

# Oracle® Communications Session Delivery Manager Release Notes



Release 8.1  
December 2019

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

Oracle Communications Session Delivery Manager Release Notes, Release 8.1

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# About This Guide

This document and other product-related documents are described in the Related Documentation table.

## Related Documentation

**Table 1 Oracle Communications Session Delivery Manager Documentation Library**

Document Name	Document Description
Administration Guide	<p>Provides the following administration information:</p> <ul style="list-style-type: none"><li>• Implement OCSDM on your network as a standalone server or high availability (HA) server.</li><li>• Login to the OCSDM application, access GUI menus including help, customize the OCSDM application, and change your password.</li><li>• Access the product plugin service through the GUI to manage product plugin tasks, including how product plugins are uploaded and installed.</li><li>• Manage security, faults, and transport layer security certificates for east-west peer OCSDM server communication, and southbound communication with network function (NF) devices.</li><li>• Configure northbound interface (destination) fault trap receivers and configure the heartbeat trap for northbound systems.</li><li>• Monitor OCSDM server health to detect heartbeat messages and display the server status to prevent health problems, or view server disk utilization information and server directory statistics.</li><li>• Maintain OCSDM server operations, which includes database backup and database restoration and performing server cluster operations.</li><li>• Use available OCSDM server scripts, the contents of fault trap notifications, and a list of northbound notification traps generated by the OCSDM server.</li></ul>
Installation Guide	<p>Provides the following installation information:</p> <ul style="list-style-type: none"><li>• Do pre-installation tasks, which include reviewing system requirements, adjusting linux and firewall settings, completing OCSDM server settings and configuring your NNCentral account for security reasons.</li><li>• Do the typical installation to perform the minimal configuration required to run the OCSDM server.</li><li>• Do the custom installation to perform more advanced configurations including the mail server, cluster management, Route Manager, transport layer security (TLS), and Oracle database configuration.</li></ul>
Release Notes	<p>Contains information about the administration and software configuration of the OCSDM feature support new to this release.</p>

**Table 1 (Cont.) Oracle Communications Session Delivery Manager Documentation Library**

Document Name	Document Description
Security Guide	<p>Provides the following security guidelines:</p> <ul style="list-style-type: none"> <li>• Use guidelines to perform a secure installation of OCSDM on your server, which includes methods for securing the server, firewall settings, system support for encryption and random number generators (RNG), using HTTPS, and password guidelines.</li> <li>• Review Security Manager features that are used to configure groups, users, operations, privileges, and manage access to the system.</li> <li>• Follow a checklist to securely deploy OCSDM on your network and maintain security updates.</li> </ul>
REST API Guide	<p>Provides information for the supported REST APIs and how to use the REST API interface. The REST API interface allows a northbound client application, such as a network service orchestrator (NSO), to interact with OCSDM and its supported product plugins.</p>
SOAP API Guide	<p>The SOAP API guide provides information for the SOAP and XML provisioning Application Programming Interface (API) client and server programming model that enables users to write client applications that automate the provisioning of devices. The web service consists of operations that can be performed on devices managed by the SDM server and data structures that are used as input and output parameters for these operations.</p>

## Revision History

Date	Description
July 2018	<ul style="list-style-type: none"> <li>• Initial release</li> </ul>
September 2018	<ul style="list-style-type: none"> <li>• An entry for customer defect 28557993 was added to the Known Issues section.</li> </ul>

Date	Description
October 2018	<ul style="list-style-type: none"> <li>• With the introduction of Oracle Communications Session Delivery Manager (OCSDM) Release 8.1.1, a Fraud Detection and Prevention (FDP) device is now supported by OCSDM and the Enterprise Edge &amp; Core Release 2.1 Plug-in and the Enterprise Utilities Release 2.1 Plug-in.</li> <li>• Updates the list of supported Operating Systems to include Oracle Linux 6.9.</li> <li>• Renames the "REST examples in documentation" feature in "Release 8.1 Features" to "REST API" and includes information on SOAP API support.</li> <li>• Consolidates the "SEM Features Delivered by the Enterprise Edge and Core plugin Release 2.0" and "SEM Features Delivered by the Enterprise Edge and Core plugin Release 2.1" sections.</li> <li>• Updates the description of the <i>SOAP API Guide</i> in "Related Documentation" to remove statement about SOAP deprecation. This update has been made globally across the Oracle Communications Session Delivery Manager, Oracle Communications Session Element Manager, Oracle Communications Route Manager, and Oracle Communications Report Manager documentation sets.</li> <li>• Adds a note to "Session Element Manager Features Delivered by the Service Provider Edge and Core Plug-in Release 2.0" containing conceptual information regarding OCSDM's use of Network Functions (NFs).</li> </ul>
December 2018	<ul style="list-style-type: none"> <li>• Updates "New Session Element Manager Plug-in Device Software Support" in conjunction with the OCSBC 8.2 release.</li> </ul>
May 2019	<ul style="list-style-type: none"> <li>• Updates "New Session Element Manager Plug-in Device Software Support" to remove ECz8.1M1 from the list of supported devices in Enterprise Edge and Core 2.1.</li> </ul>
December 2019	<ul style="list-style-type: none"> <li>• Adds Caveat regarding upgrading under the Enterprise Edge &amp; Core category.</li> </ul>

# 1

## Overview

Oracle Communications Session Delivery Manager is a network element management system that can be accessed through a graphical user interface (GUI), REST API interface, or SOAP API interface.

Read and understand all sections in the Oracle Communications Session Delivery Manager Release Notes before installing, upgrading or using this product.

## Session Delivery Manager Application Overview

Once Oracle Communications Session Delivery Manager is installed, you can access the following features through their respective sliders:

- **Device Manager**—Use this slider to configure device groups. The functionality of this slider is dependant on the product plug-in(s) that you have installed.
- **Security Manager**—Use this slider to configure any security privileges that are specific to OCSDM and the product plugin.
- **Fault Manager**—View events, alarms, and trap summary data.

### Note:

Upon installation of one of these plugins, the OCSDM displays only the applicable sliders and their relevant configuration elements to enable.

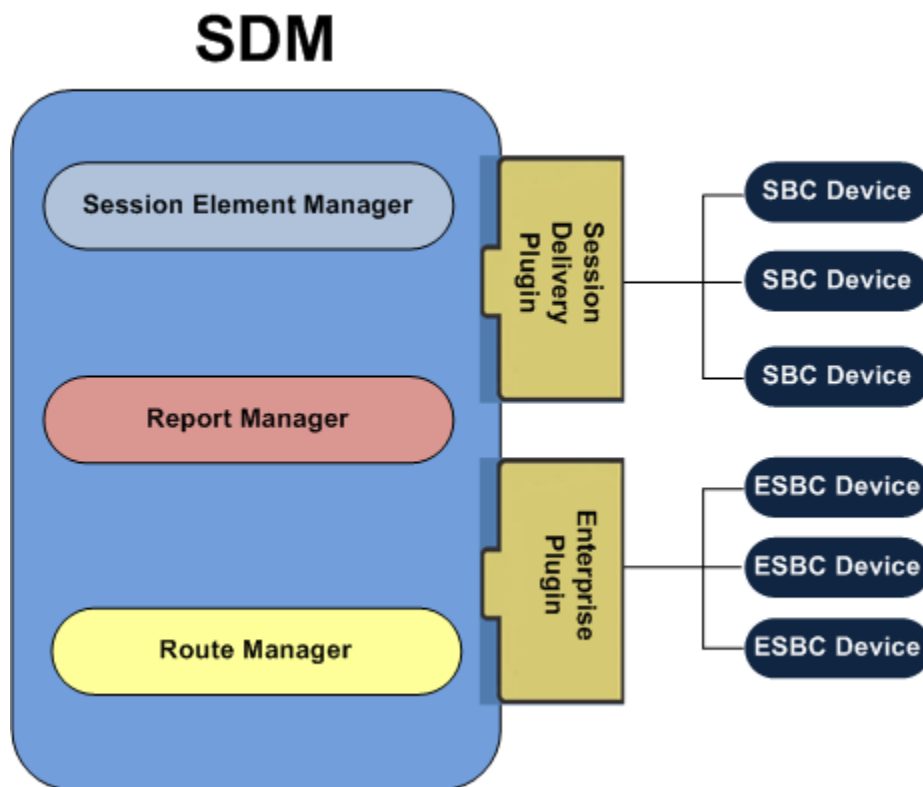
## Session Delivery Manager Product Plug-in Service

A product plugin is used to activate Oracle Communications Session Delivery Manager to provide fault, configuration, accounting, performance, and security (FCAPS) for devices, and control communications with network elements over secure protocols.

OCSDM has limited functionality until a plugin is uploaded and installed in OCSDM. Product functionality activated by the plugin in the OCSDM GUI is specific to what the plugin supports. For example, if you see a drop-down menu, field or checkbox that cannot be accessed, the plugin does not support this functionality in the GUI.

Use the plugin service in Oracle Communications Session Delivery Manager to install the product plugin. More than one product plugin can be installed on OCSDM at the same time, and the functionality of the plugin(s) is propagated to other OCSDM nodes in a clustered environment. The following example shows how the Service Prover and Enterprise product plugins provide their respective devices access to Session Element Manager, Report Manager and Route Manager.





## Session Element Manager Plug-in Support Matrix

Use the following tables to determine Oracle Communications Session Element Manager (OCSEM) plug-in name changes, Oracle Communications Session Delivery Manager (SDM) release compatibility, OCSEM plug-in platform support, plug-in product device compatibility, and the product device software plug-in support that was introduced in OCSDM release 8.x.

### Oracle Communications Session Element Manager Plug-in Name Changes

Release 1.0 OCSEM Plug-in Name	Release 2.0 OCSEM Plug-in (Name Change)
AcmeSD	SP Edge and Core
Enterprise	Enterprise Edge and Core
EnterpriseExt	Enterprise Utilities

### Oracle Communications Session Delivery Manager and Oracle Communications Session Element Manager Plug-in Release Compatibility

OCSDM Release	OCSEM Plug-in Name	OCSEM Plug-in Release
8.0	<ul style="list-style-type: none"> <li>• AcmeSD</li> <li>• Enterprise</li> <li>• EnterpriseExt</li> </ul>	1.0

OCSDM Release	OCSEM Plug-in Name	OCSEM Plug-in Release
8.1	<ul style="list-style-type: none"> <li>• SP Edge and Core</li> <li>• Enterprise Edge and Core</li> <li>• Enterprise Utilities</li> </ul>	2.0
8.1.1	<ul style="list-style-type: none"> <li>• SP Edge and Core</li> <li>• Enterprise Edge and Core</li> <li>• Enterprise Utilities</li> </ul>	2.1

 **Note:**

All plugins inherit the support of the previous release.

**Device Platform Support For Oracle Communications Session Element Manager Plug-ins**

The following table describes each device platform and what OCSEM plug-ins support this platform.

Device Platform	SP Edge and Core	Enterprise Edge and Core	Enterprise Utilities
Acme Packet 1100	No	Yes	No
Acme Packet 3800	Yes	No	No
Acme Packet 3810	Yes	No	No
Acme Packet 3820	Yes	No	No
Acme Packet 3900	No	Yes	No
Acme Packet 4250	Yes	No	No
Acme Packet 4500	Yes	Yes	No
Acme Packet 4600	Yes	Yes	No
Acme Packet 6100	Yes	Yes	No
Acme Packet 6300	Yes	Yes	No
Acme Packet 6350	Yes	No	No
Acme Packet 9200	Yes	No	No
	The Acme Packet 9200 is not supported by Oracle Communications Report Manager.		
Acme Packet Session Director - Server Edition	Yes	No	No
Acme Packet Session Director - Virtual Machine Edition	Yes	No	No
Acme Packet Enterprise Session Director - Server Edition	No	Yes	No
Acme Packet Enterprise Session Director - Virtual Machine Edition	No	Yes	No

Device Platform	SP Edge and Core	Enterprise Edge and Core	Enterprise Utilities
Oracle Enterprise Interactive Session Recorder (ISR)	No	No	Yes
Oracle Enterprise Operations Monitor (EOM)	No	No	Yes

### Oracle Communications Session Element Manager Plug-in Product Device Compatibility

The following table describes the products that each OCSEM plug-in supports.

OCSEM Plug-ins	Product Support
AcmeSD and SP Edge and Core	<ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller (OCSBC)</li> <li>Oracle Communications Subscriber-Aware Load Balancer (OCSLB)</li> <li>Oracle Communications Mobile Security Gateway (MSG)</li> <li>Oracle Communications Unified Session Manager (USM)</li> <li>Subscriber-aware Load Balancing and Route Management (SLRM)</li> <li>Oracle Communications Session Router (OCSR)</li> </ul>
Enterprise Edge and Core and Enterprise	Oracle Enterprise Session Border Controller, Oracle Enterprise Communications Broker Release
EnterpriseExt and Enterprise Utilities	EOM and ISR

## New Session Element Manager Plug-in Device Software Support

The following table describes new device software support for the Oracle Communications Session Element Manager plug-in releases which have occurred since the introduction of OCSDM 8.0.

### Note:

Refer to the [Plug-in Support Matrix](#) section for more information about what plugin is used with the product device releases mentioned below. All plugins inherit the support of the previous release, including the device releases mentioned in the [Historical Session Element Manager Device Software Support](#) section.

OCSEM Plug-in Name	Release Introduced	Devices
AcmeSD	1.0	<ul style="list-style-type: none"> <li>M-Cz4.1.0</li> <li>S-Cz7.3.0M3</li> <li>S-Cz7.3.0M4</li> <li>S-Cz7.3.5M2</li> <li>S-Cz7.4.0M1</li> <li>S-Cz7.4.1</li> <li>S-Cz8.0.0</li> </ul>

OCSEM Plug-in Name	Release Introduced	Devices
SP Edge and Core	2.0	<ul style="list-style-type: none"> <li>SCz7.4.1M1</li> <li>SCz8.1</li> <li>S-Cz8.2.0<sup>1</sup></li> </ul>
Enterprise	1.0	<ul style="list-style-type: none"> <li>E-Cz7.3.0M3</li> <li>E-Cz7.5</li> <li>P-Cz2.2.0</li> </ul>
Enterprise Edge and Core	2.0	<ul style="list-style-type: none"> <li>ECz8.0</li> <li>ECz 8.1</li> </ul>
Enterprise Edge and Core	2.1	<ul style="list-style-type: none"> <li>N/A</li> </ul>
EnterpriseExt	1.0	<ul style="list-style-type: none"> <li>Oracle Communications Interactive Session Recorder (ISR)</li> <li>Oracle Enterprise Operations Monitor (EOM)</li> </ul>
Enterprise Utilities	2.0	<ul style="list-style-type: none"> <li>ISR</li> <li>EOM</li> </ul>
Enterprise Utilities	2.1	<ul style="list-style-type: none"> <li>ISR</li> <li>EOM</li> <li>Oracle Fraud Detection and Prevention (FDP)</li> </ul>

<sup>1</sup> S-Cz8.2.0 is used for both Service Provider and Enterprise SBCs with this plugin running on SDM 8.1.1.

## Historical Session Element Manager Device Software Support

The following tables show the historical device software support for Oracle Communications Session Element Manager for Service Provider and Enterprise device releases prior to Release 8.1.

### Oracle Communications Session Border Controller Releases

**Table 1-1 C/CX Software Support**

Base Software Release	Follow-on Releases
C/CX6.0.0	M5, M6, M7, M8

**Table 1-2 SCX Software Support**

Base Software Release	Follow-on Releases
S-C/S-Cx6.1.0	M2, M3, M4, M5, M6, M7, M8, M9, M10, M11
S-C/S-Cx6.2.0M1	M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12
S-C/S-Cx6.2.1F1	F2, M1, M2
S-Cx6.2.3	-
S-Cx6.2.5F1	-
S-Cx6.3.0	F1, F2, M1, M2, M3, M4, M5

**Table 1-2 (Cont.) SCX Software Support**

Base Software Release	Follow-on Releases
S-Cx6.3.15M1	M2, M3
S-Cx6.3.3	F1, F2, F3, F4, M1, M2, M3
S-Cx6.3.5	F1, M1, p3
S-Cx6.3.6F1	-
S-Cx6.3.7	F1, F2, F3, F4, M1, M2, M3
S-Cx6.3.9	F1, M1, M2, M3, M4, M5
S-Cx6.4.0	F1, M1, M2, M3, M4, M5, M6, M7
S-Cx6.4.6F1	F2, F3, F4, F5

**Table 1-3 SCZ Software Support**

Base Software Release	Follow-on Releases
S-Cz6.3.15	M1, M2, M3
S-Cz6.3.9	M1, M2, M3, M4, M5
S-Cz7.0.2	F1, F2
S-Cz7.0.9	F1
S-Cz7.1.2	M2, M3, M4, M5
S-Cz7.1.5	M1
S-Cz7.2.0	M1, M2, M3, M4, M5, M6
S-Cz7.2.10	-
S-Cz7.2.5	M1, M2, M3, M4
S-Cz7.2.9	-
S-Cz7.3.0	M1, M2, M3, M4
S-Cz7.3.5	M1, M2
S-Cz7.3.9	-
S-Cz7.3.10	-
S-Cz7.4.0	M1
S-Cz7.4.1	-
S-Cz8.0.0	-

**Table 1-4 SD Software Support**

Base Software Release	Follow-on Releases
SD7.0.0	M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12
SD7.1.0	M1, M2, M3, M4, M5, M6
SD7.2.0	F1, M1, M2, M3
SD7.2.3	F2, F3

## Oracle Communications Subscriber-Aware Load Balancer Releases

**Table 1-5 LCX Software Support**

Base Software Release	Follow-on Releases
L-Cx1.0	-
L-Cx1.1.3	F1, F2, F3, M1, M2, M3
L-Cx1.5.0	M1

## Oracle Communications Mobile Security Gateway Releases

**Table 1-6 MCX Software Support**

Base Software Release	Follow-on Releases
M-Cx1.2.0	F2, F3
M-Cx2.0.0	M1
M-Cx3.0.0	F1, M1, M2, p2, M3

**Table 1-7 MCZ Software Support**

Base Software Release	Follow-on Releases
M-Cz4.0.0M1	M2
M-Cz4.1.0	-

## Oracle Enterprise Session Border Controller Releases

**Table 1-8 ECX/Z Software Support**

Base Software Release	Follow-on Releases
E-Cx6.3.7	M1, M2, M3
E-Cx6.4.0	F1, M1, M2, M3, M4, M5
E-Cx6.4.1	M1
E-Cz7.1.0	-
E-Cz7.2.0	-
E-Cz7.3.0	M1, p2, M2 p1, M3
E-Cz7.4.0	p1
E-Cz7.5.0	-

## Oracle Enterprise Communications Broker Release

**Table 1-9 PCX Software Support**

Base Software Release	Follow-on Releases
P-Cx100F1	-
P-Cz2.0.0	M4
P-Cz2.1.0	-

**Table 1-9 (Cont.) PCX Software Support**

Base Software Release	Follow-on Releases
P-Cz2.2.0	-

## External Interfaces

This section describes the supported external API interfaces.

### REST API

As of Release 8.0, the Oracle Communications Session Delivery Manager supports a REST API interface, allowing northbound client applications to interact with OCSDM and its supported product plugins. For information on supported REST APIs and how to use the REST API Interface, see the *REST API for Session Delivery Manager* guide.

### SOAP API

With the introduction of OCSDM, Release 8.0, the SOAP API client is provided for backwards compatibility only. The SOAP API will not support any new APIs for new OCSDM enhancements. Oracle recommends using the REST API for OCSDM if you require access to new OCSDM features via a programmatic API.

## Documentation Distribution

You can access the latest Oracle Communications Session Delivery Manager documents by selecting [Session Delivery Manager](#) from the [Oracle Help Center Communications Documentation](#) web page.

From the main Session Delivery Manager (NNC) Documentation page, you can access links to the following documentation pages for various releases:

- [Oracle Communications Session Delivery Manager page](#)—Access the installation, administration, security, release notes, and access a link to the REST API documentation.
- [Oracle Communications Session Element Manager page](#)—Access the Oracle Communications Session Element Manager user guides customized for each plug-in product, the SOAP API guide, and license documentation.
- [Oracle Communications Report Manager page](#)—Access the Oracle Communications Report Manager user guide, installation guide, and license documentation.
- [Oracle Communications Route Manager page](#)—Access the Oracle Communications Route Manager user guide and license documentation.

# 2

## Session Delivery Manager Installation

Use this chapter to quickly review Oracle Communications Session Delivery Manager system requirements, high-level prerequisites, and the required software distribution media that you must download before you install OCSDM on your system(s).

Refer to the *Oracle Communications Session Delivery Manager Installation Guide* for the following installation information:

- Perform pre-requisite tasks, such as configuring firewall settings, checking Linux support and Linux version dependencies, and ensuring that the SDM\_localhost Entry is configured in the Hosts File.
- Configure your NNCentral account.
- Choose the type of OCSDM installation that you want to do (Typical, Custom, Easy Install, Headless Install).
- Perform a new OCSDM installation or upgrade.
- Perform specific setup instructions for each OCSDM installation type.

### Note:

You must be running OCSDM Release 7.5M3 or 8.0 to upgrade to 8.1. If you are running any release prior to 7.5M3, you must upgrade to 7.5M3 before you can upgrade to 8.1.

## Check System Requirements

Oracle has certified the following hardware and software server platforms as well as client requirements for use with Oracle Communications Session Delivery Manager.

### Note:

Other hardware configurations might work with Oracle Communications Session Delivery Manager, but Oracle has verified the configurations listed here.

### **Oracle Communications Session Delivery Manager Server Requirements**

- CPU: 4-core 2.1 GHz processor or better
- 16 GB RAM minimum, 24 GB RAM recommended
- 300 GB hard drive minimum



## Supported Operating Systems

Oracle supports the following installations of Oracle Communications Session Delivery Manager:

- Oracle Linux 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6 64-bit.

### Note:

OpenSSL 1.0.1e-fips or later must be installed on your Linux server in order to use the HTTPS service on the Apache web server. Most Linux distributions include OpenSSL as part of the OS installation. You can check the version on your system by using the following command:

```
openssl version  
OpenSSL 1.0.1e-fips 11 Jun 2017
```

Oracle supports the following installations of Oracle Communications Session Delivery Manager with Oracle Communications Report Manager:

- Oracle Communications Report Manager for Oracle Fusion Middleware 12c is supported on Oracle Linux (64-bit) 7.0, 7.1, 7.2, or 7.3
- Oracle Communications Report Manager for Oracle Fusion Middleware 11g is supported on Oracle Linux 6.5, 6.6, 6.7, 6.8 only.

## Client Requirements

- Oracle recommends Internet Explorer versions 11.0 and later, Mozilla Firefox versions 43.3.1 and later, or Google Chrome version 56 and later.
- A Flash player compatible with your browser that is installed locally.
- If the server is not part of your DNS domain, the hosts file on each client must be edited to include the host name and IP address of the Oracle Communications Session Delivery Manager server.

## Language Requirements

On the Linux server, ensure that the US English language UTF-8 character encoding method is specified.

# Software Installation Prerequisites

Before you start the installation of Oracle Communications Session Delivery Manager you must check the following prerequisites.

## Check that Work Orders are in a Committed State

If you are upgrading from the previous version of Oracle Communications Session Delivery Manager, you must check the status of scheduled work orders before you upgrade to OCSDM Release 8.x.

All work orders must be in a **Committed** state before you upgrade to OCSDM, Release 8.x because the migration of existing work orders on a server running OCSDM, Release 7.5m3 is

not provided when you upgrade to OCSDM, Release 8.x. See your product plugin documentation for more information about placing your work orders into a **Committed** state.

## Report Manager Installation

If you are installing the Oracle Communications Session Delivery Manager product software for the first time or upgrading from a previous version, complete the instructions in the *Oracle Communications Session Delivery Manager Installation Guide* before installing Oracle Communications Report Manager.

# Session Delivery Manager Software Distribution Media

## Session Delivery Manager Software Distribution Media for Release 8.1.1 GA

The following files are available for Oracle Communications Session Delivery Manager, Release 8.1.1:

File Name	Description
NNC81_1OracleLinux65_64bit.tar.gz	Oracle Linux operating system version 6.5, 64 bit installation file package.
NNC81_1OracleLinux70_64bit.tar.gz	Oracle Linux operating system version 7.0, 64 bit installation file package.
CXFClientNNC81_1.zip	NNC8.1_1 Apache CXF client containing northbound SOAP client libraries and examples for JDK 1.8. See the Oracle Communications Session Element Manager SOAP API Guide for more information.
NNC81_1RESTClient.zip	NNC8.1_1 REST client zip file.
MIBs_NNC81_1.zip	NNC8.1 release MIBs zip file, which contains the latest ap-nnc.mib and ap-ems.mib that provide SNMP support for Oracle Communications Session Delivery Manager. This distribution media supersedes previous versions that were released with your device software.
sp_edge_core2.0_Package.zip	In Release 2.0, the AcmeSD plug-in package ( sd10_Package.zip) name changes to the Service Provider (SP) Edge and Core plug-in ( sp_edge_core2.0_Package.zip). The Session Element Manager application provided in this package supports the following components: <ul style="list-style-type: none"> <li>• Session Border Controller (SBC)</li> <li>• Session Router (SR)</li> <li>• Session Load Balancer (SLB)</li> <li>• Core Session Manager (CSM)</li> <li>• Subscriber-aware Load Balancing and Route Management (SLRM)</li> <li>• Mobile Security Gateway (MSG)</li> </ul>

File Name	Description
ent_edge_core2.0_Package.zip	In Release 2.0, the Enterprise plug-in package (enterprise1.0_Package.zip) name changes to the Enterprise Edge and Core plug-in (ent_edge_core2.0_Package.zip). The Session Element Manager application provided in this package supports the following components: <ul style="list-style-type: none"> <li>Enterprise Session Border Controller (ESBC)</li> <li>Enterprise Communications Broker (ECB)</li> </ul>
ent_utilities2.0_Package.zip	In Release 2.0, the Enterprise-ext plug-in package (enterpriseext1.0_Package.zip) name changes to Enterprise Utilities (ent_utilities2.0_Package.zip). The Session Element Manager application provided in this package supports the following components: <ul style="list-style-type: none"> <li>Enterprise Operations Monitor (EOM)</li> <li>Interactive Session Recorder (ISR)</li> </ul>
sampleProduct2.0_Package.zip	Sample SD Plugin package.

## Session Delivery Manager Software Distribution Media for Release 8.1 GA

The following files are available for Oracle Communications Session Delivery Manager, Release 8.1:

File Name	Description
NNC81OracleLinux65_64bit.tar.gz	Oracle Linux operating system version 6.5, 64 bit installation file package.
NNC81OracleLinux70_64bit.tar.gz	Oracle Linux operating system version 7.0, 64 bit installation file package.
CXFClientNNC81.zip	NNC8.1 Apache CXF client containing northbound SOAP client libraries and examples for JDK 1.8. See the Oracle Communications Session Element Manager SOAP API Guide for more information.
NNC81RESTClient.zip	NNC8.1 REST client zip file.
MIBs_NNC81.zip	NNC8.1 release MIBs zip file, which contains the latest ap-nnc.mib and ap-ems.mib that provide SNMP support for Oracle Communications Session Delivery Manager. This distribution media supersedes previous versions that were released with your device software.

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<b>File Name</b>	<b>Description</b>
sp_edge_core2.0_Package.zip	<p>In Release 2.0, the AcmeSD plug-in package ( sd10_Package.zip) name changes to the Service Provider (SP) Edge and Core plug-in ( sp_edge_core2.0_Package.zip). The Session Element Manager application provided in this package supports the following components:</p> <ul style="list-style-type: none"><li>• Session Border Controller (SBC)</li><li>• Session Router (SR)</li><li>• Session Load Balancer (SLB)</li><li>• Core Session Manager (CSM)</li><li>• Subscriber-aware Load Balancing and Route Management (SLRM)</li><li>• Mobile Security Gateway (MSG)</li></ul>
ent_edge_core2.0_Package.zip	<p>In Release 2.0, the Enterprise plug-in package (enterprise1.0_Package.zip) name changes to the Enterprise Edge and Core plug-in (ent_edge_core2.0_Package.zip). The Session Element Manager application provided in this package supports the following components:</p> <ul style="list-style-type: none"><li>• Enterprise Session Border Controller (ESBC)</li><li>• Enterprise Communications Broker (ECB)</li></ul>
ent_utilities2.0_Package.zip	<p>In Release 2.0, the Enterprise-ext plug-in package ( enterpriseext1.0_Package.zip) name changes to Enterprise Utilities (ent_utilities2.0_Package.zip). The Session Element Manager application provided in this package supports the following components:</p> <ul style="list-style-type: none"><li>• Enterprise Operations Monitor (EOM)</li><li>• Interactive Session Recorder (ISR)</li></ul>

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# 3

## Session Delivery Manager Features

The following sections describe new Oracle Communications Session Delivery Manager features and the Oracle Communications Report Manager and Oracle Communications Route Manager co-product features for Release 8.1.

### Release 8.1 Features

The following table describes the Release 8.1 features for Oracle Communications Session Delivery Manager and Report Manager and Route Manager co-products, and where they are documented.

#### Oracle Communications Session Delivery Manager Features

Feature	Description	Where Documented
Lawful Intercept (LI) Configuration Encryption	User group privileges that are assigned to either the <b>administrators</b> or <b>LIAdministrators</b> user groups inherit most of the same access privileges. However, users assigned to the <b>LIAdministrators</b> user group have full configuration privileges to manage the <b>Configure LI</b> element (Lawful Intercept) in the <b>Device configuration</b> subfolder within the <b>Configuration</b> folder in the <b>Configuration</b> tab. Users assigned to <b>administrators</b> , <b>provisioners</b> and <b>monitors</b> default user groups do not have privileges to configure the <b>Configure LI</b> element.  If LI encryption is enabled on the device, LI configuration values become encrypted on both the devices and OCSDM.	Changes were made to the <i>Apply User Group Privileges for Configuration</i> section in the Security Manager chapter of the <i>Oracle Communications Session Delivery Manager Administration Guide</i> . The LI feature description also appears in the <i>Oracle Communications Session Delivery Manager Security Guide</i> .
Small Footprint and Easy Installation	The Easy-Install option is provided for an OCSDM server installation that has specific, simplified setup options. The Easy-Install option can be used to deploy an OCSDM instance with basic configuration options to run Oracle Communications Session Element Manager and Oracle Communications Route Manager.  The Headless Installation of Oracle Communications Session Delivery Manager is a fast, simplified installation process that runs without the setup application by specifying the user_setup.properties file and running a setup script that points to this file. When you run the setup script, OCSEM is installed on your server.	The <i>Easy Installation</i> and <i>Headless Installation</i> chapters were added to the <i>Oracle Communications Session Delivery Manager Installation Guide</i> .

Feature	Description	Where Documented
ACP Basic Authentication	The ACP Basic Authentication feature provides enhanced security for communication between Oracle Communications Session Element Manager (OCSEM) plug-ins and the devices they manage. In order to take advantage of this feature, you must configure Transport Layer Security (TLS) certificates in OCSDM. OCSEM plug-ins provide management support for devices that use basic remote user access authentication to facilitate Authentication, Authorization, and Accounting (AAA) for ACME Control Protocol (ACP) communication.	There is no new user documentation for this feature. However, refer to the <i>Configure Transport Layer Security Certificates</i> section of the <i>Oracle Communications Session Delivery Manager Installation Guide</i> for more information about configuring TLS entity or trusted Certified Authority (CA) certificates.
REST API	Additional REST API examples are added to the OCSDM REST API for Session Delivery Manager. Also, existing URI titles were improved for clarity and URI descriptions were improved or added where missing. With the introduction of OCSDM, Release 8.0, the SOAP API client is provided for backwards compatibility only. The SOAP API will not support any new APIs for new OCSDM enhancements. <i>Use the REST API for Oracle Communications Session Delivery Manager</i> for access to new OCSDM features via a programmatic API.	Refer to the <i>REST API for Session Delivery Manager Release 8.1</i> for more information.
Coherence replacement of Hazelcast	Oracle Coherence is an in-memory data grid solution that enables OCSDM to predictably scale mission-critical applications by providing fast access to frequently used data.	Refer to the <i>Check Firewall Settings</i> section of the <i>Oracle Communications Session Delivery Manager Installation Guide</i> for Coherence port information.

### Oracle Communications Report Manager Features

Feature	Description	Where Documented
Report Manager Oracle Linux 7.x support	The Oracle BI Publisher 12c software is part of the Oracle Fusion Middleware 12c software. Oracle Communications Report Manager can be installed with the Oracle Fusion Middleware 12c software. The Oracle Fusion Middleware 12c software is required for Oracle BI Publisher server installations on Oracle Linux 7.x systems.	A new <i>Oracle Communications Report Manager Installation Guide for Oracle Fusion Middleware 12c</i> is provided for Oracle BI Publisher server installations on Oracle Linux 7.x systems. The previous <i>Oracle Communications Report Manager Installation Guide</i> changed its name. It is now called the <i>Oracle Communications Report Manager Installation Guide for Oracle Fusion Middleware 11g</i> (this guide supports Oracle BI Publisher server installations on Oracle Linux 6.x systems). Also, various improvements were made to this guide.

### Oracle Communications Route Manager Features

No Oracle Communications Route Manager features were added in this release.

## Release 8.1.1 Features

Fraud Detection and Prevention (FDP) device support was added. Oracle Communications Session Delivery Manager can now receive fraud updates from an FDP device and relay them to southbound devices, such as an ESBC to automatically stop fraudulent activity on the network. You must install both the Enterprise Edge and Core and Enterprise Utilities Release 2.1 plug-ins. See the [Session Element Manager Features Delivered by the Enterprise Edge and Core Plug-in Release 2.1](#) and [Session Element Features Delivered by the Enterprise Utilities Plug-in Release 2.1](#) sections for more information.

# 4

## Session Element Manager Features Delivered by the Service Provider Plug-in

The Service Provider (SP) Edge and Core plug-in (formerly called the AcmeSD plug-in) contains the Oracle Communications Session Element Manager (OCSEM) application, which is used to manage and optimize network infrastructure elements and their functions for the following:

- Oracle Communications Session Border Controller (SBC)
- Oracle Communications Subscriber-Aware Load Balancer (SLB)
- Oracle Communications Mobile Security Gateway (MSG)
- Oracle Communications Unified Session Manager (USM)
- Subscriber-aware Load Balancing and Route Management (SLRM)
- Oracle Communications Session Router (OCSR)
- product devices with comprehensive tools and applications on the OCSDM (OCSDM)

The OCSEM can also provision fault, configuration, accounting, performance, and security (FCAPS) support for managed devices. Upon installation of the plug-in, OCSEM sliders and any Report Manager and Route Manager co-product sliders appear. For information on supported sliders and devices, see *Oracle Communications Session Element Manager User Guide for the Service Provider Edge and Core Product Plug-in*.

 **Note:**

The AcmeSD plug-in name changes to SP Edge and Core in its second version.

## Session Element Manager Features Delivered by the Service Provider Edge and Core Plug-in Release 2.0

The Service Provider (SP) Edge and Core plug-in for Release 2.0 provides the following features and where they are documented:



 **Note:**

As of Oracle Communications Session Delivery Manager Release 8.0, the previous device nodes (used in OCSDM 7.x) that maintained the standalone or HA pair devices were replaced with the concept of a Network Function (NF). NFs are a network architecture concept used to describe entire classes of network node functions into building blocks that may connect, or chain together, to create communication services as defined by the *GS NFV-MAN 001 - ETSI*. In this context, a NF can be composed of one-to-many Edge devices. For example, a SBC-based NF can be composed of two SBC instances running as a HA pair.

Feature	Description	Where Documented
LI Configuration Encryption	An LI administrator user can enter an LI encryption password for the LI configuration when adding or editing a Network Function (NF) with devices, and when editing a global parameter or offline configuration.	Changes were made to the following <i>Oracle® Communications Session Element Manager User Guide for the Service Provider Edge and Core Plug-in</i> sections: <ul style="list-style-type: none"> <li>• Add a Network Function with Devices</li> <li>• Edit a Network Function with Devices</li> <li>• Edit Information for the Global Parameter Configuration</li> <li>• Edit the Offline Configuration</li> </ul>
Renaming of existing OCSEM Plug-ins	In this release, the AcmeSD plug-in is now the SP Edge and Core plug-in.	Refer to the <a href="#">Session Element Manager Plug-in Support Matrix</a> section for more information. Also, the <i>Oracle Service Provider Edge and Core Plug-in Product Category and Network Function Types</i> section was added to <i>Device Manager</i> chapter in the <i>Oracle Communications Session Element Manager User Guide for the Service Provider Edge and Core Plug-in</i> .

# 5

## Session Element Manager Features Delivered by the Enterprise Plug-in

The Enterprise Edge and Core Release 2.0 plug-in (formerly called the Enterprise plug-in) contains the Oracle Communications Session Element Manager application, which is used to manage and optimize network infrastructure elements and their functions for the Oracle Enterprise Session Border Controller (E-SBC) and Oracle Enterprise Communications Broker (ECB) product devices with comprehensive tools and applications on the Oracle Communications Session Delivery Manager (OCSDM) to provision fault, configuration, accounting, performance, and security (FCAPS) support for managed devices.

Once the plug-in is installed, Oracle Communications Session Element Manager sliders appear along with the Report Manager and Route Manager co-product sliders. Refer to the *Oracle Communications Session Element Manager User Guide for the Enterprise Edge and Core Product Plug-in* for more information about supported sliders and device support information.

### Note:

The Enterprise plug-in name changes to Enterprise Edge and Core in its second version.

## Session Element Manager Features Delivered by the Enterprise Edge and Core Plug-in Release 2.0 and 2.1

The following features are described for the Enterprise Edge and Core plug-in for Releases 2.0 and 2.1 and where they are documented.

Feature	Release	Description	Where Documented
Fraud Protection Manager (FPM)	2.0	FPM allows the user to manage Fraud Protection Lists (FPLs). An FPL contains lists of phone numbers to block, allow, redirect, and limit the rate of calls. Rules are configured in Fraud Protection Manager to handle fraudulent traffic and activate fraudulent phone lists by sending a single request to activate them on multiple southbound devices. Once an FPL is applied to an ESBC device, the device is protected against fraudulent calls.	Refer to the new Fraud Protection Manager chapter in the <i>Oracle® Communications Session Element Manager User Guide for the Enterprise Edge and Core Plug-in</i> for more information.

<b>Feature</b>	<b>Release</b>	<b>Description</b>	<b>Where Documented</b>
Renaming of existing OCSEM Plug-ins	2.0	In this release, the Enterprise plug-in is now the Enterprise Edge and Core plug-in.	Refer to the <a href="#">Session Element Manager Plug-in Support Matrix</a> section for more information. Also, the <i>Oracle Service Provider Edge and Core Plug-in Product Category and Network Function Types</i> section was added to <i>Device Manager</i> chapter in the <i>Oracle Communications Session Element Manager User Guide for the Enterprise Edge and Core Plug-in</i> .
Enterprise Edge and Core Plug-in FDP Support	2.1	Support for configuring the Fraud Protection feature was added with the introduction of the Enterprise Edge and Core Plug-in Release 2.1. This support includes the ability to register OCSDM with an FDP device for communication with southbound devices that support the Fraud Protection feature. In order for the Fraud Protection feature to be used, you must also install the Enterprise Utilities plug-in.	See the <i>Oracle Communications Session Element Manager User Guide for Enterprise Edge and Core Plug-in and Oracle Communications Session Element Manager User Guide for Enterprise Utilities</i> for more information.

# 6

## Session Element Manager Features Delivered by the Enterprise Utilities Plug-in

The Enterprise Utilities plug-ins contain the Oracle Communications Session Element Manager, which manages the Oracle Enterprise Interactive Session Recorder (ISR) and Oracle Enterprise Operations Monitor Users (EOM) devices.

Once the plug-in is installed, Oracle Communications Session Element Manager sliders appear along with the Report Manager and Route Manager co-product sliders. Refer to the *Oracle Communications Session Element Manager User Guide for the Enterprise Utilities Product Plug-in* for more information about supported sliders and device support information.

### Note:

The EnterpriseExt plug-in name changes to Enterprise Utilities in its second version.

## Session Element Manager Features Delivered by the Enterprise Utilities Plug-in Release 2.0

The Enterprise Utilities plug-in for Release 2.0 has limited Oracle Communication Session Element Manager (OCSEM) support for the Oracle Communications Interactive Session Recorder (ISR), and the Oracle Enterprise Operations Monitor (EOM).

See the Oracle Communications Session Element Manager User Guide for the Enterprise Utilities Plug-in Release 2.0 documentation for more information about adding ISR devices to Oracle Communications Session Element Manager, and launching the EOM login page from OCSEM to perform operations on the EOM.

### Note:

Fraud Detection and Prevention (FDP) device support is not available for the Enterprise Utilities plug-in. When the plug-in is installed and you try to add a Network Function (NF) for an FDP device, the NF type of **FDP** appears, but is not supported at this time.

## Session Element Manager Features Delivered by the Enterprise Utilities Plug-in Release 2.1

Fraud Detection and Prevention (FDP) device support is available through the Enterprise Utilities plug-in when you add the FDP network function (NF) type for an FDP device in Device Manager. See the *Device Manger* chapter in the *Oracle Communications Session Element Manager User Guide for the Enterprise Utilities Plug-in* for more information.

## 7

# Known Issues

This chapter describes the known issues and caveats and limitations found in Oracle Communications Session Delivery Manager.

The following table provides the defect number, a description of the defect problem and any applicable workaround for a defect problem and what release the defect was found or fixed, and if the defect was closed because it was non-reproducible, or some other state. Refer to the Oracle external database (Bug DB) defect tool for more information about defect states.

**Table 7-1 OCSDM Known Issues**

Defect Number	Description	Found	Fixed
26620683	The Acme Control Protocol (ACP) Transport Layer Security (TLS) feature on a device must be disabled before this device can be added to a device cluster in Device Manager.	8.0	8.1
26268556	In OCSDM release 8.0 and later, the Berkley database and OCSDM plug-in management system encounters problems if any IP address changes are made for each cluster member node after a successful OCSDM cluster deployment. This happens if you shut down the OCSDM cluster and re-run the setup program to change any of the cluster member IP addresses.	8.0	8.1
28035170	If an SBC is upgraded from SCz7.2.0M4 to SCz7.4.0M1p6, OCSDM takes a long time to load and show the new configuration during its first attempt.	7.5	8.1
27970655	OCSDM cannot load a USM 6300 device configuration after OCSDM is upgraded to Release 8.0.	8.0	8.1
27770070	The configuration for a device could not be loaded in OCSDM because there are attribute issues introduced in OCSDM Release 8.0 that affected the operation of some models.	8.0	8.1
27450645	Orphaned commons-collections JAR files need to be removed from production directories.	8.0	8.1
27240846	When two different users associate the same route set to the same device, the device cannot be added to the route set.	7.5	8.1
27235892	If one user logs into OCSDM and is using Route Manager route sets and locks a route set, a different user logged into OCSDM at the same time can add this locked route set to another device in the <b>Device Route Sets</b> tab. Resolution: A confirmation message dialog box appears that asks the user if they want to continue with the operation.	7.5	8.1
27137117	After importing a file for a Route Set, if the user selected all the available columns for display, the browser client would crash and the browser cache would have to be cleared to regain GUI control.	7.5	8.1
26989900	A high-availability (HA) device pair cannot be added to OCSDM if the <b>cli-more</b> element is enabled in the device system-config.	8.0	8.1

**Table 7-1 (Cont.) OCSDM Known Issues**

<b>Defect Number</b>	<b>Description</b>	<b>Found</b>	<b>Fixed</b>
26933744	Only the server where the schema upload was initiated has the new updated XSD schema in its local cache. The other nodes still retain the previous XSD schema in memory. For example, in a three-node cluster setup, if a schema file was uploaded on Member A, SBC provisioning fails on Member B and Member C.	7.5M3	8.1
24588116	The apEnvMonTrapCurrentState trap does not display the card name in SDM fault alarm description field due to SBC defect 25348541, which was fixed in SCZ7.3.0M3 and SCZ7.4.0M1. Workaround: The correct card name displays in SDM if the SBC is using either SCZ7.3.0M3 or SCZ7.4.0M1 versions or later.	7.5M1	8.1
28194322	In OCSDM Release 8.1, the sa-srtp HDR group is not supported.	8.1	TBD
28201485	In OCSDM Release 8.1, the sip-codec-per-realm HDR group is not supported.	8.1	TBD
28136135	In OCSDM Release 8.1, the xcode-session-gen-info HDR group is not supported.	8.1	TBD
26627620	In OCSDM Release 8.1, the subjects HDR group is not supported.	8.0	TBD
25388326	The OCSDM setup application process may fail or the OCSDM server may fail to start if you enter a password for the Report Manager user (OCSREMDW) with \$, #, and & special character(s) in the Custom installation in the OCSDM setup application. Refer to the <i>Create a Report Manager Database Instance on the External Oracle Database</i> section in the <i>Oracle Communications Report Manager Installation Guide</i> for more information. Workaround: The password must be eight characters or more, contain at least one uppercase character, one lowercase character and a number (1-9). You cannot use the \$, #, and & special character(s) in the password. Use only the supported %, period (.), and ! special characters in your password at this time.	8.1	TBD
28180392	Historical Data Recording (HDR) data that is pushed to Oracle Communications Report Manager from devices using SFTP does not work for SCz8.1 and ECx8.1 releases. Refer to the SCz and ECx defect 28163745 for more information.	8.1	TBD
27946885	Currently, both OCSDM and an SBC does not prevent a user from downgrading a device with a login password that is already encrypted by SHA-512 to an SBC version that does not support SHA-512 password encryption. If user takes this action, the device becomes unusable because they are not able to login again. Workaround: Change the password for the following user types if they are encrypted with SHA-512: <b>admin</b> , <b>li-admin</b> , and <b>user</b>	8.1	TBD
27631241	The IPsec element can be configured from the OCSDM GUI even when the entitlement on the SBC is not enabled. However, the result is that a save and activate action (performed in the OCSDM GUI) fails on the device. Workaround: Remove the IPsec element and resubmit it by using the <b>Save &amp; activate configuration</b> parameter in Configuration Manager (refer to the <i>Update a Network Function Device Configuration</i> section in the <i>Oracle Communication Session Element Manager User Guide</i> for more information) or enable the IPsec entitlement on the device if the IPsec entitlement is required.	8.1	TBD

Table 7-1 (Cont.) OCSDM Known Issues

Defect Number	Description	Found	Fixed
27069201	<p>For a device that is running SCz or ECz Release 8.1 (and later), the ACME Control Protocol (ACP) over Transport Layer Security (TLS) feature must be enabled on OCSDM Release 8.1 so that this device can be managed by OCSDM. If you disable the ACP over TLS feature on a device to run ACP only for releases prior to SCz or ECz Release 8.1, OCSDM management operations for this device are compromised.</p> <p>Workaround: Use the following steps to prompt OCSDM to start managing the device again:</p> <ol style="list-style-type: none"> <li>1. Reconfigure ACP/TLS through SSH.</li> <li>2. Reboot the device through SSH to modify its configuration.</li> <li>3. In the OCSDM GUI, remove the Network Function (NF) device from Configuration Manager.</li> <li>4. Remove the NF device from Device Manager.</li> <li>5. Add the NF device in Device Manager.</li> <li>6. Assign the NF device in Configuration Manager.</li> </ol>	8.1	TBD
25918918	<p>When you edit SNMP parameters for a Network Function (NF) with a device(s) in Device Manager to go from SNMPv1 or SNMPv2 to SNMPv3, the NF (with its associated devices) needs to be removed and added again.</p>	8.0	TBD
27601270	<p>The BI Publisher defect 27758948 states that anytime a line graph tries to display a constant value (horizontally across the x-axis) for a report, the report is not rendered in some web browsers.</p> <p>Workaround: Use a different web browser or to enable 3-D mode on the line graph through the Layout Editor.</p>	8.1	TBD
27699848	<p>When Lawful Intercept (LI) is configured on a device using its ACLI, the configuration is stored in on the device. If the device is ever restored using a backup of the device, the LI configuration cannot be accessed through its ACLI. However, when this device is loaded in OCSDM in Configuration Manager, the backed up device configuration appears, including the LI configuration.</p> <p>Workaround: In OCSDM, delete the old LI configuration, and enter the current LI configuration that you want to use.</p>	8.1	TBD
28151272	<p>Fraud Detection and Prevention (FDP) device support is not available.</p>	8.1	8.1.1
25353891	<p>When adding collection groups in Report Manager, you must collect HDR data for all HDR groups by clicking the <b>Yes</b> checkbox in the <b>Add a Collection Group - Step 2</b> dialog box because of SBC defect 25576484. Refer to the <i>Add a Collection Group</i> section in the <i>Configure Report Manager to Run Reports</i> chapter of the <i>Oracle Communications Report Manager User Guide</i> for more information about setting this parameter.</p>	7.5M3	TBD

Table 7-1 (Cont.) OCSDM Known Issues

Defect Number	Description	Found	Fixed
28129255	When you are editing a Fraud Protection List (FPL) entry and enter the realm name into the field for the <b>Realm</b> parameter, this entry is not recorded in the database.  Workaround: You must first click the <b>Realm</b> drop down-list arrow first to select the name of the SIP realm that is configured on the device. The SIP realm is associated with the match value. If the realm for which you are looking does not appear in the drop-down list, you can then type the name of this realm in the field.	8.1	TBD
25382198	Report Manager does not support data gathering or the TscfStats group for SBC devices with ScZ7.40 and ScZ7.4.0p1 releases. This problem was fixed in the ScZ7.4.0p2 release (refer to SBC defect 25341897).	7.5M3	TBD
26417111	HDR failed to load because there was a duplicated column of GPRS Tunneling Protocol (GTP) statistics.	8.0	TBD
N/A	For the Oracle Communications Mobile Security Gateway M-Cz4.1.0 Software Release, a duplicate entry is created in the CSV header (defect 26424107) for the gtp-stats HDR group. Report Manager does not process this HDR group.	8.0	TBD
N/A	If you are using the Internet Explorer web browser for your OCSDM session and you press the Backspace key on your key board while configuring fields or doing other operations in the application, you may be logged out of your OCSDM session and be forced to log back into OCSDM.  Workaround: We suggest that you use another supported vendor web browser, such as Firefox.	8.0	TBD
N/A	Due to SBC defect 24361366, OCSDM does not support an SBC device with an IPv6 management address.	8.0	TBD
28715250	When the OCSDM is processing an update from the FTP server and you attempt to view the FPL, you may receive the error message, "Failed to load page table contents. Error: An attempt was made to reference a node that no longer exists; the node may be a bound variable or part of a query context".  Workaround: Wait a short time and try displaying the list again.	8.1.1	TBD
28707570	While the OCSDM is processing an update from the FTP server, if a user tries to manually add an entry that is part of the update, the entry may be added twice.	8.1.1	TBD
28742032	Once you have successfully assigned and then unassigned an FPL to an FDP, you cannot assign that same FPL again.  Workaround: Copy the current FPL and assign the copied FPL to FDP.	8.1.1	TBD
28817962	To properly configure an FDP registration name, the name cannot contain any blank spaces. If you attempt to register an FDP name that contains spaces, you get the following error: " FDP registration name contains invalid characters. Valid characters are a-z,A-Z,_,0-9,-."	8.1.1	TBD
28396076	The <b>session-agent, local-response-map</b> configuration parameter has the wrong default value, generating warnings when running <b>verify-config</b> .	8.1	8.1.1
28605180	OCSDM is sending trap information to trap receivers with the wrong sysUpTime OID type of gauge32 instead of TimeTick.	8.1	8.1.1



# Caveats and Limitations

The following sections list known or reported issues that are either expected behavior or will not be fixed in future releases:

## Oracle Communications Session Delivery Manager

- When you add or edit the **snmp-user-entry** element through the OCSDM GUI for a device, applying a none or empty password for the **Auth protocol** and **Priv protocol** parameters are not supported.  
**Workaround:** If a none or empty password is required for **Auth protocol** and **Priv protocol** parameters, you must apply these parameters through the device CLI.
- Do not add spaces to the "To Address" of the local routing policy.
- SNMPv3 parameters are not supported when adding a Network Function (NF) through the OCSDM REST API.  
**Workaround:** You can enter SNMPv3 parameters for an NF that you want to add through the OCSDM GUI.
- OCSDM does not support devices with IPv6 management addresses. Refer to defect number 24361366 for more information.
- New R226 security features were introduced in the SCz8.1 and ECz 8.1 releases. If you need to manage devices with these releases (and later) with OCSDM, you must perform the following tasks:
  1. Upgrade to OCSDM 8.1 or later to manage releases which have the R226 security features.
  2. You must enable ACP over TLS on the devices.

Refer to the *Configure Transport Layer Security Certificates* section in the *Oracle Communications Session Delivery Manager Installation Guide* for more information regarding OCSDM support.

- We recommend that the target name of your SBC device does not have an underscore character (`_`). This character may cause information to not appear correctly for an SBC device in OCSDM product applications. Also, the historical data record (HDR) data detection feature does not work on an SBC device if its name has an underscore.
- If the plug-in is replaced or upgraded, any previously uploaded XSD work spaces are removed.  
**Workaround:** If required, reapply the XSD work spaces once the plug-in is installed.
- When a user installs a plug-in on a cluster node that supports new functionality, other users that are logged in may not see this new functionality.  
**Workaround:** The user can use click Refresh in Device manager or log out of their SDM GUI session and then log back in to see the change.
- When you use the OCSDM setup process to create a self-signed certificate for OCSDM northbound WebServer HTTPS communication, a single DNS name can be used only because OCSDM supports one northbound HTTPS interface.
- When you use the OCSDM setup process to create an entity certificate to facilitate mutual authentication for OCSDM southbound (ACP), a single DNS name can be used only because the OCSDM supports one southbound ACP over TLS interface.

- In the **Element Manager Plugins** table (**Tools**, and then **Plugin Management**), you cannot sort the **Status**, **Server**, and **Date Modified** columns in ascending or descending order.
- If you implement an OCSDM cluster, one server only must be started successfully and operational before other servers in the cluster can be started.
- When connecting an SDM to an SBC with the Admin Security ACP feature enabled, you must have the **security**, **admin-security**, **enable-login-banner** configuration parameter set to **disabled**.
- The ability to use an offline configuration to provision network function (NF) device clusters is not available for the Acme Packet 9200 platform.
- When the Fraud Detection and Prevention feature is enabled, you must run the OCSDM as a standalone server only.
- The OCSDM release 8.1 does not allow you to add software starting with "S-Cz", specifically releases S-Cz8.2.0 and newer, under the Enterprise Edge & Core category.  
**Workaround:** Operate your devices in Service Provider mode. From the SBC, select **Session Border Controller** when you execute the **setup product** command on the SBC, and from the OCSDM, select **SP Edge & Core** during setup.

#### Oracle Communications Session Element Manager

- Many components of the Oracle Communications session delivery product device software are licensed by Oracle and some product devices require a license key. Product devices that have applied a license key appear in Device Manager, however device license entitlements do not currently appear in Device Manager.  
**Workaround:** Use the show entitlements command in the device ACLI to gather license entitlement information.
- In the event of an unexpected server shutdown, the incremental save operation may be incorrectly reported as being successful if it is associated with a offline configuration update.
- When entering a single quote in an attribute value, use the backslash symbol "\" to escape.
- A CXF (SOAP) client may have its connection closed by the server for long duration transactions.

#### Oracle Communications Report Manager

- If you are upgrading Oracle Communications Session Report Manager from a previous version, BI Publisher and Oracle database (Listener and Listener 2) need to be running and properly connected when you use the Oracle Communications Session Delivery Manager setup installation process, during which these databases are migrated. See the *Prepare for a Report Manager Upgrade* section in the *Pre-Installation Tasks* chapter of the *Oracle Communications Session Report Manager Installation Guide* for more information.
- By default, the password for the **nncentral** user, OCSREMDW database user, and BI Publisher (for example, DEV\_MDS and DEV\_BIPLATFORM) database users for the Oracle reporting database expires in 6 months. Once the password expires, the nightly backup and restore capability for reporting fails. You must go to the Oracle database to change each user password. Ask your Oracle support for more specific information about performing this task.

 **Note:**

This limitation applies to Report Manager users who have installed an Oracle database on the same server as OCSDM only.

- Report Manager does not support data gathering or the TscfStats group for SBC devices with ScZ7.4.0 and ScZ7.4.0p1 releases. This problem will be fixed in the ScZ7.4.0p2 release.
- With the introduction of OCSDM, Release 8.0, there is a single secure sockets layer (SSL) keystore that includes BI Publisher certificates. Any BI Publisher certificates that were previously imported into the keystore before Release 8.0 are lost.
  - Ensure that the BI Publisher certificate is in the desired directory on the OCSDM server. If the BI Publisher certificate is not on the server you must transfer it to server. See the *Save and Transfer the BI Publisher Certificate to Session Delivery Manager* section in the *Register Oracle BI Publisher* chapter of the *Oracle Communications Report Manager Installation Guide* for more information.
  - Ensure that the BI Publisher Certificate is added to the keystore either through the OCSDM server setup program (setup.sh) or upload it through the OCSDM GUI.

 **Note:**

If you are using the OCSDM server setup program to upload a BI Publisher certificate, you must run the setup program on each OCSDM server cluster node to upload the BI Publisher certificate on each node. If you perform this task through the OCSDM GUI, the BI Publisher certificate is replicated to all OCSDM server cluster nodes.

- \* See the *Configure Southbound Interface Transport Layer Security* section in the *Custom Installation* chapter of the *Oracle Communications Session Delivery Manager Installation Guide* for more information about loading the BI Publisher certificate through the OCSDM server setup program.
- \* See the *Manage Certificates for Southbound Authentication* chapter in the *Oracle Communications Session Delivery Manager Administration Guide* for more information about loading the BI Publisher certificate through the OCSDM GUI.
- In OCSDM, Release 8.0 or earlier, Report Manager is supported on Oracle Linux 6.5, 6.6, 6.7, 6.8 only. Also, Oracle Database 11g Standard Edition One, and Oracle Business Intelligence (BI) Publisher 11g are supported only.
- In OCSDM, Release 8.x, Report Manager does not support device clustering.