Oracle® Communications Session Delivery Manager

Release Notes

Release 8.0

December 2018

ORACLE

Oracle Communications Session Delivery Manager Release Notes, Release 8.0

Contents

About This Guide

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

> **Note:**
>
> With the introduction of the product plugin service and changes in the SDM product, only the Oracle Communications Session Delivery Manager Documentation Library appears in this section of each SDM guide.

Related Documentation

Table 1 Oracle Communications Session Delivery Manager Documentation Library

Document Name	Document Description
Administration Guide	Provides the following administration information: • Implement SDM on your network as a standalone server or high availability (HA) server. • Login to the SDM application, access GUI menus including help, customize the SDM application, and change your password. • Access the product plugin service through the GUI to manage product plugin tasks, including how product plugins are uploaded and installed. • Manage security, faults, and transport layer security certificates for east-west peer SDM server communication, and southbound communication with network function (NF) devices. • Configure northbound interface (destination) fault trap receivers and configure the heartbeat trap for northbound systems. • Monitor SDM 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. • Maintain SDM server operations, which includes database backup and database restoration and performing server cluster operations. • Use available SDM server scripts, the contents of fault trap notifications, and a list of northbound notification traps generated by the SDM server.
Installation Guide	Provides the following installation information: • Do pre-installation tasks, which include reviewing system requirements, adjusting linux and firewall settings, completing SDM server settings and configuring your NNCentral account for security reasons. • Do the typical installation to perform the minimal configuration required to run the SDM server. • 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.

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

Document Name	Document Description
Release Notes	Contains information about the administration and software configuration of the SDM feature support new to this release.
Security Guide	Provides the following security guidelines: • Use guidelines to perform a secure installation of SDM 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. • Review Security Manager features that are used to configure groups, users, operations, privileges, and manage access to the system. • Follow a checklist to securely deploy SDM on your network and maintain security updates.
REST API Guide	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 SDM and its supported product plugins.
SOAP API Guide	The SOAP API guide provides information for the SOAP and XML provisioning Application Programming Interface (API) client and server programing 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.

Revision History

Date	Description
August 2017	Initial release
September 2018	An entry for customer defect 28557993 was added to the Known Issues section.
October 2018	Adds caveat regarding connecting an SDM to an SBC with Admin Security with ACP enabled.
December 2018	• Updates the description of the *SOAP API Guide* 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. • Updates the "Supported Operating Systems" to include Oracle Linux 6.9. • Adds a note to "Product Plug-in Features" containing conceptual information regarding OCSDM's use of Network Functions (NFs).

1

Release Notes for Session Delivery Manager

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

Session Delivery Manager Application 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.

Once SDM is installed, you can access the following sliders:

> **Note:**
>
> Other sliders, such as the Device Manager, Configuration Manager, Performance Manager, and so on, will not be seen until you install a product plug-in.

- **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 Oracle Communications Session Delivery Manager and the Oracle Communications Session Delivery Manager product plugin.
- **Fault Manager**—View events, alarms, and trap summary data.

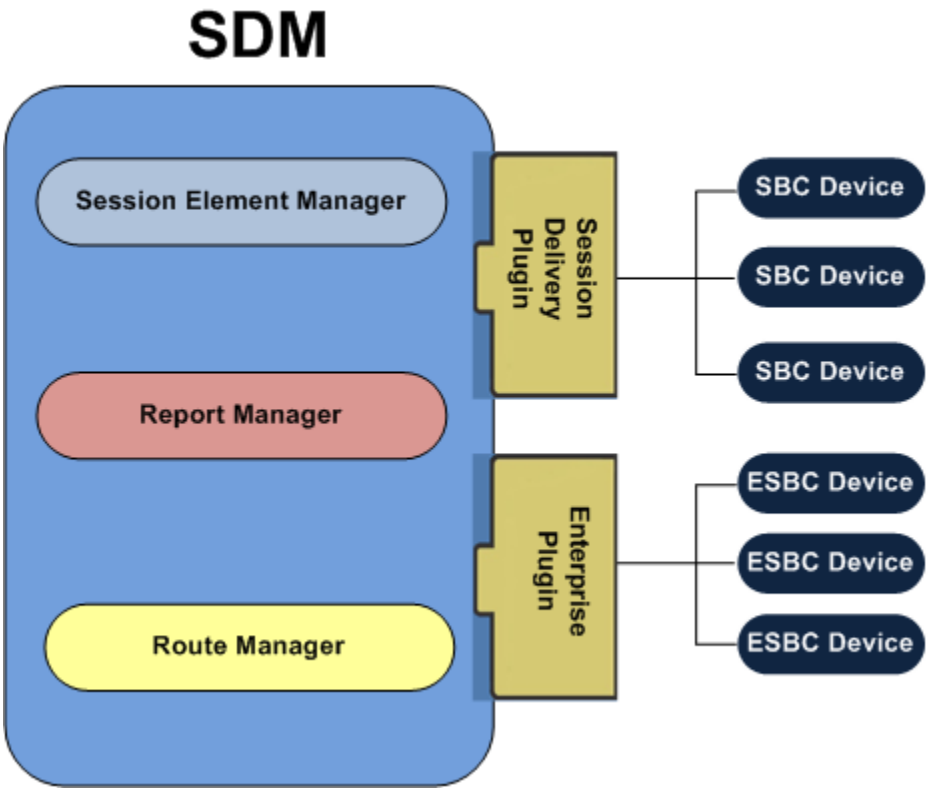
Session Delivery Manager Product Plugin Service

A product plugin is used to activate fault, configuration, accounting, performance, and security (FCAPS) in Oracle Communications Session Delivery Manager. For example, the Session Delivery (SD) product plugin activates Oracle Communications Session Element Manager in SDM for session delivery devices, such as the Oracle Communications Session Border Controller (SBC).

SDM has limited functionality until a plugin is uploaded and installed in SDM. Product functionality activated by the plugin in the SDM 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, which provides different sliders depending on the instructions contained in the product plugin. For example, the **Dashboard Manager**, **Configuration Manager**, **Performance Manager**, **Report Manager**, and **Route Manager** sliders appear once the SD plug-in is installed. See the product plug-in documentation for more information about supported sliders.

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



Session Delivery Plug-in Support

The Session Delivery (SD) Plug-in for Release 1.0 supports Oracle Communications Session Element Manager, Oracle Communications Report Manager, and Oracle Communications Route Manager applications.

Once the SD plug-in is installed, you can access the following Session Element Manager sliders:

- **Dashboard Manager**—The dashboard summary view of at-a-glance status and key performance indicators for your managed devices.
- **Device Manager**—Use this slider to simplify the management of small to large networks of devices.
- **Configuration Manager**—Use this slider to do the following:
  - You can select from the following distinct configuration view styles that display a hierarchical view of infrastructure elements and their physical and logical components (for example, physical interface, virtual interface, realm, signaling service, session agents, and so on).
  - View the local configuration, change the configuration and push these changes to a device.

  - Use the **Global Parameter**, **Offline Configurations**, and **Reusable Modules** folder nodes to make configuring devices easier and manage software for multiple networks.
  - Use the features in the **Configure archive** folder node to perform automated and manual configuration backup for a device and restore configurations to a device from the archive.
- **Performance Manager**—View SNMP, IP, environmental and other performance statistics collected from product devices.
- **Report Manager**—Schedule and run dynamic reports on NF device group(s) in your network.
- **Route Manager**—Update local route table (LRT) data on NF device group(s). You can also provision large LRTs across multiple devices for numeric-based routing.

Enterprise Plug-in Support

The Enterprise (enterprise1.0_Package.zip) Plug-in for Release 1.0 contains element managers for the Oracle Enterprise Session Border Controller (E-SBC) and Oracle Enterprise Communications Broker (ECB) products.

Enterprise Session Border Controller Support

E-SBC product devices are supported by the Oracle Communications Session Element Manager, Oracle Communications Report Manager, and Oracle Communications Route Manager applications. From the GUI, you can launch the E-SBC login page and perform operations on the E-SBC except for loading the E-SBC configuration when the selected E-SBC is operating in the Basic Mode. Once the Enterprise plug-in is installed, you can access the following sliders:

- **Dashboard Manager**—The dashboard summary view of at-a-glance status and key performance indicators for your managed devices.
- **Device Manager**—Use this slider to simplify the management of small to large networks of devices.
- **Configuration Manager**—Use this slider to do the following:
  - You can select from the following distinct configuration view styles that display a hierarchical view of infrastructure elements and their physical and logical components (for example, physical interface, virtual interface, realm, signaling service, session agents, and so on).
  - View the local configuration, change the configuration and push these changes to a device.
  - Use the **Global Parameter**, **Offline Configurations**, and **Reusable Modules** folder nodes to make configuring devices easier and manage software for multiple networks.
  - Use the features in the **Configure archive** folder node to perform automated and manual configuration backup for a device and restore configurations to a device from the archive.
- **Performance Manager**—View SNMP, IP, environmental and other performance statistics collected from product devices.
- **Report Manager**—Schedule and run dynamic reports on NF device group(s) in your network.
- **Route Manager**—Update local route table (LRT) data on NF device group(s). You can also provision large LRTs across multiple devices for numeric-based routing.

Oracle Enterprise Communications Broker Support

ECB product devices are supported by the Oracle Communications Session Element Manager application. From the GUI, you can launch the ECB login page and perform operations for ECB product devices. Once the Enterprise plug-in is installed, you can access the same Session Element Manager and Session Delivery Manager sliders that you can for the E-SBC product with the following exceptions:

- You cannot load the ECB configuration with Configuration Manager.
- You cannot use the ECB in Report Manager and Route Manager.
- You cannot modify user group privileges for the ECB in Security Manager.

EnterpriseExt Plug-in Support

The EnterpriseExt (enterpriseext1.0_Package.zip) Plug-in for Release 1.0 contains element managers for the Oracle Enterprise Interactive Session Recorder (ISR) and Oracle Enterprise Operations Monitor Users (EOM) products.

Oracle Enterprise Operations Monitor Support

EOM product devices are currently supported by the Oracle Communications Session Element Manager application in **Device Manager** only. There is no support for the EOM in any of the other SEM sliders. Once the EnterpriseExt plug-in is installed, you can launch the EOM login page and perform operations in the GUI for EOM product devices in **Device Manager** where you add and manage devices and device groups with the following exceptions:

- SEM does not support applying work order administration to the EOM, even though a work order displays the EOM as a selection.
- SEM does not support the **Show Details** functionality for the EOM.

Oracle Enterprise Interactive Session Recorder Support

ISR product devices are currently supported by the Oracle Communications Session Element Manager application in **Device Manager** only. There is no support for the ISR in any of the other SEM sliders. Once the EnterpriseExt plug-in is installed, you can launch the ISR login page and perform operations in the GUI for ISR product devices in **Device Manager** where you add and manage devices and device groups with the following exceptions:

- SEM does not support applying work order administration to the ISR, even though a work order displays the ISR as a selection.
- SEM does not support the **Show Details** functionality for the ISR.

Software Installation Prerequisites

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

Session Delivery Manager Installation

Ensure that you are currently running Oracle Communications Session Delivery Manager, Release 7.5M3 before you upgrade to Oracle Communications Session Delivery Manager, Release 8.0. If you are running any version of Oracle Communications Session Delivery

Manager prior to Release 7.5M3, you cannot install Oracle Communications Session Delivery Manager, Release 8.0.

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 SDM Release 8.0.

All work orders must be in a **Committed** state before you upgrade to SDM, Release 8.0 because the migration of existing work orders on a server running SDM, Release 7.5m3 is not provided when you upgrade to SDM, Release 8.0. 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.

Check System Requirements

Oracle has certified the following hardware ai

nd 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 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.

Session Delivery Manager Software Distribution Media

Session Delivery Manager Software Distribution Media for Release 8.0 GA

The following files are available for Oracle Communications Session Delivery Manager, Release 8.0:

File Name	Description
NNC80OracleLinux65_64bit.tar.gz	Oracle Linux operating system version 6.5, 64 bit installation file package.
NNC80OracleLinux70_64bit.tar.gz	Oracle Linux operating system version 7.0, 64 bit installation file package.

File Name	Description
CXFClientNNC80.zip	NNC8.0 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.
NNC80RESTClient.zip	NNC8.0 REST client zip file.
MIBs_NNC80.zip	NNC8.0 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.
sd1.0_Package.zip	This package contains the Session Delivery (SD) plugin for release 1.0.
enterprise1.0_Package.zip	This package contains the Oracle Enterprise Session Border Controller (ESBC)/Oracle Enterprise Communications Broker (ECB) plug-in for release 1.0.
enterpriseext1.0_Package.zip	This package contains the Oracle Communications Interactive Session Recorder (ISR)/Oracle Enterprise Operations Monitor (EOM) plug-in for release 1.0.

Session Delivery Manager Documentation Distribution

You can access the latest Oracle Communications Session Delivery Manager documents, including the product plugin documents from the Oracle Help Center Communications Documentation web page.

Session Delivery Product Plug-in Platform Support

The Session Delivery (SD) product plugin supports the following platforms:

- Acme Packet 3800
- Acme Packet 3810
- Acme Packet 3820
- Acme Packet 4250
- Acme Packet 4500
- Acme Packet 4600
- Acme Packet 6100
- Acme Packet 6300
- Acme Packet 6350
- Acme Packet 9200

> **Note:**
>
> The Acme Packet 9200 is not supported by Oracle Communications Report Manager.

- Acme Packet Session Director - Server Edition
- Acme Packet Session Director - Virtual Machine Edition

Enterprise Product Plugin Platform Support

The Enterprise product plugins support the following platforms:

- Acme Packet 1100
- Acme Packet 3900
- Acme Packet 4500
- Acme Packet 4600
- Acme Packet 6100
- Acme Packet 6300
- Acme Packet Enterprise Session Director - Server Edition
- Acme Packet Enterprise Session Director - Virtual Machine Edition

Supported Session Delivery Product Releases

The Session Delivery (SD) plug-in has the following device software release support.

The following table shows new support that was added for SD product releases, which is provided in the current SD plug-in release. The tables that follow this table provide a full list of SD supported releases.

> **Note:**
>
> All plugins inherit the support of all SD releases that were previously managed by SDM 7.5M3.

Table 1-1 SD Plug-in Software Release Support Summary

Plug-in Release	Software Release
1.0	M-Cz4.1.0
	S-Cz7.3.0M3
	S-Cz7.3.0M4
	S-Cz7.3.5M2
	S-Cz7.4.0M1
	S-Cz7.4.1
	S-Cz8.0.0

Oracle Communications Session Border Controller Releases

Table 1-2 C/CX Software Support

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

Table 1-3 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
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 1-4 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 1-5 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 1-6 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 1-7 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 1-8 MCZ Software Support

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

Supported Enterprise Product Releases

The ESBC-ECB and ISR-EOM plug-ins have the following device software release support.

ESBC/ECB Plug-in Release Summary

Plug-in Release	Software Release
1.0	E-Cz7.3.0M3 E-Cz7.5 P-Cz2.2.0

Oracle Enterprise Session Border Controller Releases

Table 1-9 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 1-10 PCX Software Support

Base Software Release	Follow-on Releases
P-Cx100F1	-
P-Cz2.0.0	M4
P-Cz2.1.0	-
P-Cz2.2.0	-

Release 8.0 Features

The following table describes the Release 8.0 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
SDM Server Database Management	There are new backup command options for plugins.	Refer to the *Backup Command Options* section in the *Session Delivery Manager Server Database Maintenance* chapter of the *Oracle® Communications Session Delivery Manager Administration Guide*.
IPv6 support	The SDM server supports IPv6 communication with northbound systems only.	N/A
Multi-NIC support	SDM now has Multi-NIC support for northbound and southbound interfaces.	N/A
Oracle Linux support for 7.0, 7.1 and 7.2	There is new support for Oracle Linux 7.0, 7.1 and 7.2. There is no longer support for Red Hat Linux and CentOS starting with SDM, Release 8.0.	Refer to the Check System Requirements section.

Feature	Description	Where Documented
Oracle Berkley DB XML	SDM incorporates the latest upgrade of the Oracle Berkley DB XML with improved index handling.	N/A
Plugin Service	Applications can be uploaded and installed on the SDM platform through its plugin service to manage specific infrastructure products, configurations, and solutions for service providers.	Refer to the *Manage Product Plugins* section in the *Oracle® Communications Session Delivery Manager Administration Guide* for more information.
REST API	There is REST API extended support of the SDM plug-in service, devices, and for configuration purposes.	*REST API for Session Delivery Manager Release 8.0*
SDM application Help	Changes were made to the SDM application help. A plug-in that is installed in SDM provides help documents and provides a page from where to access them.	SDM application help
SDM element manager plug-in support	Oracle Communications Session Delivery devices, such as the SBC, SLB, MSG, USM, CSM, and SR are supported by the Session Delivery (SD) plug-in. The Oracle Enterprise Session Border Controller (E-SBC) and Oracle Enterprise Communications Broker (ECB) devices are supported by the Enterprise plugin. The Oracle Enterprise Operations Monitor (EOM) and Oracle Communications Interactive Session Recorder (ISR) are supported by the EnterpriseExt plug-in.	Refer to the Plug-in Support Matrix section for more information.
REST API	With the introduction of Oracle Communications Session Delivery Manager, Release 8.0, the SOAP API client is provided for backwards compatibility only. The SOAP API will not support any new APIs for new SDM enhancements. Use the *REST API for Oracle Communications Session Delivery Manager* for access to new SDM features via a programmatic API.	*REST API for Session Delivery Manager Release 8.0*

Oracle Communications Report Manager Features

Feature	Description	Where Documented
Plug-in and NF support	Support was added for Oracle Communications Report Manager for collecting data for devices or device groups.	*Oracle® Communications Report Manager User Guide*

Oracle Communications Route Manager Features

Feature	Description	Where Documented
Plug-in support	Support was added for Oracle Communications Route Manager.	*Oracle® Communications Route Manager User Guide*

Product Plug-in Features

The Session Delivery (SD) product plug-in for Release 1.0 and ESBC-ECB product plug-in for Release 1.0 contains support for Oracle Communications Session Element Manager, Oracle Communications Report Manager, and Oracle Communications Route Manager applications, which are described below.

> **Note:**
>
> The ISR/EOM product plug-in for Release 1.0 has limited Oracle Communication Session Element Manager support only. See your product plug-in documentation for more specific information.

Oracle Communications Session Element Manager

Feature	Description
Device clusters	The device clusters feature was added to have network function (NF) device clusters that can contain one or more groups that contain a device, a device cluster, or a high availability (HA) pair, which can then be provisioned by using an offline configuration.
Global Parameter Network Function (NF) support	NF support for global parameter work orders and software work orders was added.
GUI cut-through URL	You can use Oracle Communications Session Element Manager as a single source from which to access and manage multiple products. When you select a device in Device Manager and click **Launch**, the system communicates to the device and displays the login page.
NF Support as per ETSI-MANO	Support was provided for an a simple or complex NF that can be composed of device groups and devices. A simple NF can be a standalone device, high-availability (HA) pair or device cluster. A complex NF can consist of device groups that further define topological constructs and complex structures for device containment.

> **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.

Oracle® Communications Session Element Manager SOAP API Guide

Changes to the CXF client were added, which includes JDK 1.8 support.

Oracle Communications Report Manager Features

Product plug-in support was added and NF support was added for Oracle Communications Report Manager for collecting data for devices or device groups.

Oracle Communications Route Manager Features

Product plug-in support was added for Oracle Communications Route Manager.

Session Delivery Manager Documentation Changes

The following tables describe the documentation changes for Oracle Communications Session Delivery Manager, Release 8.0.

> **Note:**
>
> With the introduction of the product plugin service and changes in the SDM product, only the Oracle Communications Session Delivery Manager Documentation Library appears in the *About This Guide* section of each SDM guide.

Oracle Communications Session Delivery Manager Installation Guide

> **Note:**
>
> The *Install Software Patches* chapter was removed because this type of installation is no longer supported.

Current Chapter	Changes
Pre-Installation Tasks	• Support was added in the *Check System Requirements* section for Oracle Linux 7.0, 7.1 and 7.2. Oracle Communications Report Manager supports Oracle Linux 6.x only. • The *Verify the Required SDM_localhost Entry is in the Hosts File* section was added for configuring internal SDM server communication. • The *Cluster Requirements* section was added. • The *Upgrade Linux on Your Server* section is now a subsection of the *Upgrade to a Supported Version of Linux* section. • The *Resolve Any RPM Installation Dependencies* section was broken into two sections: *Resolve Any Oracle Linux 6 Install Dependencies* and *Resolve Any Oracle Linux 7 Install Dependencies*. • The *Specify NNCentral User Privileges* section was changed because syntax was changed in the configuration. • A note was added to the *Check System Requirements* section that says 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.
Typical Installation	• The *Install a New Standalone Server*, *Install a New SDM Cluster*, *Upgrade a SDM Standalone Server*, and *Upgrade a SDM Cluster* sections were added. • The *Typical Installation* section was updated to include a summary of high-level tasks. • The *Select the Typical Installation* was renamed to the *Start the Typical Installation* section, and was changed to exclude information about Oracle Communications Application Orchestrator because this product is not supported in SDM Release 8.0. • A note was added to the *Configure Web Server Security* section that says 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. • The *Start the Oracle Communications Session Delivery Manager Server* section was renamed to *Start the Server after a Standalone Installation* and the *Start the Server after a Cluster Installation* was added.

Current Chapter	Changes
Custom Installation	• The *Select the Custom Installation* section was renamed to *Start the Custom Installation* and the *Select the Custom Installation* was integrated into the *Start the Custom Installation* section and updates were made. • The *Configure Clusters* section and its subsections were removed. Some of information from this section was restructured and now appears in the *Install a New SDM Cluster* section and subsections and *Upgrade a SDM Cluster* section and subsections in the *Typical Installation* chapter, and the *Session Delivery Manager Server Cluster Maintenance* chapter in the *Oracle Communications Session Delivery Manager Administration Guide*. • The *Configure Southbound Interface Transport Layer Security* section was renamed to *Configure Transport Layer Security Certificates* and updated. The SDM server can use a single secure sockets layer (SSL) key store of entity or trusted certificates to authenticate Transport Layer Security (TLS) connections to all southbound interface (SBI) applications, product plugins, and their respective network function device(s) when TLS communication is required. • The *Implement SDM Server Clusters* section was added and the *Cluster Requirements* subsection was added to it. The existing *Configure Clusters* section and its respective subsections were moved under this section. • The *Set the Global Identifier* section title was changed to *Specify the Global ID for Northbound Trap Receivers*. This section was re-written for clarity and updated. • The *Start the Oracle Communications Session Delivery Manager* section was renamed to *Start the Server after a Standalone Installation* and updated. The *Start the Server after a Cluster Installation* was added.

Oracle Communications Session Delivery Manager Administration Guide

Current Chapter	Change
Implement Session Delivery Manager on Your Network	This chapter was added to provide information to help you decide how to implement SDM on your network and contains reorganized SDM component and cluster information that previously existed in past versions of this document and updated information.

Current Chapter	Change
Session Delivery Manager Application Overview	This chapter was added to provide information for accessing SDM, getting product plugin help, customizing the display, using tool tips, and changing the existing SDM user login. These sections were moved to this guide from the *Oracle Communications Session Element Manager User Guide*.
Manage Product Plugins	This chapter was added for the management of product plugins in SDM, which includes plugin installation guidelines and preparation, and plugin tasks.
Security Manager	Changes were made to privileges for user groups to accommodate the product plugin service. Also, improvements were made to the *Configure External User Authentication* section and subsections. The *Determine the RADIUS Group that Devices are Using* section was added.
Fault Manager	This chapter was moved to this guide from the *Oracle Communications Session Element Manager User Guide*. The *Session Delivery Manager Traps* section was updated with new traps and other minor changes and improvements were made to this chapter. How an alarm trap group is selected was changed in the *Customize Trap Severity Levels* section and trap information was moved to the *Configure Northbound Interface Traps* chapter in this guide.
Manage Transport Layer Security Certificates	This chapter was added to provide information about uploading entity or trusted certificates to SDM for east-west peer SDM server communication, and for southbound communication with network function (NF) devices.
Configure Northbound Interface Traps	This chapter was previously named *Northbound Interface*. This chapter was also rewritten for clarity and information for configuring and managing fault notifications was moved to this chapter from the Fault Manager chapter of the Oracle Communications Session Element Manager User Guide.
Monitor Session Delivery Manager Server Health and Disk Usage	This chapter was previously named *Health Monitor* . The *Add the Heartbeat Trap to Monitor Server Availability* section was moved from the Oracle Communications Session Element Manager User guide to this guide and chapter and renamed *Use the Health Monitor to Determine SDM Health*. Also, the new *Monitor SDM Server Disk Usage* section and subsections were added to this chapter.
Session Delivery Manager Server Database Maintenance	This chapter was previously called *Database Tasks*. Several sections within this chapter were renamed, reorganized, and rewritten for clarity.
Session Delivery Manager Server Cluster Maintenance	This chapter was previously named *High Availability*. Several sections within this chapter were renamed, reorganized, and rewritten for clarity.

Current Chapter	Change
Appendix A: Available Session Delivery Manager Server Scripts	The ./bin/patchManagement.sh script and description was removed because this action is no longer supported on the SDM server.
Appendix B: Fault Trap Notification Contents	The information in this new appendix was from the previously named *High Availability* chapter.

Oracle Communications Session Delivery Manager Security Guide

Current Chapter	Change
Secure Installation Guidelines	The *Session Delivery Manager Product Plugin Service* section was added, which includes information about the plug-in service. The *Southbound Interface Transport Layer Security* section was renamed *Transport Layer Security Certificates* and updated for changes to the Transport Layer Security (TLS) feature. Information was added to the *Security Considerations for Developers* section that directs users to the REST API for Oracle® Communications Session Delivery Manager Release 8.0 for more information about using the new REST Application Programming Interface (API) and a note was added that says the Oracle® Communications Session Element Manager SOAP/XML Provisioning API Guide, Release 8.0 is deprecated.

REST API for Oracle Communications Session Delivery Manager Release 8.0

This new web-based documentation 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 Oracle Communications Session Delivery Manager and its supported product plug-ins.

Session Element Manager, Report Manager, and Route Manager Documentation Changes

The following tables describe the Session Element Manager, Report Manager, and Route Manager documentation changes that have occurred with the introduction of the Session Delivery (SD) Plugin Release 1.0, and Enterprise Plugin Release 1.0. These plugins are offered with Oracle Communications Session Delivery Manager, Release 8.0.

Oracle Communications Session Element Manager User Guide

Current Chapter	Changes
About This Guide	The description for each guide was updated.

Current Chapter	Changes
Overview	This chapter was rewritten to describe how the Oracle Communication Session Element manager product is offered through the product plugin. Information about accessing Session Element Manager features and customizing the display through Session Delivery Manager was incorporated into the *Session Delivery Manager Application Overview* chapter of the *Oracle Communication Session Delivery Manager Administration Guide*. The information that was in the *Session Delivery Product Device Support* section is in the *Oracle Communications Session Delivery Manager, Release 8.0 Release Notes*.
Device Manager	This chapter was rewritten and updated to introduce how network function (NF) groups, device groups, device clusters and devices are implemented. The following sections were changed: • Device clusters are now discussed in the *Use an Offline Configuration for a Device Cluster* chapter. • The *Manage Network Functions with Devices* section was added, and new sub-sections were added. • The *Export Device Information to Your Local System* section was renamed *Export Device Information from Device Manager* and the *Export Detailed Device Information from Device Manager* was added. • The *View Device Information* section was renamed *View Network Function Information* and its sub-sections were renamed.
Configuration Manager	This chapter was rewritten and updated to introduce network functions (NF) support in Configuration Manager. Several sections and subsections were renamed, reorganized and new information was added to these sections and new sections were added. Also, previous sections about using global parameters, offline configurations, and reusable configuration modules now have their own chapters in this guide.
Configure and Apply Global Parameters to Devices	This new chapter was added and rewritten to target specific configuration changes to the parameters in Configuration Manager. You can then use a global parameter work order to apply these changes across a group of targeted devices that must have the same software version and hardware platform. Some information in this chapter was in the previous *Configuration Manager* and *Work Orders* chapters.

Current Chapter	Changes
Configure and Apply a Software Upgrade to Devices	This new chapter was added and rewritten to use a software upgrade work order to apply automatic software upgrades across a group of targeted devices that have the same software version and hardware platform in Device Manager. Some information in this chapter was in the previous *Configuration Manager* and *Work Orders* chapters.
View Work Order Information	This new chapter was added and rewritten to view work order information in Dashboard Manager, Device Manager, and Configuration Manager. Some information in this chapter was in the previous *Work Orders* chapter.
Use an Offline Configuration for a Device Cluster	This new chapter was rewritten and added for using a common, top-level offline configuration template can be used to provision network function (NF) device cluster containing one or more groups that contain a device or a device high availability (HA) pair. Some information in this chapter was in the previous *Device Manager* and *Configuration Manager* chapters.
Configure and Apply a Reusable Configuration Module	This new chapter was rewritten and added for using a Reusable Configuration Module (RCM), which is a work flow template that describes a sequence of configuration changes that are used to deploy a feature on a device. Information in this chapter was in the previous *Configuration Manager* chapter.
Dashboard Manager	This chapter was previously named *View Summary Data for Devices*. Improvements were made to the structure and writing of this chapter.
Performance Manager	The information in the *View Performance Group Data* section and subsections was moved to the *Session Delivery Performance Group Reference* appendix (A).
Performance Group Reference	This new appendix describes the types of performance group data that can be viewed for a device in Performance Manager. Information in this chapter was in the previous version of the *Performance Manager* chapter.
Session Element Manager Traps	This new appendix describes a list of SNMP traps (SNMP Trap OIDs) that originate from devices that appear in SEM events and alarms. Information in this chapter was in the previous *Fault Manager* chapter.

Oracle Communications Session Element Manager SOAP API Guide

Current Chapter	Changes
Overview	The *Using the Apache CXF Client on the Session Delivery Manager Server* section was updated to include JDK 1.8 support.

Oracle Communications Report Manager Installation Guide

Minor changes were made to this document that support the installation of Report Manager.

Oracle Communications Report Manager User Guide

Changes were made to this document that support the introduction of the Session Delivery product plugin and NF support. Also, the Create a Data Model section and its subsections were added, which provide instructions for creating a data model that is later used for a BI Publisher SDM report.

Oracle Communications Route Manager User Guide

All chapters and their respective sections in this document were renamed, rewritten, reorganized, and new information was added to this document to support the introduction of the product plugin and new device grouping structure.

2
Known Issues

This chapter describes the known issues in Oracle Communications Session Delivery Manager. The status column identifies what release the defect or caveat was closed, or if it was closed because it was non-reproducible, or some other state. See the Oracle external database (Bug DB) defect tool for more information about defect states.

Table 2-1 SDM Known Issues

Defect Number	Description	Found	Fixed
26354293	The *Determine the RADIUS Group that Your Devices are Using* section was added to the Security Manager chapter of the Oracle Communications Session Delivery Manager Administration Guide to provide the information required to integrate SDM with a RADIUS server for user authentication.	7.5M2	8.0
25746713	SDM trap support was missing for the apMonitorCollectionDownTrap and apMonitorCollectionClearTrap traps. Support for these traps was added in SDM, Release 8.0. However, even though SDM has correct trap mapping, there is an SBC defect regarding these traps, where the incorrect value is being sent from device to SDM. See defect 25876639 to track the SBC issue.	7.5M3	8.0
26523097	The ACLI customer configuration failed to load due to XSD validation errors for local-policy/@source-realm and realm-config/@identifier attributes. These errors occurred because of a stricter regular expression pattern for these attributes in SCX630m3 XSD. The regular expression pattern for types RealmNameOrStar and Name in SCX630m3 and SCX630m7 XSDs were modified to replicate the ACLI behavior that allowed values starting with numbers or alphabetical characters with a length of up to 128 characters.	7.5M2	8.0
21026830	The customer cannot change or modify local-policies that have inter-attribute dependencies, where the value of the addr attribute determines value of type and addrPrefix attributes. SDM now accepts *to* and *from* from a sub-element with same addr value but a different type value.	7.4M3	8.0
26355836	The NNCGEN AttributeTypeOverrides.xsd file was updated with the correct specific regex pattern of the attribute sipInterface/@stopRecurse and the XSDs were regenerated.	7.5M2	8.0
20961816	The **Apply** button on the various **Realms** tabs was disabled to prevent a user from reversing the LCV changes. This forces the realm configuration to be added before the SIP interface.	7.5M3	8.0
25477544	Berkeley DB XML was patched to free deleted file descriptors.	7.5	8.0
28557993	When admin-security is enabled on an SBC 6350 HA device pair, the devices are unable to communicate with SDM by way of ACP. **Workaround:** On each HA device pair, you must disable the login banner so these devices can communicate with OCSDM. From admin mode, use the configure terminal > security > admin-security > login-config command path to access the **enable-login-banner disabled** configuration element to disable the login banner.	8.0	

Table 2-1 (Cont.) SDM Known Issues

Defect Number	Description	Found	Fixed
26174243	A configuration inventory containing an ACME 9650 networkInterfaceId sub-element with incorrect family attribute takes more than 30 minutes for the update of the family attribute to be applied before loading successfully. The "step 6 XQuery" was updated with refactored and efficient XQuery to update the family attribute of networkInterfaceId sub-elements, and another XQuery was updated to check for any invalid networkInterfaceId sub-element with empty family attribute even after all the updates have been made. If such an invalid networkInterfaceId sub-element exists, the load process is failed.	8.0	8.0
25889227	When upgrading from NNC75M1 to NNC75M3, the setup.sh script did not terminate after an upgrade was completed because the SessionAgent OD file incorrectly had nncIsRequired=true annotation for the identifiers attribute which was generating XSD with the mandatory SessionAgentIdentifier sub-element for sessionAgent element (minOccurs=1). When the user entered a SOAP add-element request, it did not contain value for this sub-element and therefore the operation failed during the required sub-element validation in SDM. The SessionAgent OD file was modified to remove the nncIsRequired=true annotation on the identifiers attribute and the XSDs were re-generated to make the SessionAgentIdentifier sub-element optional for sessionAgent element (minOccurs=0).	7.5M3	8.0
25388326	Report Manager does not support the use of special characters in the ocsremdw password. **Workaround:** You must use alphanumeric characters only.	7.5M2	
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 will be fixed in the ScZ7.4.0p2 release.	7.5M3	N/A
25353891	For most SBC releases, Report Manager does not support starting collection on individual HDR groups. See the SBC defect 25576484 for more information. **Workaround:** If individual selection of these groups is required, the user must log into the device(s) and run the start collection group.	7.5M3	
24588116	The apEnvMonTrapCurrentState trap does not display the card name in SDM fault alarm description field due to an SBC defect that 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	N/A
26417111	Historical Data Recording (HDR) failed to load because there was a duplicated column of GPRS Tunneling Protocol (GTP) statistics.	8.0	
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	
N/A	If you are using the Internet Explorer web browser for your SDM 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 SDM session and be forced to log back into SDM. **Workaround:** We suggest that you use another supported vendor web browser, such as Firefox.	8.0	
N/A	Due to SBC defect 24361366, SDM does not support an SBC device that is configured with an IPv6 management address.	8.0	

Table 2-1 (Cont.) SDM 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	
26409117	There are some SBC devices that do not support SSH KEX, even though these devices suggest that they do support SSH KEX. For example, an SBC device suggests it supports diffie-hellman-group-exchange-sha256, diffie-hellman-group-exchange-sha1, diffie-hellman-group14-sha1, and diffie-hellman-group1-sha1 algorithms, but when SDM tries to SFTP using diffie-hellman-group14-sha1 or diffie-hellman-group1-sha1, it is unable to establish an SFTP session and the device remains unmanageable on SDM because either the XSD download or the load LCC is unsuccessful.	8.0	

Database Objects Not Migrated from SDM 7.5M3

When you upgrade from SDM 7.5M3 to SDM 8.0, not all data in the database can be carried over to the new database because of the way device information is structured and stored. The following types of data is not carried over to the new database:

XSD File Name	Database Container	Description
alarms.xsd	alarms.dbxml	Maintains alarms for Fault Manager.
alarmsummaryview.xsd		
events.xsd	events.dbxml	Maintains events for Fault Manager.
AuditTrail.xsd	AuditTrail.dbxml	Initiates audit logs for user actions.
DeviceStatDetails.xsd	DeviceStatDetails.dbxml	Reports the status of a device. For example, UP or DOWN.
DeviceConfigVersion.xsd	DeviceConfigVersion.dbxml	Maintains the configuration version for each device.
OfflineConfigVersion.xsd	OfflineConfigVersion.dbxml	Maintains Offline configuration version for each device.
KPIStatistics.xsd	KPIStatistics.dbxml	Maintains KPI details for each device.
<model>.xsd	All model containers	Maintains device configuration information.
AlarmSyncs.xsd	AlarmSync.dbxml	
ConfigArchive.xsd	ConfigArchive.dbxml	Maintains configuration archival information.

XSD File Name	Database Container	Description
ConfigDataVariables.xsd	ConfigDataVariables.dbxml	Maintains information for any custom data variables that are created.
ConfigMapsClassic.xsd		
DeviceCluster.xsd	DeviceCluster.dbxml	Maintains device cluster group details.
DeviceSpecificData.xsd	device	
DeviceTaskDetails.xsd	DeviceTaskDetails.dbxml	Maintains device provisioning log information.
Fault.xsd	Fault.dbxml	Maintains Sequence ID (SID) information for trap processing.
FSMLocks.xsd	FSMLocks.dbxml	Maintains resource lock information for trap and route set processing.
GlobalConfigView.xsd		
LogMessages.xsd	LogMessages.dbxml	Maintains log messages.
NncBase.xsd		
OfflineConfigView.xsd	OfflineConfigVersion.dbxml	
PollTask.xsd	PollTask.dbxml	Maintains poller data.
RcmConfig.xsd	RcmConfig.dbxml	Maintains reusable configuration information.
schedule.xsd	scheduler.dbxml	Maintains schedule information.
WorkOrder.xsd	WorkOrder.dbxml	Maintains work order information.
AO.xsd	AO.dbxml	
AOComposite.xsd	AOComposite.dbxml	
AOCapacity.xsd	AOCapacity.dbxml	
	elasticity.dbxml	
	sipTrunkFed.dbxml	
	All Configuration view.dbxml	

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

- A hot backup of the Oracle Communications Session Delivery Manager database is not supported in Oracle Communications Session Delivery Manager Release 8.0.
  Workaround: Shut down the SDM server(s) and do a cold backup of the SDM database. Refer to the *Session Delivery Manager Server Database Maintenance* chapter of the *Oracle Communications Session Delivery Manager Administration Guide* for more information about performing a cold backup.
- We recommend that the 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 SDM 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: 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.
- A Multi-NIC environment has the following limitations:
  - An IPv4 address is supported only for the default NIC for SDM cluster server-to-server communication. When you perform the **Custom** installation in the SDM **./setup.sh** application to configure an SDM cluster, you must enter an IPv4 address for the default eth0 NIC only for each member added to the cluster. See the *Verify the Required SDM_localhost Entry in the Hosts File* section in the *Oracle Communications Session Delivery Manager Installation Guide* for configuration information. After starting the SDM server(s), you cannot change the IP address for cluster communication.
  - When you use the SDM setup process to create a self-signed certificate for SDM northbound WebServer HTTPS communication, a single DNS name can be used only because SDM supports one northbound HTTPS interface.
  - When you use the SDM setup process to create an entity certificate to facilitate mutual authentication for SDM southbound (ACP), a single DNS name can be used only because the SDM supports one southbound ACP over TLS interface.
- In the **Element Manager Plugins** table (**Tools** > **Plugin Management**), you cannot sort the **Status**, **Server**, and **Date Modified** columns in ascending or descending order.
- If you implement an SDM 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**.

Oracle Communications Session Element Manager

- 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.
- The ability to use an offline configuration to provision network function (NF) device clusters is not available for the Acme Packet 9200 platform.

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.
- The charts in a canned BI Publisher report are inter-linked. The filter for a time value displayed for the X-axis does not work in this release. If the user clicks on a data point in one chart, the other charts display **No Data Available**.
- By default, the **nncentral** user password for the Oracle reporting database expires in 6 months. Once the password expires, the nightly backup and restore capability for reporting fails. You must change the password for the nncentral user and go to the Register BI Publisher screen to change the Oracle database password.

  > **Note:**
  >
  > This limitation applies to Report Manager users who have installed an Oracle database on the same server as SDM only.

- You must use alphanumeric characters only because Report Manager does not support the use of special characters in the ocsremdw password.
- Report Manager does not support data gathering or the TscfStats group for SBC devices with ScZ7.40 and ScZ7.4.0p1 releases. This problem will be fixed in the ScZ7.4.0p2 release.
- For most SBC releases, Report Manager does not support starting collection on individual HDR groups. If individual selection of these groups is required, the user must log into the device(s) and run the start collection group.
- With the introduction of SDM, 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 SDM 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 SDM server setup program (setup.sh) or upload it through the SDM GUI.

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

- In SDM, Release 8.0, 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 SDM, Release 8.0, Report Manager does not support device clustering.