diameter Signaling Router. Orderable in MPS increments that match IPsec MPS capacity product description. Signaling Router EXG DSR MPS Per Node is a prerequisite to license and use Oracle Communications Diameter Signaling Router EXG DSR IPSEC Per Node. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	EXG DSR Connections per Node	**Description**: Determines the number of connections allowed by Oracle Communications Diameter Signaling Router. A connectionis definedas an SCTP association or a TCP/IP connection. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR ADDL Routing Pkg 1	**Description**: Enables the capability per node of the Oracle Communications Diameter Signaling Router to route based on Command Code and Origin-Realm. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR ADDL Routing Entries per Node	**Description**: Determines the number ofrouting entries allowed by Oracle Communications Diameter Signaling Router. A routingentry is defined as an entry in theDSRrouting table. Orderableinincrementsthat matchproductdescription. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR NPA Splits Per Node	**Description**: This sub-product enables the Oracle Communications Diameter Signaling Router Subscriber Database Server to create temporary duplicate MSISDN records automatically during Numbering Plan Area (NPA) split process. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR LTE Address Resolution	**Description**: This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router for the LTE HSS. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-ID, Command Code, Routing Entity type, and Individual Routing Entity. This sub- product adds the following functionality to the Oracle Communications Diameter Signaling Router: **SubscriberDatabase Server** –Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits. **Database Processo**r – Provides real-time access to the subscriber database at the signaling node. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	EXG DSR IMS Address Resolution	**Description**: This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router for the IMS HSS. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-ID, Command Code, Routing Entity type, and Individual Routing Entity. This sub- product adds the following functionality to the Oracle Communications Diameter Signaling Router: **Subscriber Database Server** –Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. **Database Processor**– Provides real-time access to the subscriber database at the signaling node. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR IMS Range Address Resolution	**Description**: This sub-product adds range based address resolution features per node to the Oracle Communications Diameter Signaling Router for IMS. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: Routing based on app-ID, Command Code, Routing Entity Type, and Routing Entity address ranges Routing Entity types can be a user identity (IMSI, MSISDN, IMPI or IMPU) or an IP address Allows definition of a prioritized (primary and secondary) Routing Entity type and associated range for each app- ID/Command Code combination. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR LTE Range Address Resolution	**Description**: This sub-product adds range based address resolution features per node to the Oracle Communications Diameter Signaling Router for LTE. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: Routing based on app-ID, Command Code, Routing Entity Type, and Routing Entity address ranges Routing Entity types can be a user identity (IMSI, MSISDN, IMPI or IMPU) or an IP address Allows definition of a prioritized (primary and secondary) Routing Entity type and associated range for each app- ID/Command Code combination. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	EXG DSR SLF	**Description**: This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-ID, Command Code, Routing Entity type, and Individual Routing Entity. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: **SubscriberDatabase Server** –Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits. **Database Processor**– Provides real-time access to the subscriber database at the signaling node. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Subscribers	**Description**: Determines the number of subscribers or entities allowed per node by Oracle Diameter Signaling Router for full address resolution. Each entry (entity) in the provisioned subscriber database server (SDS) counts as one subscriber. Orderable in subscriber increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.
	SDS Software Kernel	**Description**: This sub-product enables per node the Oracle Communications Diameter Signaling Router Subscriber Database Server (SDS), which is used for IMS or LTE Full Address Resolution or SLF. **Restrictions**: This product SKU is for legacy customer applications only.
	SDS Query Server	**Description**: This sub-product enables per node the Oracle Communications Diameter Signaling Router Subscriber Database Server (SDS) for an offline version of the address resolution database on a query server. This function is used for IMS or LTE Full Address Resolution or SLF. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	EXG DSR Message Throttling	**Description**: This sub-product enables per node message throttling in the Oracle Communications Diameter Signaling Router. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: Per-connection Ingress MPS control Per-connection Egress Message throttling Remote BUSY congestion control Remote Transport congestion control **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Mediation Rules Per Node	**Description**: This sub-product adds Diameter Mediation tothe Oracle Communications Diameter Signaling Router. Diameter Mediation is a GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. A mediation rule is defined as a rules template, which contains multiple conditions and actions associated with the mediation function. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR OFCS Topology Hiding Per Node	**Description**: This sub-product adds Off-Line Charging topology hiding to the Oracle Communications Diameter Signaling Router. This sub-product provides topology hiding to and from Charging Trigger Functions and Charging Data Functions. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Concurrent Sessions	**Description**: Determines the number of concurrent Diameter sessions allowed per node by Oracle Communications Diameter Signaling Router for policy proxy or off-line charging proxy. Licensing for concurrent sessions is provided on a per node basis. Nodal concurrent sessions are calculated as the peak 5- minute interval of the signaling node managed by a single system operation, administration, and maintenance server pair. Orderable in session increments that match session capacity product description. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR IPFEGB/S	Determines the bandwidth per node of the IP Front End allowed by Oracle Communications Diameter Signaling Router. Orderable in bandwidth increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	EXG DSR Policy Topology Hiding Per Node	**Description**: This sub-product adds policy topology hiding to the Oracle Communications Diameter Signaling Router. This feature hides the identities PCRFs from other elements in the network. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Remote Congestion Control Per Node	**Description**: This sub-product enables the following remote congestion control features in the Oracle Communications Diameter Signaling Router: Remote BUSY congestion control Remote Transport congestion control **Restrictions**: This product SKU is for legacy customer
	EXG DSR Per Connection TPS Controls Per Node	**Description**: This sub-product enables the following per connection message control features in the Oracle Communications Diameter Signaling Router: Per-connection Ingress MPS control Per-connection Egress Message throttling **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Policy DRA Per Node	**Description**: This sub-product adds Policy DRA to the Oracle Communications Diameter Signaling Router. Policy DRA enables dynamic routing of subscriber sessions to PCRFs, distributes Gx/Gxx/S9/Rx sessions across PCRFs and provides network-wide subscriber session binding **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Policy Correlation PerNode	**Description**: This sub-product adds policy proxy correlation to the Oracle Communications Diameter Signaling Router. Policy correlation provides session correlation across interfaces, such as Gx and Rx, and across mated DSR pairs. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR 5K MPS Per Network	**Description**: Determines the maximum number of network- wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: Processing ofan ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. Transmission of anyDiameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA Ingress Diameter messages discarded by the DSR due to Overload controls Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in increments that match product description. **Restrictions**: This license is for specific legacy customer applications only.
	DSR 5M Concurrent Sessions PerNetwork	**Description**: Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Concurrent Sessions per 5MPer Network	**Description**: Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	SDS XML toPDBI Conversion PerNetwork	**Description**: This sub-product adds an XML to PDBI conversion capability to the Oracle Communications Diameter Signaling Router Subscriber Database Server. This interface conversion allows for interoperability between the Subscriber Database Server and legacy PDBI network elements. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR MPS Per 100K Per Network	**Description**: Determines the maximum number of network- wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: Processing ofan ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. Transmission of anyDiameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA Ingress Diameter messages discarded by the DSR due to Overload controls Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Core Routing Per Blade	This sub-product provides the following base Oracle Communications Diameter Signaling Router functionality: **OAM** –Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Core Routing** – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. **Congestion Management**–Ingress and egress, local and remote Diameter congestion control. **Connection Management**–TCP, SCTP uni- and multi- homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange. **Diameter Mediation** –GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **RangeBasedAddressResolution**–Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. **Message Copy**–Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **IPFront End** –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant**–The Diameter Signaling Router can be deployed with or without geo-redundancy. components are engineered with high levels of redundancy to ensure high availability. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Policy Proxy Per Blade	**Description**: This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router. The policy proxy enables dynamic routing of subscriber sessions to PCRFs and supports the following capabilities: Distributes Gx/Gxx/S9/Rx sessions across PCRFs Provides network-wide subscriber session binding Provides session correlation across mated pairs Performs topology hiding to hide the identities of the PCRFs from other elements in the network. Orderable in increments that match product description. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Diameter MPS Per Network	**Description**: Determines the maximum number of network- wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: Processing ofan ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. Transmission of anyDiameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA Ingress Diameter messages discarded by the DSR due to Overload controls Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in single MPS increments. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Policy Concurrent	**Description**: Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter
	Sessions Per Network	Signaling Router for policy proxy. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in single session increments. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Subscribers – Per Network	**Description**: Determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Each entry (entity) in the provisioned subscriber database server (SDS) counts as one subscriber. Orderable in single subscriber increments. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Core Routing Per Server	**Description**: This sub-product provides the following base Oracle Communications Diameter Signaling Router functionality: **OAM** –Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Core Routing** – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. **Congestion Management**–Ingress and egress, local and remote Diameter congestion control. **Connection Management**–TCP, SCTP uni- and multi- homing, IPv4-IPv6 interworking, IPSec, load balancing, and capabilities exchange. **Diameter Mediation** –GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **RangeBasedAddress Resolution**–Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type, and routing entity address ranges. **Message Copy**–Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **IPFront End** – TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant**–The Diameter Signaling Router can be deployed with or without geo-redundancy. **High Availability**–All message processing critical components are engineered with high levels of redundancy to ensure high availability. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Policy Proxy Per Server	**Description**: This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router. Policy Proxy enables dynamic routing of subscriber sessions to PCRFs. Policy Proxy supports the following capabilities: Distributes Gx/Gxx/S9/Rx sessions across PCRFs Provides network-wide subscriber session binding Provides session correlation across mated pairs Performs topology hiding to hide the identities of the PCRFs from other elements in the network. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Charging Proxy OFCS PerServer	**Description**: This sub-product adds off-line charging server proxy to the Oracle Communications Diameter Signaling Router. The off-line charging proxy supports a Diameter proxy agent over the Rf interface between multiple Charging Trigger Function (CTF) clients such as PGWs, SGWs, GGSNs, CSFCs, and multiple Charging Data Function (CDF) servers. The following features are provided with this sub-product: Session/Subscriber Binding Repository Charging Topology Hiding **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Address Resolution Proxy Per Server	**Description**: This sub-product adds full address resolution to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-ID, Command Code, Routing Entity type, and Individual Routing Entity. The following features are provided with this sub-product: **Subscriber Database Server** –Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. **Database Processor**– Provides real-time access to the subscriber database at the signaling node. IMS HSS Address Resolution LTE HSS Address Resolution **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Roaming Proxy Per Server	**Description**: This sub-product adds roaming proxyto the Oracle Communications Diameter Signaling Router. The following features are provided with this sub-product: • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Software Per lab	**Description**: This sub-product provides access to all functionality in the Oracle Communications Diameter Signaling Router and all sub-products for non-production lab or test environments. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Diameter MPS PerNode	**Description**: This sub-product includes base functionality ofthe Oracle Communications Diameter Signaling Router and determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. The base functionality consists of: • Connections – Routes – Additional routing package – IPsec MPS – Diameter Mediation rules – Message copy – Message throttling – Remote Congestion control – LTE and IMS Range based address resolution – Per connection TPS controls An MPS is defined as: – Processing ofan ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. – Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Nodal MPS is calculated as the peak 5-minute interval of the signaling node. A node is defined as a network element that is managed by a single system operation, alarms, and measurements server pair. Orderable in single MPS increments. **Restrictions**: This license is for specific legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Initial Content Per Server	**Description**: This sub-product provides the base Oracle Communications Diameter Signaling Router functionality as follows: **OAM** –Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Core Routing** – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. **Congestion Management**–Ingress and egress, local and remote Diameter congestion control. **Connection Management**–TCP, SCTP uni- and multi- homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange. **Diameter Mediation** –GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **RangeBasedAddress Resolution**–Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. **IPFront End** – TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant**–The Diameter Signaling Router can be deployed with or without geo-redundancy. **High Availability**–All message processing critical components are engineered with high levels of redundancy to ensure high availability. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR 5 Initial Content Per Server	**Description**: This sub-product provides Oracle Communications Diameter Signaling Router functionality as follows: **OAM** –Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Core Routing** – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. **Congestion Management**–Ingress and egress, local and remote Diameter congestion control. **Connection Management**–TCP, SCTP uni- and multi- homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange. **Diameter Mediation** –GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **RangeBasedAddress Resolution**–Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. **Message Copy**–Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **IPFront End** –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant**–The Diameter Signaling Router can be deployed with or without geo-redundancy. **High Availability**–All message processing critical components are engineered with high levels of redundancy to ensure high availability. **PolicyProxy** **Off-LineChargingProxyRoamingProxyMessageCopy** **FullAddressResolutionProxy** **Restrictions**: This product SKU is for legacy customer applications only.
	DSR 5 Content Bundle Per Server	**Description**: This sub-product adds all DSR 5.0 content to the Oracle Communications Diameter Signaling Router: **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR RMS Initial Content Per Server	**Description**: This sub-product provides Oracle Communications Diameter Signaling Router functionality as follows: **OAM** –Operations, administration, measurements functionality including: SNMP, event logs, security logs, configuration, topology, user/group management, and reports. **Core Routing** – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. **Congestion Management**–Ingress and egress, local and remote Diameter congestion control. **Connection Management**–TCP, SCTP uni- and multi- homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange. **Diameter Mediation** –GUI-based Diameter mediation framework used to build mediation rules to resolve inter- operability issues. **RangeBasedAddress Resolution**–Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. **Message Copy**–Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **IPFront End** – TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. **Geo-redundant**–The Diameter Signaling Router can be deployed with or without geo-redundancy. **High Availability**–All message processing critical components are engineered with high levels of redundancy to ensure high availability. **RoamingProxyMessageCopy** **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Policy Proxy	**Description**: This sub-product adds policy proxy to the

Product	Subproduct	Licensing Information
	IPer Server	Oracle Communications Diameter Signaling Router. The policy proxy enables dynamic routing of subscriber sessions to PCRFs and supports the following capabilities: Distributes Gx/Gxx/S9/Rx sessions across PCRFs Provides network-wide subscriber session binding Provides session correlation across mated pairs Performs topology hiding to hide the identities of the PCRFs from other elements in the network. **Prerequisites**: Alicense to DSR Initial Content Per Server is a prerequisite to license and use DSR Policy Proxy I Per Server **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Full Address Resolution I Per Server	**Description**: This sub-product adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-ID, Command Code, Routing Entity type, and Individual Routing Entity. The following features are provided with this sub-product: **Subscriber Database Server** –Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. **Database Processor**– Provides real-time access to the subscriber database at the signaling node. IMS HSS Address Resolution LTE HSS Address Resolution **Prerequisites**: Alicense to DSR Initial Content Per Server is a prerequisite to license and use DSR Full Address Resolution I Per Server. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR Message CopyPer Node	**Description**: This sub-product adds message copy capability to the Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR HSS Topology Hiding Per Node	**Description**: This sub-product adds HSS Topology Hiding to the Oracle Communications Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR MME Topology Hiding Per Node	**Description**: This sub-product adds MME Topology Hiding to the Oracle Communications Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	EXG DSR Path Topology Hiding Per Node	**Description**: This sub-product adds Path Topology Hiding to the Oracle Communications Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Blacklisting Per Node	**Description**: This sub-product adds Blacklisting support to the Oracle Communications Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR User Config MSG Priority Per Node	**Description**: This sub-product adds user configurable message priority to the Oracle Communications Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Message CopyPer Server	**Description**: This sub-product adds message copy capability to the Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR RMS Message CopyPer Server	**Description**: This sub-product adds message copy capability to the rack-mount Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR IPFE II Per Server	**Description**: This sub-product adds IPFE features to the Oracle Communications Diameter Signaling Router. The IPFE features added by this sub-product are: • SCTP Multi-Homing for IPFE • Enhanced load balancing **Restrictions**: This product SKU is for legacy customer applications only.
	DSR RMS IPFE II Per Server	**Description**: This sub-product adds IPFE features to the rack-mount Oracle Communications Diameter Signaling Router. The IPFE features added by this sub-product are: • SCTP Multi-Homing for IPFE • Enhanced load balancing **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Core Routing III Per Server	**Description**: This sub-product adds core routing features to the Oracle Communications Diameter Signaling Router.The core routing features added by this sub-product are: • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations **Restrictions**: This product SKU is for legacy customer applications only.
	DSR RMS Core Routing IIIPer Server	**Description**: This sub-product adds core routing features to the rack-mount Oracle Communications Diameter Signaling Router. The core routing features added by this sub-product are: • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Roaming Proxy Topology Hiding IPer Server	**Description**: This sub-product adds roaming proxy features to the Oracle Communications Diameter Signaling Router. The following features are added to this sub-product: • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding **Restrictions**: This product SKU is for legacy customer applications only.
	DSR RMS Roaming Proxy Topology Hiding IPer Server	**Description**: This sub-product adds roaming proxy features to the rack-mount Oracle Communications Diameter Signaling Router. The following features are added to this sub-product: • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Full Address Resolution II Per Server	**Description**: This sub-product adds full address resolution features to the Oracle Communications Diameter Signaling Router Full Address Resolution I license. The full address resolution features added by this sub-product are: • Blacklisting support • Ability to activate range and full address resolution on the same message **Restrictions**: This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR Charging Concurrent Sessions Per Network	**Description**: Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for Online Charging Proxy (OCS). Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operation, administration, and maintenance node. Orderable in single session increments. **Restrictions**: This product SKU is for legacy customer applications only.
	DSR Charging Proxy OCS Proxy Per Server	**Description**: This sub-product adds online charging server proxy features to the Oracle Communications Diameter Signaling Router. The online charging proxy supports a stateful Diameter proxy agent over the Gy interface between multiple charging clients such as LTE PGWs, 3G GGSNs, IMS AFs, and multiple online charging servers (OCS). **Restrictions**: This product SKU is for legacy customer applications only.

6

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		----------
		src/rdxxhash.[ch] src/lz4*.[ch]: git@github.com:lz4/lz4.git 5ff839680134437dbf4678f3d0c7b371d84f4964
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		---------- 	
		parts of src/rdmurmur2.c:
		git@github.com:abrandoned/murmur2.git
		MurMurHash2 Library
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		# 1.0 version updates 0.1 version by adding mappings for all # control characters. # # Updated versions of this file may be found in: # <ftp://ftp.unicode.org/Public/MAPPINGS/> # # Any comments or problems, contact <errata@unicode.org> # Please note that <errata@unicode.org> is an archival address; # notices will be checked, but do not expect an immediate response. # file: ext/standard/html_tables/mappings/ROMAN.TXT #========== ========== # File name: ROMAN.TXT # # Contents: Map (external version) from Mac OS Roman # character set to Unicode 2.1 and later. # # Copyright: (c) 1994-2002, 2005 by Apple Computer, Inc., all rights # reserved. # # Contact: charsets@apple.com # # Changes: # # c02 2005-Apr-05 Update header comments. Matches internal xml # <c1.1> and Text Encoding Converter 2.0. # b4,c1 2002-Dec-19 Update URLs, notes. Matches internal # utom<b5>. # b03 1999-Sep-22 Update contact e-mail address. Matches # internal utom<b4>, ufrm<b3>, and Text # Encoding Converter version 1.5. # b02 1998-Aug-18 Encoding changed for Mac OS 8.5; change # mapping of 0xDB from CURRENCY SIGN to # EURO SIGN. Matches internal utom<b3>,

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		# ufrm<b3>. # n08 1998-Feb-05 Minor update to header comments # n06 1997-Dec-14 Add warning about future changes to 0xDB # from CURRENCY SIGN to EURO SIGN. Clarify # some header information # n04 1997-Dec-01 Update to match internal utom<n3>, ufrm<n22>: # Change standard mapping for 0xBD from U+2126 # to its canonical decomposition, U+03A9. # n03 1995-Apr-15 First version (after fixing some typos). # Matches internal ufrm<n9>. # # Standard header: # ---------- # # Apple, the Apple logo, and Macintosh are trademarks of Apple # Computer, Inc., registered in the United States and other countries. # Unicode is a trademark of Unicode Inc. For the sake of brevity, # throughout this document, "Macintosh" can be used to refer to # Macintosh computers and "Unicode" can be used to refer to the # Unicode standard. # # Apple Computer, Inc. ("Apple") makes no warranty or representation, # either express or implied, with respect to this document and the # included data, its quality, accuracy, or fitness for a particular # purpose. In no event will Apple be liable for direct, indirect, # special, incidental, or consequential damages resulting from any # defect or inaccuracy in this document or the included data. # # These mapping tables and character lists are subject to change. # The latest tables should be available from the following:

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		ext/random/engine_mt19937.c Mersenne Twister random number generator -- a C++ class MTRand Based on code by Makoto Matsumoto, Takuji Nishimura, and Shawn Cokus Richard J. Wagner v1.0 15 May 2003 rjwagner@writeme.com The Mersenne Twister is an algorithm for generating random numbers. It was designed with consideration of the flaws in various other generators. The period, 2^19937-1, and the order of equidistribution, 623 dimensions, are far greater. The generator is also fast; it avoids multiplication and division, and it benefits from caches and pipelines. For more information see the inventors' web page at http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html Reference M. Matsumoto and T. Nishimura, "Mersenne Twister: A 623-Dimensionally Equidistributed Uniform Pseudo-Random Number Generator", ACM Transactions on Modeling and Computer Simulation, Vol. 8, No. 1, January 1998, pp 3-30. Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, Copyright (C) 2000 - 2003, Richard J. Wagner All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

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