

Diameter Signaling Router

Related Publications

Release 8.2

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DSR Publications

The publications listed in this document are included in the Oracle Communications DSR documentation set.

Oracle Communications Diameter Signaling Router Documentation Set

The Diameter Signaling Router (DSR) documentation set includes the following publications, which provide information for the configuration and use of **DSR** and related Applications.

Some documents, such as *Release Notes*, are available only through the Oracle Technical Network (OTN).

The current releases of all documents are available through the **Oracle Technical Network**.

Release Notice describes new features in the release; lists the known and fixed bugs, and the software lineup; and explains how to find customer documentation on the Oracle Technology Network (OTN).

Operation, Administration, and Maintenance (OAM) User's Guide provides information on system-level configuration and administration tasks for the advanced functions of the DSR, both for initial setup and maintenance.

Diameter User's Guide explains how to use the Diameter GUI pages to manage the configuration and maintenance of Diameter Configuration components, including Local and Peer Nodes, Peer Node Groups, Connections, Configuration Sets, Peer Routing Rules, Application Route Tables, System Options, **DNS** options, AVP dictionary functions, Egress Throttling, and Shared Traffic Throttling Groups. It also introduces IDIH, RADIUS, and Diameter Mediation; addresses Topology Hiding; describes the functions of Diameter Message Copy; and describes DSR capacity and congestion controls.

Diameter Common User's Guide explains how to use the Diameter Common GUI pages to configure components that are common to more than one DSR Application, including Dashboard, Network Identifiers (**MCC** Ranges and MCCMNC), MPs (Profiles and Profile Assignments). The Guide also describes the use of the Bulk Import and Export functions for exporting Diameter, **IPFE**, and DSR Application configuration data on demand and at scheduled intervals, and for importing configuration data from exported files.

As of DSR 7.2, the Charging Proxy Application (CPA) has reached its end of service life. The product has no replacement.

Communication Agent User's Guide explains how to use the Communication Agent GUI pages to configure Remote Servers, Connection Groups, and Routed Servers, and to maintain configured connections.

Diameter Mediation User's Guide describes the functions of Diameter Mediation, and explains how to use the Diameter Mediation GUI pages (nested inside the Diameter

GUI folder) to configure and test Rule Templates, how to use the Formatting Value Wizard, and how to configure Rule Sets.

Full-Address Based Resolution (FABR) User's Guide explains how to use the **FABR** GUI pages to configure FABR to resolve designated Diameter server addresses based on Diameter Application ID, Command Code, Routing Entity Type, and Routing Entity addresses.

Gateway Location Application (GLA) User's Guide describes the functions of retrieving subscriber data stored in Policy Session Binding Repository (**pSBR**) provided by **Policy DRA** and explains how to use the GUI pages to configure **GLA**.

IP Front End (IPFE) User's Guide explains how to use the IPFE GUI pages to configure IPFE to distribute IPv4 and IPv6 connections from multiple clients to multiple nodes.

MAP-Diameter IWF User's Guide describes the configuration and operation of the MAP-to-Diameter Interworking Function (MD-IWF) and Diameter-to-MAP Interworking Function (DM-IWF) DSR Applications.

Policy and Charging Application User's Guide describes the configuration and maintenance functions of the Policy and Charging Application (**PCA**), including Policy Diameter Routing Agent (Policy DRA) and Online Charging DRA (**OCDRA**) DSR Application. and explains how to use the GUI pages to configure PCA.

SBR User's Guide describes the configuration and maintenance functions of the SBR, including SBR database management, reconfiguration, resizing, and migration.

RADIUS User's Guide describes the features associated with **RADIUS** (Remote Authentication Dial In User Service).

Range-Based Address Resolution (RBAR) User's Guide explains how to use the RBAR GUI pages to configure **RBAR** to route Diameter end-to-end transactions based on Diameter Application ID, Command Code, Routing Entity Type, and Routing Entity address ranges and individual addresses.

SS7/Sigtran User's Guide describes explains how to use the SS7/Sigtran GUI pages to perform configuration and maintenance tasks related to Adjacent Servers, SS7 Signaling Points, Link Sets, Associations, Routes, and SS7 Sigtran Options, for the Signaling Network Interface (SRI) used by the MD-IWF SS7 Application. The Signaling Network Interface provides standard SCCP functions, traditional MTP3 routing capabilities, and a standard M3UA interface to the external network.

Transport Manager User's Guide explains how to use the Transport Manager GUI pages to configure "Transports" (SCTP Associations with remote hosts over an underlying IP network). Transport Manager provides the interface to the Adapter Layer and manages the connections and data transmission from **SCTP** sockets.

Diameter Custom Applications (DCA) Feature Activation Guide explains how to enable and disable the DCA Framework and applications. The DCA framework is a set of APIs and services that allows for the creation of applications on top of the Diameter Signaling Router (DSR).

Steering of Roaming (SoR) User's Guide explains how to use the **SoR** application on the DCA Framework. The SoR application allows home network operators to control and distribute the registration traffic of their outbound roamers.

DSR Alarms and KPIs Reference provides detailed descriptions of alarms, events, and Key Performance Indicators (KPIs); indicates actions to take to resolve an alarm, or event; and explains how to generate reports containing current alarm, event, and **KPI** information.

DSR Measurements Reference provides detailed descriptions of measurements, indicates actions to take to resolve unusual Diameter measurement value, and explains how to generate reports containing current measurement information.

Machine to Machine Interface API describes the Machine to Machine Interface (MMI) for DSR. The DSR MMI is a RESTful (Representational State Transfer) interface providing access to a broad range of Operations, Administration, and Maintenance (OAM) services that clients use to configure and manage the DSR. This document is the comprehensive API reference guide to the RESTful services the DSR makes available to clients through the DSR MMI. To access the MMI API documentation through a direct URL access, without login, go to [http://\(IP address of NOAM or SOAM\)/raml/mmi.html](http://(IP address of NOAM or SOAM)/raml/mmi.html). Or the MMI API documentation can be accessed directly from the DSR GUI by clicking on the new MMI API Guide menu item.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) site, <http://docs.oracle.com>. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at <http://www.adobe.com>.

1. Access the Oracle Help Center site at <http://docs.oracle.com>.
2. Click **Industries**.
3. Under the Oracle Communications subheading, click the **Oracle Communications** documentation link.

The Communications Documentation page appears. Most products covered by these documentation sets will appear under the headings "Network Session Delivery and Control Infrastructure" or "Platforms."

4. Click on your Product and then the Release Number.

A list of the entire documentation set for the selected product and release appears.

5. To download a file to your location, right-click the **PDF** link, select **Save target as** (or similar command based on your browser), and save to a local folder.

Oracle Communications IDIH Documentation Set

The IDIH documentation set includes the following publications, which provide information for the configuration and use of **IDIH** and related applications.

The current releases of all documents are available on the **Oracle Technical Network**.

IDIH User's Guide describes the configuration and use of Integrated Diameter Intelligence Hub (**IDIH**).

IDIH Audit Viewer Administrator's Guide provides information about the Audit Viewer application, including its functionalities to efficiently and effectively monitor applications, user's activities, and alarm status.

IDIH Alarm Forwarding Administrator's Guide provides information about the Alarm Forwarding application, including definitions and instructions to help the user efficiently and effectively define conditions and destinations for forwarding alarms.

IDIH Operations, Administration, and Maintenance Administrator's Guide provides information about the OAM application, including its functionality to configure IDIH

mediation for processing and storing TDR records. It also provides configuration functionality for viewing TDR records in the ProTrace application.

The *IDIH ProTrace User's Guide* describes the ProTrace application, including its functionality to monitor traces.

IDIH System Alarms User's Guide provides information about the System Alarms application, including its functionality to efficiently and effectively monitor alarm status.

IDIH Log Viewer User's Guide explains the Log Viewer application, including its functionalities to efficiently and effectively monitor applications, user's activities, and alarm status.

Oracle Communications Subscriber Database Server Documentation Set

The Subscriber Database Server (SDS) documentation set includes the following publications, which provide information for the configuration and use of **SDS** and related applications.

Some documents, such as the *Provisioning Interface Guide*, are available only on the Oracle Technical Network (**OTN**).

The current releases of all documents are available on the **Oracle Technical Network**.

Getting Started Guide provides an overview of the **SDS** documentation, application, system architecture, and functionality including user interface elements, main menu options, supported browsers, and common user interface widgets.

The *User's Guide* provides screen-by-screen documentation to describe each SDS menu option.

Operations, Administration, and Maintenance (OAM) User's Guide describes how to view and manage the basic operation, administration, and maintenance for SDS.

Communication Agent User's Guide describes the plug-in included with SDS that includes infrastructure features and services for enabling inter-server communication including the High-Availability (**HA**) services sub-resources.

SDS Alarms, KPIs, and Measurements (AKMs) Reference provide information relevant to understanding alarms and events that may occur in the SDS application; recovery procedures for addressing alarms and events, as necessary; tasks for viewing alarms and events, generating alarms reports, and viewing and exporting alarms and events history; and information, including any relevant customer actions for addressing unusual measurement values.

Provisioning Interface describes the provisioning **XML** and **SOAP** interfaces local and remote provisioning client applications use to administer the Oracle Communications User Data Repository (**UDR**) system provisioning database.