

**Oracle® Communications
Diameter Signaling Router
Licensing Information User Manual
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ORACLE®

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Introduction

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Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
Oracle Communications Diameter Signaling Router	Oracle Communications Diameter Signaling Router (base fee)- per Server	<p>This product provides the following base Diameter Signaling Router functionality:</p> <p>OAM – Operations, administration, measurements functionality: SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Included Products:</p> <ul style="list-style-type: none"> • MySQL Enterprise Edition <p>Restriction:</p> <p>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).</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router (capacity) – per 100 Network-wide Messages per Second	<p>Description: Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • 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 <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in 100 MPS increments.</p> <p>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)</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Roaming Proxy - per Server	<p>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</p> <p>Prerequisites: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roving 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.</p>
	Oracle Communications Diameter Signaling Router Full Address Resolution – per Server	<p>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:</p> <p>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.</p> <p>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 Resolution.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Full Address Resolution – per 25k Subscribers	<p>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.</p> <p>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.</p>
	Oracle Communications Diameter Signaling Router Policy Proxy – per Server	<p>Description: This sub-product adds policy proxy to the Oracle Communicaitons 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.</p> <p>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.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Policy Proxy – per 5K Network-wide Concurrent Sessions	<p>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.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in 5k session increments.</p> <p>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 is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy per 5k Network-wide Concurrent Sessions.</p>
	Oracle Communications Diameter Signaling Router Online Charging Proxy – per 5K Network-wide Concurrent Sessions	<p>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.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in 5k session increments.</p> <p>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 Network-wide 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 Charging Proxy per 5k Network-wide Concurrent Sessions.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router, Policy Proxy II – per Server	<p>Description: This sub-product adds policy proxy features to the Oracle Communications Diameter Signaling Router Policy Proxy.</p> <p>This sub-product adds::</p> <ul style="list-style-type: none"> • 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 <p>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.</p>
	Oracle Communications Diameter Signaling Router Translation Agent Base – per Server	<p>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.</p> <p>Prerequisites: 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 Agent Base.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router, Core Routing I – per Server	<p>Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.</p> <p>The following features are added with this sub-product:</p> <ul style="list-style-type: none"> • Active/Standby Peer Node Support • Mediation Enhancements: <ul style="list-style-type: none"> ○ 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 <p>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 I.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router, Core Routing II – Per Server	<p>Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.</p> <p>The following features are added with this sub-product:</p> <ul style="list-style-type: none"> • IPFE Enhancements: <ul style="list-style-type: none"> ○ Peer Node Group aware least load distribution algorithm ○ IPFE initiator support: DSR 'initiator only' connections • Mediation Enhancements: <ul style="list-style-type: none"> ○ 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 <p>Prerequisites: A license to Oracle Communications Diameter Signaling Router Core Routing I is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing II.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router, Core Routing III – Per Server	<p>Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.</p> <p>The following features are added with this sub-product:</p> <ul style="list-style-type: none"> • IPFE Enhancements: <ul style="list-style-type: none"> ○ IPFE Initiator + Responder Support • Mediation Enhancements: <ul style="list-style-type: none"> ○ 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 <p>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.</p>
	Oracle Communications Diameter Signaling Router, Core Routing IV – Per Server	<p>Description: This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.</p> <p>The following features are added with this sub-product:</p> <ul style="list-style-type: none"> • Mediation Enhancements: <ul style="list-style-type: none"> ○ 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 <p>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.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling, Roaming Proxy II – Per Server	<p>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</p> <p>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.</p>
	Oracle Communications Diameter Signaling Router, Online Charging Proxy – Per Server	<p>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).</p> <p>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</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Translation Agent RADIUS- per Server	<p>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 WiFi 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.</p> <p>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.</p>

Product	Subproduct	Licensing Description
Oracle Communications Integrated Diameter Intelligence Hub	Oracle Communications Integrated Diameter Intelligence Hub – per Server	<p>Description: This product provides a troubleshooting tool for the Oracle Communications Diameter Signaling Router. This product:</p> <ul style="list-style-type: none"> • 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 <p>Prerequisites: A license to Oracle Communications Technology Foundation for Monitoring Applications is a prerequisite to license and use Oracle Communications Integrated Diameter Intelligence Hub or a license to the following products: Oracle Database Enterprise Edition Oracle Database Enterprise Edition Option: Partitioning WebLogic Server Enterprise Edition are prerequisites to license and use Oracle Communications Integrated Diameter Intelligence Hub.</p> <p>Included Products:</p> <ul style="list-style-type: none"> • MySQL Enterprise Edition <p>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.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Network Integrated Diameter Intelligence Hub – per Server	<p>Description: This sub-product provides network-wide Integrated Diameter Intelligence Hub (DIH) which enables correlation of trace data across a network of Integrated DIH instances. This sub-product:</p> <ul style="list-style-type: none"> • Provides the ability to correlate trace data across a network of Integrated DIH 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 node/server in the network to enable a network view. <p>Prerequisites: A license to Oracle Communications Integrated Diameter Intelligence Hub is a prerequisite to license and use Oracle Communications Network Integrated Diameter Intelligence Hub.</p>

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.

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
<p>Oracle Communications Diameter Signaling Router</p>	<p>Oracle Communications Diameter Signaling Router Network Function Edition - per Network-wide Messages per Second Perpetual</p>	<p>Description: This product provides the following base Diameter Signaling Router functionality on a network-wide basis.</p> <p>OAM – Operations, administration, measurements functionality:</p> <p>SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Core Routing – All core routing and process functionality which includes specific handling of real-time Diameter messages</p> <p>Active/Standby Peer Node Support, and mediation enhancement features to the Oracle Communications Diameter Signaling Router</p> <p>Roaming Proxy – All roaming proxy functionality for the Oracle Communication Diameter Signaling Router.</p> <p>Translation Agent – All Diameter Interworking functionality for the Oracle Communication Diameter Signaling Router.</p> <p>Included Products:</p> <ul style="list-style-type: none"> MySQL Enterprise Edition <p>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.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Network Function Edition for Database Applications - per 25k Subscribers Perpetual	<p>Description: This product provides subscriber application Diameter Signaling Router functionality, such as Full Address Based Resolution, on a network-wide basis.</p> <p>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.</p>
	Oracle Communications Diameter Signaling Router Network Function Edition for Stateful Applications - per 5k Network-wide Concurrent Sessions Perpetual	<p>Description: This product provides stateful session application Diameter Signaling Router functionality, such as PolicyProxy and On-line Charging Proxy, on a network-wide basis.</p> <p>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.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition - per Server Perpetual	<p>Description: This product provides a troubleshooting tool for the Oracle Communications Diameter Signaling Router Network Function Edition.</p> <p>Prerequisites: A license to Oracle Communications Technology Foundation for Monitoring Applications is a prerequisite to license and use Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition or a license to the following products: Oracle Database Enterprise Edition Oracle Database Enterprise Edition Option: Partitioning WebLogic Server Enterprise Edition are prerequisites to license and use Oracle Communications Integrated Diameter Intelligence Hub Network Function Edition.</p> <p>Included Products:</p> <ul style="list-style-type: none"> MySQL Enterprise Edition <p>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.</p>

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.

Prerequisite Products

Entitled Products and Restricted Use Licenses

<p>Oracle Communications Common Signaling</p>	<p>Oracle Communications Common Signaling – per Signaling Unit</p>	<p>Description: This product provides the following base Diameter Signaling Router functionality on a network-wide basis.</p> <p>OAM – Operations, administration, measurements functionality:</p> <p>SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Core Routing – All core routing and process functionality which includes specific handling of real-time Diameter messages</p> <p>Active/Standby Peer Node Support, and mediation enhancement features to the Oracle Communications Diameter Signaling Router</p> <p>Roaming Proxy – All roaming proxy functionality for the Oracle Communication Diameter Signaling Router.</p> <p>Translation Agent – All Diameter Interworking functionality for the Oracle Communication Diameter Signaling Router.</p> <p>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.</p> <p>Included Products:</p> <ul style="list-style-type: none"> MySQL Enterprise Edition <p>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.</p>
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	<p>Oracle Communications Common Signaling for Database Applications - per 25k Subscribers Perpetual</p>	<p>Description: This product provides subscriber application Diameter Signaling Router functionality, such as Full Address Based Resolution, on a network-wide basis.</p> <p>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.</p> <p>Prerequisites: A license to Oracle Communications Common Signaling is a prerequisite to license and use Oracle Communications Common Signaling for Database Applications.</p>
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Oracle Communications Diameter Signaling Router – Licensing Notes – Legacy

Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
Oracle Communications Diameter Signaling Router	EXG DSR MPS Per Node	<p>Determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • 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 <p>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 operations, alarms and measurements server pair.</p> <p>Orderable in MPS increments that match MPS capacity product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR IPSEC MPS Per Node	<p>Determines the maximum number of nodal Messages per Second (MPS) using IPsec encryption allowed by Oracle Communications Diameter Signaling Router.</p> <p>Orderable in MPS increments that match IPsec MPS capacity product description.</p> <p>Prerequisites:</p> <p>A license to Oracle Communications Diameter Signaling Router EXG DSR MPS Per Node is a prerequisite to license and use Oracle Communications Diameter Signaling Router EXG DSR IPSEC Per Node.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Connections per Node	<p>Determines the number of connections allowed by Oracle Communications Diameter Signaling Router.</p> <p>A connection is defined as an SCTP association or a TCP/IP connection.</p> <p>Orderable in increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR ADDL Routing Pkg 1	<p>Enables the capability per node of the Oracle Communications Diameter Signaling Router to route based on Command Code and Origin Realm.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR ADDL Routing Entries per Node	<p>Determines the number of routing entries allowed by Oracle Communications Diameter Signaling Router.</p> <p>A routing entry is defined as an entry in the DSR routing table.</p> <p>Orderable in increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR NPA Splits Per Node	<p>This sub-product enables the Oracle Communications Diameter Signaling Router Subscriber Database Server to automatically create temporary duplicate MSISDN records during Numbering Plan Area (NPA) split process.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR LTE Address Resolution	<p>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:</p> <p>Subscriber Database Server – Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits.</p> <p>Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR IMS Address Resolution	<p>This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router for the IMSHSS. 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:</p> <p>Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits.</p> <p>Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR IMS Range Address Resolution	<p>This sub-product adds range based address resolution features per node to the Oracle Communications Diameter Signaling Router for IMS.</p> <p>This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router:</p> <ul style="list-style-type: none"> • Routing based on appl-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. <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR LTE Range Address Resolution	<p>This sub-product adds range based address resolution features per node to the Oracle Communications Diameter Signaling Router for LTE.</p> <p>This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router:</p> <ul style="list-style-type: none"> • Routing based on appl-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. <p>Restrictions: fg</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR SLF	<p>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:</p> <p>Subscriber Database Server – Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits.</p> <p>Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR Subscribers	<p>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.</p> <p>Orderable in subscriber increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	SDS Software Kernel	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	SDS Query Server	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Message Throttling	<p>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:</p> <ul style="list-style-type: none"> • Per-connection Ingress MPS control • Per-connection Egress Message throttling • Remote BUSY congestion control • Remote Transport congestion control <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR Mediation Rules Per Node	<p>This sub-product adds Diameter Mediation to the 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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR OFCS Topology Hiding Per Node	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Concurrent Sessions	<p>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.</p> <p>Nodal concurrent sessions are calculated as the peak 5-minute interval of the signaling node managed by a single system operations, administration and maintenance server pair.</p> <p>Orderable in session increments that match session capacity product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR IPFE GB/S	<p>Determines the bandwidth per node of the IP Front End allowed by Oracle Communications Diameter Signaling Router.</p> <p>Orderable in bandwidth increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Policy Topology Hiding Per Node	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Remote Congestion Control Per Node	<p>This sub-product enables the following remote congestion control features in the Oracle Communications Diameter Signaling Router:</p> <ul style="list-style-type: none"> • Remote BUSY congestion control • Remote Transport congestion control <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Per Connection TPS Controls Per Node	<p>This sub-product enables the following per connection message control features in the Oracle Communications Diameter Signaling Router:</p> <ul style="list-style-type: none"> • Per-connection Ingress MPS control • Per-connection Egress Message throttling <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR Policy DRA Per Node	<p>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</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Policy Correlation Per Node	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR 5K MPS Per Network	<p>Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • 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 <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in increments that match product description.</p> <p>Restrictions:</p> <p>This license is for specific legacy customer applications only.</p>
	DSR 5M Concurrent Sessions Per Network	<p>Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Concurrent Sessions per 5M Per Network	<p>Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	SDS XML to PDBI Conversion Per Network	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR MPS Per 100K Per Network	<p>Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • 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 <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in increments that match product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Core Routing Per Blade	<p>This sub-product provides the following base Oracle Communications Diameter Signaling Router functionality:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Orderable in increments that product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Policy Proxy Per Blade	<p>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:</p> <ul style="list-style-type: none"> • 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. <p>Orderable in increments that product description.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Diameter MPS Per Network	<p>Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • 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 <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in single MPS increments.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Policy Concurrent Sessions Per Network	<p>Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in single session increments.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Subscribers - Per Network	<p>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.</p> <p>Orderable in single subscriber increments.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Core Routing Per Server	<p>This sub-product provides the following base Oracle Communications Diameter Signaling Router functionality</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Policy Proxy Per Server	<p>This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router. Policy Proxy enables dynamic routing of subscriber sessions to PCRFs.</p> <p>Policy Proxy supports the following capabilities:</p> <ul style="list-style-type: none"> • 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. <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Charging Proxy OFCS Per Server	<p>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:</p> <ul style="list-style-type: none"> • Session/Subscriber Binding Repository • Charging Topology Hiding <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Address Resolution Proxy Per Server	<p>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:</p> <ul style="list-style-type: none"> • 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 <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Roaming Proxy Per Server	<p>This sub-product adds roaming proxy to the Oracle Communications Diameter Signaling Router. The following features are provided with this sub-product:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Software Per lab	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Diameter MPS Per Node	<p>This sub-product includes base functionality of the Oracle Communications Diameter Signaling Router and determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router.</p> <p>The base functionality consists of:</p> <ul style="list-style-type: none"> • 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 <p>An MPS is defined as:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • 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 <p>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 operations, alarms and measurements server pair.</p> <p>Orderable in single MPS increments.</p> <p>Restrictions:</p> <p>This license is for specific legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Initial Content Per Server	<p>This sub-product provides the base Oracle Communications Diameter Signaling Router functionality as follows:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>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.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR 5 Initial Content Per Server	<p>This sub-product provides Oracle Communications Diameter Signaling Router functionality as follows:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Policy Proxy</p> <p>Off-Line Charging Proxy</p> <p>Roaming Proxy</p> <p>Message Copy</p> <p>Full Address Resolution Proxy</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR 5 Content Bundle Per Server	<p>This sub-product adds all DSR 5.0 content to the Oracle Communications Diameter Signaling Router:</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR RMS Initial Content Per Server	<p>This sub-product provides Oracle Communications Diameter Signaling Router functionality as follows:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>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.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>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.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Roaming Proxy</p> <p>Message Copy</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Policy Proxy I Per Server	<p>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:</p> <ul style="list-style-type: none"> • 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. <p>Prerequisites:</p> <p>A license to DSR Initial Content Per Server is a prerequisite to license and use DSR Policy Proxy I Per Server.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Full Address Resolution I Per Server	<p>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:</p> <ul style="list-style-type: none"> • 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 <p>Prerequisites:</p> <p>A license to DSR Initial Content Per Server is a prerequisite to license and use DSR Full Address Resolution I Per Server</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Message Copy Per Node	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	EXG DSR HSS Topology Hiding Per Node	<p>This sub-product adds HSS Topology Hiding to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR MME Topology Hiding Per Node	<p>This sub-product adds MME Topology Hiding to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	EXG DSR Path Topology Hiding Per Node	<p>This sub-product adds Path Topology Hiding to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Blacklisting Per Node	<p>This sub-product adds Blacklisting support to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR User Config MSG Priority Per Node	<p>This sub-product adds user configurable message priority to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Message Copy Per Server	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR RMS Message Copy Per Server	<p>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.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR IPFE II Per Server	<p>This sub-product adds IPFE features to the Oracle Communications Diameter Signaling Router. The IPFE features added by this sub-product are:</p> <ul style="list-style-type: none"> • SCTP Multi-Homing for IPFE • Enhanced load balancing <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR RMS IPFE II Per Server	<p>This sub-product adds IPFE features to the rack-mount Oracle Communications Diameter Signaling Router. The IPFE features added by this sub-product are:</p> <ul style="list-style-type: none"> • SCTP Multi-Homing for IPFE • Enhanced load balancing <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Core Routing III Per Server	<p>This sub-product adds core routing features to the Oracle Communications Diameter Signaling Router. The core routing features added by this sub-product are:</p> <ul style="list-style-type: none"> • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR RMS Core Routing III Per Server	<p>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:</p> <ul style="list-style-type: none"> • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Roaming Proxy Topology Hiding I Per Server	<p>This sub-product adds roaming proxy features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR RMS Roaming Proxy Topology Hiding I Per Server	<p>This sub-product adds roaming proxy features to the rack-mount Oracle Communications Diameter Signaling Router. The following features are added with this sub-product:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	DSR Full Address Resolution II Per Server	<p>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:</p> <ul style="list-style-type: none"> • Blacklisting support • Ability to activate range and full address resolution on the same message <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Charging Concurrent Sessions Per Network	<p>Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for Online Charging Proxy (OCS).</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in single session increments.</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>
	DSR Charging Proxy OCS Proxy Per Server	<p>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).</p> <p>Restrictions:</p> <p>This product SKU is for legacy customer applications only.</p>

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Open Source Disclosure

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	JDOM-2.0.6	Tool for accessing, manipulating, and outputting XML data from Java code	<p>Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License.</p> <p>APACHE 2.0- See APPENDIX H</p> <p>Copyright © 2004 The Apache Software Foundation. All rights reserved.</p> <p>This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.</p> <p>Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.</p>
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	Ant-1.9.6	Build Utility	<p>Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License.</p> <p>APACHE 2.0- See APPENDIX H</p> <p>Copyright © 2004 The Apache Software Foundation. All rights reserved.</p> <p>This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.</p> <p>Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.</p>
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