Oracle® Communications Diameter Signaling Router

Licensing Information User Manual

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Oracle Communications Diameter Signaling Router Licensing Information User Manual, Release 8.2

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1. Introduction

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2. Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Information
Oracle Communications	Oracle Communications	Description : This product provides the following base Diameter Signaling Router functionality:
Diameter Signaling Router	Diameter Signaling Router	OAM – Operations, administration, measurements functionality including:
	(base fee) – per Server	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 interoperability 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.

Product	Subproduct	Licensing Information
		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).
	Oracle Communications Diameter Signaling Router	Description : Determines the maximum number of networkwide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:
	(capacity) – per 100 Network-wide Messages per Second	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

Product	Subproduct	Licensing Information
		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	Description : This sub-product adds the roaming proxy features listed below to the Oracle Communications Diameter Signaling Router.
	Signaling Router Roaming Proxy –	MME Topology Hiding
	per Server	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.
	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

Product	Subproduct	Licensing Information
		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.
	Oracle Communications Diameter Signaling Router Full Address Resolution – per	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.
	25k Subscribers	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

Product	Subproduct	Licensing Information
		DSR Core Routing per server
		DSR Core Routing per blade
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy.
	Oracle Communications Diameter Signaling Router	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.
	Policy Proxy – per 5K Network-wide Concurrent Sessions	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
		is 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	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.
	Sessions	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 Charging Proxy per 5k Network-wide Concurrent Sessions.

Product	Subproduct	Licensing Information
	Oracle Communications Diameter	Description : This sub-product adds policy proxy features to the Oracle Communications Diameter Signaling Router Policy Proxy.
	Signaling Router, Policy Proxy II –	This sub-product adds:
	per Server	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.
	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.
		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

Product	Subproduct	Licensing Information
		DSR 5 Initial Content per server
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Translation Agent Base.
	Oracle Communications Diameter	Description : This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.
	Signaling Router, Core Routing I –	The following features are added with this sub-product:
	per Server	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

Product	Subproduct	Licensing Information
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing I.
	Oracle Communications Diameter Signaling Router, Core Routing II –	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:
	Per Server	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 Core Routing II.
	Oracle Communications Diameter	Description : This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.
	Signaling Router, Core Routing III –	The following features are added with this sub-product:

Product	Subproduct	Licensing Information
	Per Server	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.
	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

Product	Subproduct	Licensing Information
		and use Oracle Communications Diameter Signaling Router Core Routing IV.
	Oracle Communications Diameter	Description : This sub-product adds Active/Standby Peer Node Support enhancement features to the Oracle Communications Diameter Signaling Router.
	Signaling Router, Core Routing V – Per Server	 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

Product	Subproduct	Licensing Information
		and use Oracle Communications Diameter Signaling Router Core Routing V.
	Oracle Communications Diameter	Description : This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router.
	Signaling Router, Core Routing VI –	The following features are added with this sub-product:
	Per Server	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
	Oracle Communications Diameter	Description : The Oracle Communications Diameter Signaling Router.

Product	Subproduct	Licensing Information
	Signaling Router,	The following features are added with this sub-product:
	Core Routing VII – Per Server	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

Product	Subproduct	Licensing Information
		Signaling Router Core Routing VI is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing VII.
	Oracle Communications Diameter	Description : This sub-product adds the roaming proxy features listed below to the Oracle Communications Diameter Signaling Router.
	Signaling, Roaming Proxy II	S9 PCRF Topology Hiding
	– Per Server	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.
	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

Product	Subproduct	Licensing Information
		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.
Oracle Communications Integrated Diameter Intelligence Hub	Oracle Communications Integrated Diameter Intelligence Hub – per Server	 Router Translation Agent RADIUS. 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 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 Oracle Database Enterprise Edition MebLogic Server Enterprise Edition WebLogic Server Enterprise Edition 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 Backup, is restricted to use with Oracle Communications Integrated
		Diameter Intelligence Hub.
	Oracle Communications Network Integrated Diameter	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:

Product	Subproduct	Licensing Information
	Intelligence Hub – per Server	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.
	Oracle Communications	Description : This sub-product adds the following features to the Oracle Communications Diameter Signaling Router:
	Diameter Signaling Router,	Signaling Transfer Point (STP) functionality
	SS7 Signaling Transfer Point I –	Possibility to combine SS7 and Diameter signaling on the same node
	per server	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 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:

Product	Subproduct	Licensing 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.
	Oracle Communications	Description : This sub-product adds the following features to the Oracle Communications Diameter Signaling Router:
	Diameter Signaling Router, SS7 Signaling Transfer Point II – per server	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	Description : This sub-product adds the following features to the Oracle Communications Diameter Signaling Router:

Product	Subproduct	Licensing Information
	Diameter Signaling Router, Diameter Security Application - Per Server	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

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 multi- homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange.											

Product	Subproduct	Licensing Information
	Oracle Communications Diameter Signaling Router Network Function Edition – per Network-wide Messages per	Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability 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.
	Second Perpetual – continued	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.

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.

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 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.
		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

Product	Subproduct	Licensing Information
Oracle	Oracle Communications Common Signaling – per	Description : Signaling Unit is defined as follows.
Communications Common Signaling		In the case of EAGLE, defined as a 4 nodal TPS which includes failover and engineered throughput.
	Signaling Unit	In the case of DSR, defined as 1 network-wide MPS.
		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, 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.

Product	Subproduct	Licensing Information
	Oracle Communications Common	Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.
	Signaling – per Signaling Unit – continued	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.
		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.
		Included Products:
		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.

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.
	Oracle Communications	Description : This sub-product adds the following features to the Oracle Communications Diameter Signaling Router:
	Common Signaling, SS7 Signaling Transfer Point – per node	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

Product	Subproduct	Licens	sing Information
			 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 up to 2 destinations
		• SC	CCP
		•	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 a weighting for each destination, In-service threshold for a 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.
		Signali Comm to licer	quisites: A license to Oracle Communications Diameter ling Router Network Function Edition (base) or Oracle nunications Common Signaling (base) is a prerequisite use and use Oracle Communications Diameter ling Router, SS7 Signaling Transfer Point.

Product	Subproduct	Licensing Information
	Oracle Communications	Description : This sub-product adds the following features to the Oracle Communications Diameter Signaling Router:
	Common Signaling, Security Application - per NODE	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 is prerequisite to license 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 Networkwide Concurrent Sessions.

5. 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 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

Product	Subproduct	Licensing Information
		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.
		Prerequisites : 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.
		Restrictions : This product SKU is for legacy customer applications only.
	EXG DSR Connections per Node	Description : Determines the number of connections allowed by Oracle Communications Diameter Signaling Router.
		A connection is defined as 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 of routing entries allowed by Oracle Communications Diameter Signaling Router.
		A routing entry is defined as an entry in the DSR routing table.
		Orderable in increments that match product description.
		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.

Product	Subproduct	Licensing Information
		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:
		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.
		Restrictions : This product SKU is for legacy customer applications only.
	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.

Product	Subproduct	Licensing Information
	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.
	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:
		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.
		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.

Product	Subproduct	Licensing Information
	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.
	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 to the Oracle Communications Diameter Signaling Router. Diameter Mediation is a GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability 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.

Product	Subproduct	Licensing Information
		Restrictions : This product SKU is for legacy customer applications only.
	EXG DSR IPFE GB/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.
	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	Description : This sub-product enables the following remote congestion control features in the Oracle Communications Diameter Signaling Router:
	Control Per Node	Remote BUSY congestion control
		Remote Transport congestion control
		Restrictions : This product SKU is for legacy customer applications only.
	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 Per Node	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 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 increments that match product description.
		Restrictions : This license is for specific legacy customer applications only.
	DSR 5M Concurrent Sessions Per	Description : Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.
	Network	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 5M Per 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 to PDBI Conversion Per Network	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 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 increments that match product description.
		Restrictions : This product SKU is for legacy customer applications only.
	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.

Product	Subproduct	Licensing Information
		Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability 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.
		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.
	DSR Diameter MPS Per Network	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.

Product	Subproduct	Licensing Information
		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 Sessions Per	Description : Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.
	Network	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.
	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.

Product	Subproduct	Licensing Information
		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 interoperability 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.
		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.
	DSR Charging Proxy OFCS Per Server	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

Product	Subproduct	Licensing Information
		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 proxy to 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.
	DSR Diameter MPS Per Node	Description : 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.
		The base functionality consists of:
		Connections
		Routes

Product	Subproduct	Licensing Information
		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 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
		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.
	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.

Product	Subproduct	Licensing Information
		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 interoperability 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.
		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.
		Restrictions : This product SKU is for legacy customer applications only.
	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 interoperability 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.

Product	Subproduct	Licensing Information
		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. Policy Proxy
		Off-Line Charging Proxy
		Roaming Proxy
		Message Copy
		Full Address Resolution Proxy
		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.
	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 interoperability 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.

Product	Subproduct	Licensing Information
		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.
		Roaming Proxy
		Message Copy
		Restrictions : This product SKU is for legacy customer applications only.
	DSR Policy Proxy I Per Server	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.
		Prerequisites : A license 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 : A license to DSR Initial Content Per Server is a prerequisite to license and use DSR Full Address Resolution I Per Server.

Product	Subproduct	Licensing Information
		Restrictions : This product SKU is for legacy customer applications only.
	EXG DSR Message Copy Per 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	Description : This sub-product adds HSS Topology Hiding to the Oracle Communications Diameter Signaling Router.
	Per Node	Restrictions : This product SKU is for legacy customer applications only.
	EXG DSR MME Topology Hiding	Description : This sub-product adds MME Topology Hiding to the Oracle Communications Diameter Signaling Router.
	Per Node	Restrictions : This product SKU is for legacy customer applications only.
	EXG DSR Path Topology Hiding	Description : This sub-product adds Path Topology Hiding to the Oracle Communications Diameter Signaling Router.
	Per Node	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 Copy Per 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 Copy Per 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.

Product	Subproduct	Licensing Information
	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.
	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 III Per 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 I Per	Description : This sub-product adds roaming proxy features to the Oracle Communications Diameter Signaling Router. The following features are added to this sub-product:
	Server	MME Topology Hiding
		HSS Topology Hiding
		Path Topology Hiding
		Restrictions : This product SKU is for legacy customer applications only.

Product	Subproduct	Licensing Information
	DSR RMS Roaming Proxy Topology Hiding I	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:
	Per Server	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.
	DSR Charging Concurrent Sessions Per	Description : Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for Online Charging Proxy (OCS).
	Network	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. Third-Party Notices and/or Licenses

6.1 Commercial Software

Commercial software products or components distributed in Oracle Communications Diameter Signaling Router are identified in the following table along with the applicable licensing information.

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

6.2 Open Source or Other Separately Licensed Software

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

Provider	Component(s)	Licensing Information
Derick Rethans	php-pecl-xdebug- 2.2.7	The Xdebug License, version 1.01
		Based on "The PHP License," version 3.0
		Copyright © 2003-2012 Derick Rethans, All rights reserved.
		Redistribution and use in source and binary forms, with or without modification, is permitted provided that the following conditions are met:
		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.
		3. The name "Xdebug" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact derick@xdebug.org.
		4. Products derived from this software may not be called "Xdebug", nor may "Xdebug" appear in their name, without prior written permission from derick@xdebug.org.
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		6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes Xdebug,

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		This software consists of voluntary contributions made by some individuals on behalf of Derick Rethans.
		Derick Rethans can be contacted via e-mail at derick@xdebug.org.
		For more information Xdebug, please see http://xdebug.org .
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		The re2 v 20130115-2 software and sample code developed by The Dojo foundation is licensed under the Free BSD Project (Style).
		This software consists of voluntary contributions made by many individuals on behalf of The FreeBSD Project. For more information on the FreeBSD Project, please see http://www.freebsd.org/
QOS.ch	SLF4J-1.7.25	Licensed under The MIT License (MIT) and you may not use this file except in compliance with the License.
		The MIT License (MIT)- See APPENDIX J
		This software and sample code developed by QOS.ch and licensed under The MIT License (MIT).
		For more information on The MIT License (MIT), please see https://opensource.org/licenses/MIT

Provider	Component(s)	Licensing Information
Douglas C. Schmidt	ACE-6.3.3	The ADAPTIVE Communication Environment (ACE) is a freely available, open-source object-oriented (OO) framework that implements many core patterns for concurrent communication software.
		ACE is copyrighted by Douglas C. Schmidt and his research group at Washington University, University of California, Irvine, and Vanderbilt University, Copyright (c) 1993-2015, all rights reserved.
		For more information on ACE Copyright refer to Appendix M: ACE- 6.3.3 License.
Google Inc.	Google-GWT- 2.7.0	Licensed under The FreeBSD Project and you may not use this file except in compliance with the License.
	SmartGWT-6.0p	The FreeBSD Project- See APPENDIX I
		Copyright © 1995-2017 The FreeBSD Project
		This software and sample code developed by The FreeBSD Project licensed under The Free BSD Project
		This software consists of voluntary contributions made by many individuals on behalf of The FreeBSD Project. For more information on the The FreeBSD Project, please see http://www.freebsd.org/
Chris Leonello	Jqplot-1.0.8	The jqPlot software is an open source project dual licensed under and under GNU General Public License, version 2 (GPL-2.0) and under The MIT License (MIT). You are free to choose the license that best suits your project. Oracle Communications Diameter Signaling Router has elected to use jQuery Javascript under GNU General Public License, version 2 (GPL-2.0).
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		This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version
		(GPL-2.0)- See APPENDIX A
		The Jqplot-1.0.8 sample code developed by Chris Leonello is licensed under the General Public License 2.0.
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		Licensed under The MIT License (MIT) and you may not use this file except in compliance with the License.
		The MIT License (MIT)- See APPENDIX J
		This software and sample code developed by Dmitry Baranovskiy and licensed under The MIT License (MIT).
		For more information on The MIT License (MIT), please see https://opensource.org/licenses/MIT

Provider	Component(s)	Licensing Information
iReasoning	iReasoning SNMP Libraries-7.0.1	Licensed under iReasoning Networks and you may not use this file except in compliance with the License.
		iReasoning Networks- See APPENDIX L
		Copyright © 2002-2016 51
		iDeskCentric Inc. All rights reserved. All brands, logos, and trademarks are the properties of their respective holders.
		For more information on the iReasoning Networks, please see
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

- b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) operates properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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