

Oracle® Communications Charging Traffic Monitor

Release Notes

Release 12.1

E80473-01

March 2017

Oracle Communications Charging Traffic Monitor Release Notes, Release 12.1

E80473-01

Copyright © 2017, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface	v
Audience	v
Documentation Accessibility	v
Downloading Oracle Communications Documentation	v
Related Documents	v
Document Revision History	v
1 Release Notes	
About Charging Traffic Monitor	1-1
Features	1-1
Gy and Ro Interface Traffic Monitoring	1-1
Monitors and Troubleshoots with Built-In Key Performance Indicators	1-2
Monitors and Troubleshoots Specific Diameter Sessions and Subscribers	1-2
Diameter Standard Compliant	1-2

Preface

This document includes information about this release of Oracle Communications Charging Traffic Monitor.

Audience

This document is intended for all Charging Traffic Monitor users.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Downloading Oracle Communications Documentation

The Charging Traffic Monitor documentation and additional Oracle documentation is available from the Oracle Help Center website:

- <http://docs.oracle.com>

Related Documents

For more information, see the following documents in the Charging Traffic Monitor documentation set:

- *Oracle Communications Charging Traffic Monitor Installation and System Administration Guide*
- *Oracle Communications Charging Traffic Monitor Security Guide*
- *Oracle Communications Charging Traffic Monitor User's Guide*

Document Revision History

The following table lists the revision history for this document:

Version	Date	Description
E80473-01	March 2017	Initial release.

Release Notes

This document provides release notes for Oracle Communications Charging Traffic Monitor release 12.1.

About Charging Traffic Monitor

Charging Traffic Monitor monitors and troubleshoots online charging systems (OCS), such as Oracle Communications Billing and Revenue Management Elastic Charging Engine (ECE). Charging Traffic Monitor captures the traffic between the network elements and an OCS. The messages are decoded and correlated in near real-time to generate reports, key performance indicators (KPIs), and troubleshooting information.

Features

Charging Traffic Monitor 12.1 provides the following features:

- [Gy and Ro Interface Traffic Monitoring](#)
- [Monitors and Troubleshoots with Built-In Key Performance Indicators](#)
- [Monitors and Troubleshoots Specific Diameter Sessions and Subscribers](#)
- [Diameter Standard Compliant](#)

Gy and Ro Interface Traffic Monitoring

Charging Traffic Monitor specifically monitors the Gy and Ro interfaces between the OCS and the Policy and Charging Enforcement Function (PCEF), as defined by the 3rd Generation Partnership Project (3GPP) standard. This interface allows online credit control for service data flow based charging. Charging Traffic Monitor is designed to monitor the Diameter traffic of ECE.

When connected to the network on the Gy or Ro interfaces, Charging Traffic Monitor acquires Diameter traffic through either a Network switch with port mirroring or a Network TAP. The captured Diameter traffic is filtered and correlated by the vCollector probe before being analyzed by the Charging Traffic Monitor processing engine, which builds and stores the KPIs, sessions of interest information, and transactions in Oracle Database.

Finally, the Charging Traffic Monitor application pulls the KPIs and sessions of interest results as required and displays them in the Charging Traffic Monitor user interface.

Monitors and Troubleshoots with Built-In Key Performance Indicators

Charging Traffic Monitor provides the following KPIs for monitoring and troubleshooting your Diameter messages:

- Concurrent Sessions
- Latency
- Session Duration
- Transaction Result Code
- Transaction Volume

The following filters enable further analysis:

- Diameter Front End (origin of a Diameter request message)
- Network Location
- Operation Type
- Service Type

Monitors and Troubleshoots Specific Diameter Sessions and Subscribers

You can identify Diameter sessions and subscribers that are important for further analysis with the Charging Traffic Monitor **Of Interest** feature. This feature enables you to monitor and troubleshoot specific Diameter sessions and subscribers that could have potential issues and are out of the scope of the criteria provided by Charging Traffic Monitor (sessions that are too long or sessions that have too many transactions), or are of special interest.

The **Of Interest** sessions are displayed in a data mining tool in the Charging Traffic Monitor user interface. Users can monitor specific data with filters, which can then be displayed in a ladder diagram with full transaction decoding.

Diameter Standard Compliant

Charging Traffic Monitor is fully compliant with the RFC and 3GPP standards listed in [Table 1-1](#).

Table 1-1 RFC and 3GPP Standards

Standard	Description
RFC 4006	Diameter Credit-Control Application.
RFC 6733	Diameter Base Protocol.
RFC 793	Transmission Control Protocol.
RFC 4960	Stream Control Transmission Protocol.
Gy interface	Prepaid charging defined in TS 23.203, TS 32.299.
Ro interface	Charging defined in TS 32.299.