Oracle® Communications Session Delivery Manager

Release Notes
Release 7.4

February 2015

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Contents

About this Guide

The *Oracle Communications Session Delivery Manager Release Notes* provide the following information about 7.4 and subsequent maintenance releases:

- Overview of Session Delivery Manager
- Installation, database migration, patch management and cluster setup
- Session Delivery Manager Release 7.4 distribution package
- Platforms supported
- Device releases supported
- New Features
- Problems resolved
- Known issues
- Limitations

Related Session Delivery Manager Documentation

The following table lists related documents for the Session Delivery Manager

Document Name	Document Description
Release Notes	Contains information about the administration and software configuration of the Session Delivery Manager feature support new to this release.
Installation Guide	Contains graphical and next mode installation information.
High Availability Guide	Describes Session Delivery Manager High Availability (HA) and the HA cluster, which is a network of tightly-linked servers. HA provides continuous management of the SDM system.
Web Services SOAP XML Provisioning API Guide	Provides a full description of the individual interface definitions that make up the Application Programming Interface (API).
REST API Guide	The OC SDM REST API consists of resources, representations, URIs and HTTP request types that make up the uniform interface used for client/server data transfers.
Core Functionality Guide	Contains an overview of the Session Delivery Manager graphical user interface (GUI), detailed information about managing devices in Net-Net Central, and Net-Net Central licenses.
Session Element Manager Guide	Contains detailed information pertaining to the Session Element Manager application and describes the dashboard summary view, audit log, fault, and performance views.
Session Route Manager Guide	Contains detailed information about centrally automating the management and distribution of routing data.

Document Name	Document Description
Quick Start Guide	Contains a brief description of the GUI, along with information on how to add a device and perform basic configuration tasks.
Administration Guide	Contains information about security administration, which lets you create new users and new user groups, and set group-based authorization.
Application Orchestrator User Guide	Contains detailed information of the use Application Orchestrator to set up and deploy virtual appliances.
Report Manager Installation Guide	Contains instructions for installing Report Manager's dependencies and registering BI Publisher.
Report Manager User Guide	Contains information about configuring collection groups and creating reports.

Revision History

Date	Description
May 2014	• Initial release
July 2014	• Adds chapter for Session Delivery Manager release 7.4M1
November 2014	• Adds chapter for Session Delivery Manager release 7.4M2 • Adds OS versions to Platforms Supported
February 2015	Adds chapter for Session Delivery Manager release 7.4M3

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Session Delivery Manager Release 7.4

Introduction

The *Oracle Communications Session Delivery Manager Release Notes* provide the following information about this release:

- Overview
- Installation, Database Migration, Patch Management and Cluster Setup
- Session Delivery Manager Release 7.4 Media
- Platforms Supported
- Device Releases Supported
- New features in 7.4
- Problems Resolved
- Known Issues
- Limitations

Overview

Oracle Communication's Session Delivery Manager provides an advanced framework for provisioning, managing, and monitoring session delivery networks. Session Delivery Manager has an advanced architecture, called Service Oriented Architecture (SOA), which provides such features as increased scalability using load balancing across clustered servers, the ability to load Session Delivery Manager configurations on-demand, and a rich thin-client interface. You can use the enhanced user interface to access such services as Element Manager for configuring Oracle Communications SBCs or Route Manager for configuring LRTs on Oracle Communications SBCs.

Session Delivery Manager also includes a dashboard summary view of key performance indicators for the managed devices and provides three different views into Oracle Communications SBC configuration elements: Default, List, and ACLI.

The OVM template available with this release is Oracle Linux 6.5 with bash-4.1.2-15.el6_5.2.x86_64.rpm. This fixes the following security vulnerabilities referenced by CVE-2014-7169, CVE-2014-6271, CVE-2014-7186, CVE-2014-7187 and CVE-2014-6278.

Apply the latest Oracle Linux bash patches as they become available to fix the remaining vulnerabilities.

Hardware Support

The Session Delivery Manager supports the following hardware:

- AP 1100
- AP 2600
- AP 3800
- AP 3810
- AP 3820
- AP 4250
- AP 4500
- AP 4600
- AP 6100
- AP 6300
- AP 7000
- AP 7250
- AP 9200
- AP 17350
- AP Enterprise Session Director - Server Edition
- AP Enterprise Session Director - Virtual Machine Edition

Trunk Manager Hardware Support

The Trunk Manager application supports the following hardware:

- AP 3800
- AP 4500
- AP Enterprise Session Director - Server Edition
- AP Enterprise Session Director - Virtual Machine Edition

Installation, Database Migration, Patch Management, and Cluster Setup

GA and Maintenance Releases

For SDM installation and database migration instructions for standalone servers or servers in a cluster, consult the *Session Delivery Manager Installation Guide, Version 7.4*.

Patch Releases and Patch Management Tool

You do not need to perform a new installation for patch releases. Please consult the *Installing Session Delivery Manager Patches* chapter of the *Session Delivery Manager Installation Guide, Version 7.4* for more information on the patch management tool.

Cluster Setup

Members of a SDM cluster must be geographically co-located. For more information on setting up a cluster, consult the *Session Delivery Manager High Availability Guide, Version 7.4*.

Session Delivery Manager Release 7.4 Distribution Media

The following files are available for SDM Release 7.4:

Document Title	File Name	Description
N/A	NNC74OracleLinux63_64bit.tar.gz	Installation file for Oracle Linux v6.3+ 64 bit
N/A	NNCRHEL63_64bit.tar.gz	Installation file for RedHat Linux v6.3+ 64 bit
N/A	NNC_OL6.5_1_OVM.tar.gz	OVM template for deploying Session Delivery Manager on virtual machines
N/A	WSClassicClientNNC74.zip	Classic EMS Northbound SOAP client libraries and examples
N/A	CXFClientNNC74.zip	CFX Northbound SOAP client libraries and examples for Java 7
N/A	CXFClientNNC74JDK1.6.zip	CFX Northbound SOAP client libraries and examples for Java 6
Session Delivery Manager 7.4 Installation Guide	sdm_74_installation.pdf	Installation guide that includes graphical and text mode installation information
Session Delivery Manager 7.4 Release Notes	sdm_74_releasenotes.pdf	Contains information specific to this Session Delivery Manager release
Session Delivery Manager 7.4 Administration Guide	sdm_74_administration.pdf	Guide with detailed information about security administration, creating new users and new user groups, and setting group-based authorization
Session Delivery Manager 7.4 High Availability Guide	sdm_74_haguide.pdf	Guide with detailed information about Session Delivery Manager High Availability (HA) and the HA cluster
Session Delivery Manager 7.4 Quick-Start Guide	sdm_74_qsg.pdf	Guide with a brief description of the GUI, along with information on how to add a device and perform basic configuration tasks
Session Delivery Manager 7.4 Core Functionality Guide	sdm_74_core.pdf	Guide with detailed information about using the GUI and managing devices
Session Element Manager 7.4 User Guide	sem_74_userguide.pdf	Guide with detailed information about Session Delivery Manager's Element Manager and describes the dashboard summary view, audit log, fault, and performance
Session Element Manager 7.4 SOAP XML API Guide	sem_74_soapxmlapi.pdf	Guide with full descriptions of the individual interface definitions that make up the Application Programming Interface (API)
Session Route Manager 7.4 User Guide	rtm_74_userguide.pdf	Guide with detailed information about centrally automating the

Document Title	File Name	Description
		management and distribution of routing data
Session Report Manager 7.4 Installation Guide	rpm_74_installation.pdf	Provides instructions for installation and configuration of Report Manager components, including BI Publisher and Oracle DB.
Session Report Manager 7.4 User Guide	rpm_74_userguide.pdf	Guide with detailed information about generating reports using BI Publisher and the Session Report Manager.
Enterprise Trunk Manager Configuration Guide - Enterprise	etm_74_entconfiguration.pdf	Contains Customer information for acessing the SIP Trunk Xpress Portal and configuring the E-SBC to connect to the SP-SBC, and for connecting to the SIP Trunk established by the Service Provider.
Enterprise Trunk Manager Configuration Guide - Service Provider	etm_74_spconfiguration.pdf	Guide with detailed information for installing NNC and Trunk Manager. Also contains Service Provider information for setting up a SP-SBC, E-SBC and a SIP Trunk.
Enterprise Trunk Manager Quick Start Guide (E-SBC Bootstrap-only Mode)	etm_74_qsgbootstreap.pdf	Provides a five-step instruction for setting up a SIP Trunk between the SP-SBC and the E-SBC. This guide is for a non-SIP Session Manager (non-SIPSM) version of Trunk Manager (displays a limited menu of options).
Enterprise Trunk Manager Quick Start Guide (Full Mode)	etm_74_qsgfull.pdf	Provides a five-step instruction for setting up a SIP Trunk between the SP-SBC and the E-SBC. This guide is for the SIP Session Manager (SIPSM) enabled version of Trunk Manager (displays a full menu of options).
N/A	MIBs_NNC74.zip	Contains the latest ap-ems.mib and ap-nnc.mib. See description below.

MIBs Package for Session Delivery Manager

The ap-nnc.mib and ap-ems.mib provide SNMP support for Session Delivery Manager purposes. MIBs .zip files containing all .mib files are distributed along with the Acme Packet OS software version running on your device(s). These packages may not contain the latest version of ap-nnc.mib and ap-ems.mib.

Included on the Session Delivery Manager distribution media is a .zip file titled MIBs_NNCXXX.zip containing the latest ap-nnc.mib and ap-ems.mib. The ap-nnc.mib and ap-ems.mib contained in this and future Session Delivery Manager distributions supersedes previous versions, including the ap-nnc.mib and ap-ems.mib released with your Acme Packet OS software.

Platforms Supported

Oracle has certified the following hardware and software platforms, and client requirements for use with Session Delivery Manager Release 7.4:

Linux

- CPU: 4-core 2.1 GHz processor or better
- 16 GB RAM minimum, 24 GB RAM recommended
- 195 GB hard drive minimum, 300 GB recommended
- Oracle Linux 6.3 64-bit OVM Template
- Oracle Linux 6.3, 6.4, 6.5 64-bit
- Red Hat Linux 6.3, 6.4, 6.5 64-bit
- CentOS 6.3, 6.4, 6.5 64-bit

Device Releases Supported

Session Delivery Manager Release 7.4 supports the following versions of Acme Packet OS software. Versions new to this release are in **bold text**.

C/CX-Series

C/CX6.0.0M5, C/CX6.0.0M6, C/CX6.0.0M7, C/CX6.0.0M8

SC/SCX6.1.0M2, SC/SCX6.1.0M3, SC/SCX6.1.0M4, SC/SCX6.1.0M5, SC/SCX6.1.0M6, SC/SCX6.1.0M7, SC/SCX6.1.0M8, SC/SCX6.1.0M9, SC/SCX6.1.0M10, SC/SCX6.1.0M11

SC/SCX6.2.0, SC/SCX6.2.0M1, SC/SCX6.2.0M2, SC/SCX6.2.0M3, SC/SCX6.2.0M4, SC/SCX6.2.0M5, SC/SCX6.2.0M6, SC/SCX6.2.0M7, SC/SCX6.2.0M8, SC/SCX6.2.0M9, SC/SCX6.2.0M10, SC/SCX6.2.0M11, SC/SCX6.2.0M12

SC/SCX6.2.1F1, SC/SCX6.2.1F2, SC/SCX6.2.1, SC/SCX6.2.1M1

SCX6.2.3

SCX6.2.5F1

SCX6.3.0F1, SCX6.3.0F2, SCX6.3.0, SCX6.3.0M1, SCX6.3.0M2, SCX6.3.0M3, SCX6.3.0M4, SCX6.3.0M5

SCX6.3.3F1, SCX6.3.3F2, SCX6.3.3F3, SCX6.3.3, SCX6.3.3M1, SCX6.3.3M2, SCX6.3.3M3

SCX6.3.5F1, SCX6.3.5p4, SCX6.3.5M1

SCX6.3.6F1

SCX6.3.7F1 SCX6.3.7F2, SCX6.3.7F3, SCX6.3.7, SCX6.3.7M1, SCX6.3.7M2

SCX6.3.9F1, SCX6.3.9, SCX6.3.9M1, SCX/Z6.3.9M2, SCX/Z6.3.9M3, **SCX/z6.3.9M4**

SCX/Z6.3.15, **SCX/Z6.3.15M1**, **SCX/Z6.3.15M2**

SCX6.4.0, SCX6.4.0M1, SCX6.4.0M2, SCX6.4.0M3, **SCX6.4.0M4**

SCX6.4.6F1, SCX6.4.6F2, **SCX6.4.6F3**, **SCX6.4.6F4**

SCZ7.0.2F2

SCZ7.0.9F1

SCZ7.1.2M2

SCZ7.1.5

LCX1.0, LCX1.1.3F1, LCX1.1.3F3, LCX1.1.3, LCX1.1.3M1, LCX1.1.3M3

LCX1.5.0

PCX1.0F1

DCX1.0F1, DCX1.0F2, DCX1.0.0, DCX1.0.0M1

DCZ2.0.0, DCZ2.0.0M1

DCZ2.1.0, DCZ2.1.0M1, DCZ2.1.0M2

DCZ2.2.0

MCX1.2F2, MCX1.2

MCX2.0.0M1, MCX2.0.0M1

MCX3.0.0F1, MCX3.0.0, MCX3.0.0M1, MCX3.0.0p2, **MCX3.0.0M2**

ECX/Z6.4F1, ECX/Z6.4.0M1

ECX6.3.7M1

ECX/Z6.4.0M2, **ECX/Z6.4.0M3**

D-Series

SD7.0.0, SD7.0.0M1, SD7.0.0M2, SD7.0.0M3, SD7.0.0M4, SD7.0.0M5, SD7.0.0M6, SD7.0.0M7, SD7.0.0M8, SD7.0.0M9, SD7.0.0M10, SD7.0.0M11, SD7.0.0M12

SD7.0.2F1

SD7.1.0, SD7.1.0M1, SD7.1.0M2, SD7.1.0M3, SD7.1.0M4, SD7.1.0M5, SD7.1.0M6

SD7.2.0F1, SD7.2.0, **SD7.2.0M1**, **SD7.2.0M2**

SD7.2.3F2,SD7.2.3F3

New Features in Release 7.4

This section describes new features in Session Delivery Manager Release 7.4.

Report Manager 2.0

Beginning with SDM 7.4, the Report Manager uses the Oracle BI Publisher to manage and render reports. BI Publisher is a complete reporting solution to author, manage, and deliver reports.

The previous reporting tool in NNC 7.3 has been obsoleted. Unlike its predecessor, BI Publisher allows users to create their own reports and dashboards as well as schedule and print out these reports in the multiple formats. Users can also monitor their system with the canned reports.

If you've been using a previous version of Report Manager, pay close attention to the Installation Guide, especially for the additional options about reporting database migration.

For information on installation and setup of Report Manager, see the *Session Report Manager Release 7.4 Installation Guide* .

For information on using Report Manager, see the *Session Report Manager Release 7.4 User Guide*.

Offline Configuration

Offline configurations are configurations that can be applied to multiple devices, in order to share the same configuration data. An offline configuration is created by duplicating an existing managed device configuration or by selecting a schema from a supported software model.

Data variables allow network administrators to target elements that require device specific information, when duplicating an existing configuration. All data variables must have new values in order to push the configuration to a device.

See the *Session Element Manager Release 7.4 User Guide* for more information.

Device Clustering

A device cluster is a collection of devices sharing the same hardware, software, and configuration. By specifying an offline configuration and adding devices to a device cluster, SEM allows you to synchronize configuration changes across all members of the cluster.

Members a device cluster must share the same software version and device credentials in order to share the same configuration. Device-specific parameters can be targeted as data variables, in order to set different values for each member.

See the *Session Delivery Manager Release 7.4 High Availability Guide* for more information.

Default Password Changes

You need to configure default passwords for the admin and LIadmin user groups before starting the Session Delivery Manager application. Identical credentials must be configured during installation on all nodes of a clustered deployment.

See the *Session Delivery Manager Release 7.4 Installation Guide* for more information.

Severity-Based Alarm Display Filter

The alarm display filter allows you to enable or disable the alarms that appear on the Alarms table, by severity.

All alarms other than Clear are enabled are enabled by default. The configuration of this filter is saved in the system database and persists throughout clustered nodes.

See the *Session Delivery Manager Release 7.4 Administration Guide* for more information.

Problems Resolved

The following table lists the problems resolved in Session Delivery Manager Release 7.4:

Description
Surrogate agent > Customer next-hop does not allow more than 23 characters
If the to->address in the local policy contains letters, an invalid value exception may appear.
After SBC software upgrade, existing config archive schedule does not reflect current SBC software version
Scheduled Reports can be seen by a user who does not have the correct privilege.
The month is not supported in Fault Management Event and Alarm search,
Reporting is sensitive to the primary and secondary state of the devices in a HA pair.
The next-hop attribute in policy-attribute cannot be modified.
For a HA pair, the standby statistics displays the statistics of the active device.
Report Manager runs out of Database Connections.
Under some circumstances, the user cannot configure "H323 as a application protocol in access-control.
The codec-policy->name does not allow more than 24 chars.
For Local Policy and Access Control, the user cannot sort by Ip-Address.

Known Issues

The following table lists Session Delivery Manager Release 7.4 known issues:

Description	Workaround
When using the multi-device selection option, the reports rendered for multiple devices, only displays the first device in the header. However, the statistics rendered will contain all values for the selected devices.	N/A
The charts in a canned report are inter-linked. The filter for a time value displayed for X-axis does not work in this release. If the user clicks on a data point in one chart, the other charts displays 'No Data Available'	N/A
The daily reports shows values based on the epoch time.	N/A
HDR data collection may stop as of release SCZ712M2 if the collect-config element is modified after the push-receiver has already been configured.	To correct the issue, modify the push-receiver in SDM and perform a save-activate on the device.
An offline config that has been created for a device which is part of a HA pair cannot be used for the same devices if they are no longer used as a HA pair, but rather as individual devices.	N/A
User cannot add a Data Variable to a third-layer sub-element. For Example: An Element Rule in Sip Manipulation.	N/A
When specifying a Data Variable, "name" is a reserved word and cannot be used as an identifier.	N/A
Some of the hourly reports may take several minutes to render	N/A
The SAG and LRT values cannot be specified with more than 23 characters.	N/A
On some systems, it is possible that setup.sh will hang while checking library dependencies.	Unset the DISPLAY environment variable, then rerun setup.In terminal:unset DISPLAY./setup.sh
In the event of a an unexpected server shutdown, the incremental save operation may be incorrectly reported as being successful, if it is associated with a offline configuration update.	N/A
In some instances a Database Backup that is restored on a different machine the BI publisher may not be re-registered.	The BI publisher needs to be re-registered.
Deletion of a top level element in an Offline Config that has has multiple operations within the same user session (add/delete) on sub-elements will cause a failure.	Remove the changes that are conflicting.
Adding a hip-ip-list for a dual stack referencing a network-interface does not prompt for the family in the Offline Config.	Not available for Offline config.

Description	Workaround
In some elements where cascade delete is required on an Offline Config, the next update to the device may have issues.	In Offline config, avoid deletions with references to other variables.
HDR CSV files that are not deleted from the collected folder after being detected may prevent subsequent processing of the data files in that folder. This typically happens if there are permission issues related to the collected folder for 'nncentral' user.	Delete the files which are not deleted from the collected folder and ensure the permissions for the file system are correct.
Report Manager Backup and Restore of the database may fail for HDR data collected from multiple devices with a large number of configuration elements.	Reduce the number of devices or HDR groups that are being collected.
The x and y axis labels for BI Publisher reports does not render properly in Google Chrome	Use a different browser for BI Publisher reports.

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Session Delivery Manager Release 7.4M1

Introduction

The *Oracle Communications Session Delivery Manager Release Notes* provide the following information about this release:

- Overview
- Installation, Database Migration, Patch Management and Cluster Setup
- Session Delivery Manager Release 7.4M1 Media
- Platforms Supported
- Device Releases Supported
- New features in 7.4M1
- Problems Resolved
- Known Issues
- Limitations

Overview

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Trunk Manager Hardware Support

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Installation, Database Migration, Patch Management, and Cluster Setup

GA and Maintenance Releases

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Patch Releases and Patch Management Tool

You do not need to perform a new installation for patch releases. Please consult the *Installing Session Delivery Manager Patches* chapter of the *Session Delivery Manager Installation Guide, Version 7.4* for more information on the patch management tool.

Cluster Setup

Members of a SDM cluster must be geographically co-located. For more information on setting up a cluster, consult the *Session Delivery Manager High Availability Guide, Version 7.4*.

Distribution Media

The following files are available for SDM Release 7.4M1:

Document Title	File Name	Description
N/A	NNC74M1OracleLinux63_64bit.tar. gz	Installation file for Oracle Linux v6.3+ 64 bit
N/A	NNC74M1RHEL63_64bit.tar.gz	Installation file for RedHat Linux v6.3+ 64 bit
N/A	NNC_OL6.5_1_OVM.tar.gz	OVM template for deploying Session Delivery Manager on virtual machines
N/A	WSClassicClientNNC74.zip	Classic EMS Northbound SOAP client libraries and examples
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- CPU: 4-core 2.1 GHz processor or better
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- 195 GB hard drive minimum, 300 GB recommended
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- Oracle Linux 6.3, 6.4, 6.5 64-bit
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Device Releases Supported

Session Delivery Manager Release 7.4M1 supports the following versions of Acme Packet OS software. Versions new to this release are in **bold text**.

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C/CX6.0.0M5, C/CX6.0.0M6, C/CX6.0.0M7, C/CX6.0.0M8

SC/SCX6.1.0M2, SC/SCX6.1.0M3, SC/SCX6.1.0M4, SC/SCX6.1.0M5, SC/SCX6.1.0M6, SC/SCX6.1.0M7, SC/SCX6.1.0M8, SC/SCX6.1.0M9, SC/SCX6.1.0M10, SC/SCX6.1.0M11

SC/SCX6.2.0, SC/SCX6.2.0M1, SC/SCX6.2.0M2, SC/SCX6.2.0M3, SC/SCX6.2.0M4, SC/SCX6.2.0M5, SC/SCX6.2.0M6, SC/SCX6.2.0M7, SC/SCX6.2.0M8, SC/SCX6.2.0M9, SC/SCX6.2.0M10, SC/SCX6.2.0M11, SC/SCX6.2.0M12

SC/SCX6.2.1F1, SC/SCX6.2.1F2, SC/SCX6.2.1, SC/SCX6.2.1M1

SCX6.2.3

SCX6.2.5F1

SCX6.3.0F1, SCX6.3.0F2, SCX6.3.0, SCX6.3.0M1, SCX6.3.0M2, SCX6.3.0M3, SCX6.3.0M4, SCX6.3.0M5

SCX6.3.3F1, SCX6.3.3F2, SCX6.3.3F3, SCX6.3.3, SCX6.3.3M1, SCX6.3.3M2, SCX6.3.3M3

SCX6.3.5F1, SCX6.3.5p4, SCX6.3.5M1

SCX6.3.6F1

SCX6.3.7F1 SCX6.3.7F2, SCX6.3.7F3, SCX6.3.7, SCX6.3.7M1, SCX6.3.7M2

SCX6.3.9F1, SCX6.3.9, SCX6.3.9M1, SCX/Z6.3.9M2, SCX/Z6.3.9M3, SCX/z6.3.9M4

SCX/Z6.3.15, SCX/Z6.3.15M1, SCX/Z6.3.15M2

SCX6.4.0, SCX6.4.0M1, SCX6.4.0M2, SCX6.4.0M3, SCX6.4.0M4

SCX6.4.6F1, SCX6.4.6F2, SCX6.4.6F3, SCX6.4.6F4

SCZ7.0.2F2

SCZ7.0.9F1

SCZ7.1.2M2

SCZ7.1.5

SCZ7.2.0

LCX1.0, LCX1.1.3F1, LCX1.1.3F3, LCX1.1.3, LCX1.1.3M1, LCX1.1.3M3

LCX1.5.0

PCX1.0F1

DCX1.0F1, DCX1.0F2, DCX1.0.0, DCX1.0.0M1

DCZ2.0.0, DCZ2.0.0M1

DCZ2.1.0, DCZ2.1.0M1, DCZ2.1.0M2

DCZ2.2.0

MCX1.2F2, MCX1.2

MCX2.0.0M1, MCX2.0.0M1

MCX3.0.0F1, MCX3.0.0, MCX3.0.0M1, MCX3.0.0p2, MCX3.0.0M2

ECX/Z6.4F1, ECX/Z6.4.0M1

ECX6.3.7M1

ECX/Z6.4.0M2, ECX/Z6.4.0M3

D-Series

SD7.0.0, SD7.0.0M1, SD7.0.0M2, SD7.0.0M3, SD7.0.0M4, SD7.0.0M5, SD7.0.0M6, SD7.0.0M7, SD7.0.0M8, SD7.0.0M9, SD7.0.0M10, SD7.0.0M11, SD7.0.0M12

SD7.0.2F1

SD7.1.0, SD7.1.0M1, SD7.1.0M2, SD7.1.0M3, SD7.1.0M4, SD7.1.0M5, SD7.1.0M6

SD7.2.0F1, SD7.2.0, SD7.2.0M1, SD7.2.0M2

SD7.2.3F2,SD7.2.3F3

New Features in Release 7.4M1

This section describes new features in Session Delivery Manager Release 7.4M1.

Application Orchestrator

The Oracle Communications Application Orchestrator (AO) manages the virtual network function (VNF) life-cycle and provides a central location for integrating and managing multiple virtualization infrastructure management (VIM) systems.

For information on using Application Orchestrator, see the *Application Orchestrator Release 7.4M1 User Guide*.

Problems Resolved

The following table lists the problems resolved in Session Delivery Manager Release 7.4M1:

Description
User cannot add a Data Variable to a third-layer sub-element. For Example: An Element Rule in Sip Manipulation.
When specifying a Data Variable, "name" is a reserved word and cannot be used as an identifier.
Deletion of a top level element in an Offline Config that has multiple operations within the same user session (add/delete) on sub-elements will cause a failure.

Description
Adding a hip-ip-list for a dual stack referencing a network-interface does not prompt for the family in the Offline Config.
In some elements where cascade delete is required on an Offline Config, the next update to the device may have issues.
HDR CSV files that are not deleted from the collected folder after being detected may prevent subsequent processing of the data files in that folder. This typically happens if there are permission issues related to the collected folder for 'nncentral' user.

Known Issues

The following table lists Session Delivery Manager Release 7.4M1 known issues:

Description	Workaround
When using the multi-device selection option, the reports rendered for multiple devices, only displays the first device in the header. However, the statistics rendered will contain all values for the selected devices.	N/A
The charts in a canned report are inter-linked. The filter for a time value displayed for X-axis does not work in this release. If the user clicks on a data point in one chart, the other charts displays 'No Data Available'	N/A
The daily reports shows values based on the epoch time.	N/A
HDR data collection may stop as of release SCZ712M2 if the collect-config element is modified after the push-receiver has already been configured.	To correct the issue, modify the push-receiver in SDM and perform a save-activate on the device.
An offline config that has been created for a device which is part of a HA pair cannot be used for the same devices if they are no longer used as a HA pair, but rather as individual devices.	N/A
Some of the hourly reports may take several minutes to render	N/A
The SAG and LRT values cannot be specified with more than 23 characters.	N/A
On some systems, it is possible that setup.sh will hang while checking library dependencies.	Unset the DISPLAY environment variable, then rerun setup.In terminal:unset DISPLAY./setup.sh
In the event of a an unexpected server shutdown, the incremental save operation may be incorrectly reported as being successful, if it is associated with a offline configuration update.	N/A
In some instances a Database Backup that is restored on a different machine the BI publisher may not be re-registered.	The BI publisher needs to be re-registered.
Report Manager Backup and Restore of the database may fail for HDR data collected from multiple devices with a large number of configuration elements.	Reduce the number of devices or HDR groups that are being collected.

Description	Workaround
The x and y axis labels for BI Publisher reports does not render properly in Google Chrome	Use a different browser for BI Publisher reports.
Deletion of elements with several dependencies may fail with a validation error when trying to save to the device.	Undo the changes caused by the deletion and manually delete all of the incoming/outgoing references that failed validation.
Validation error for offline config may show up multiple times in the logs.	N/A

3

Session Delivery Manager Release 7.4M2

Introduction

The *Oracle Communications Session Delivery Manager Release Notes* provide the following information about this release:

- Overview
- Installation, Database Migration, Patch Management and Cluster Setup
- Session Delivery Manager Release 7.4M2 Media
- Platforms Supported
- Device Releases Supported
- New features in 7.4M2
- Problems Resolved
- Known Issues
- Limitations

Overview

Oracle Communication's Session Delivery Manager provides an advanced framework for provisioning, managing, and monitoring session delivery networks. Session Delivery Manager has an advanced architecture, called Service Oriented Architecture (SOA), which provides such features as increased scalability using load balancing across clustered servers, the ability to load Session Delivery Manager configurations on-demand, and a rich thin-client interface. You can use the enhanced user interface to access such services as Element Manager for configuring Oracle Communications SBCs or Route Manager for configuring LRTs on Oracle Communications SBCs.

Session Delivery Manager also includes a dashboard summary view of key performance indicators for the managed devices and provides three different views into Oracle Communications SBC configuration elements: Default, List, and ACLI.

The OVM template available with this release is Oracle Linux 6.5 with bash-4.1.2-15.el6_5.2.x86_64.rpm. This fixes the following security vulnerabilities referenced by CVE-2014-7169, CVE-2014-6271, CVE-2014-7186, CVE-2014-7187 and CVE-2014-6278.

Apply the latest Oracle Linux bash patches as they become available to fix the remaining vulnerabilities.

Hardware Support

The Session Delivery Manager supports the following hardware:

- AP 1100
- AP 2600
- AP 3800
- AP 3810
- AP 3820
- AP 4250
- AP 4500
- AP 4600
- AP 6100
- AP 6300
- AP 7000
- AP 7250
- AP 9200
- AP 17350
- AP Enterprise Session Director - Server Edition
- AP Enterprise Session Director - Virtual Machine Edition

Trunk Manager Hardware Support

The Trunk Manager application supports the following hardware:

- AP 3800
- AP 4500
- AP Enterprise Session Director - Server Edition
- AP Enterprise Session Director - Virtual Machine Edition

Installation, Database Migration, Patch Management, and Cluster Setup

GA and Maintenance Releases

For SDM installation and database migration instructions for standalone servers or servers in a cluster, consult the *Session Delivery Manager Installation Guide, Version 7.4*.

Patch Releases and Patch Management Tool

You do not need to perform a new installation for patch releases. Please consult the *Installing Session Delivery Manager Patches* chapter of the *Session Delivery Manager Installation Guide, Version 7.4* for more information on the patch management tool.

Cluster Setup

Members of a SDM cluster must be geographically co-located. For more information on setting up a cluster, consult the *Session Delivery Manager High Availability Guide, Version 7.4*.

Distribution Media

The following files are available for SDM Release 7.4M2:

Document Title	File Name	Description
N/A	NNC74M2OracleLinux63_64bit.tar.gz	Installation file for Oracle Linux v6.3+ 64 bit
N/A	NNC74M2RHEL63_64bit.tar.gz	Installation file for RedHat Linux v6.3+ 64 bit
N/A	NNC_OL6.5_1_OVM.tar.gz	OVM template for deploying Session Delivery Manager on virtual machines
N/A	WSClassicClientNNC74.zip	Classic EMS Northbound SOAP client libraries and examples
N/A	CXFClientNNC74.zip	CFX Northbound SOAP client libraries and examples for Java 7
N/A	CXFClientNNC74JDK1.6.zip	CFX Northbound SOAP client libraries and examples for Java 6
Session Delivery Manager 7.4 Installation Guide	sdm_74_installation.pdf	Installation guide that includes graphical and text mode installation information
Session Delivery Manager 7.4 Release Notes	sdm_74_releasenotes.pdf	Contains information specific to this Session Delivery Manager release
Session Delivery Manager 7.4 Administration Guide	sdm_74_administration.pdf	Guide with detailed information about security administration, creating new users and new user groups, and setting group-based authorization
Session Delivery Manager 7.4 High Availability Guide	sdm_74_haguide.pdf	Guide with detailed information about Session Delivery Manager High Availability (HA) and the HA cluster
Session Delivery Manager 7.4 Quick-Start Guide	sdm_74_qsg.pdf	Guide with a brief description of the GUI, along with information on how to add a device and perform basic configuration tasks
Session Delivery Manager 7.4 Core Functionality Guide	sdm_74_core.pdf	Guide with detailed information about using the GUI and managing devices
Session Delivery Manager 7.4 REST API Guide	sdm_7.4_restapi.pdf	Guide with full descriptions of the individual interface definitions that make up the REST Application Programming Interface (API)
Session Element Manager 7.4 User Guide	sem_74_userguide.pdf	Guide with detailed information about Session Delivery Manager's Element Manager and describes the dashboard summary view, audit log, fault, and performance
Session Element Manager 7.4 SOAP XML API Guide	sem_74_soapxmlapi.pdf	Guide with full descriptions of the individual interface definitions that make up the SOAP XML

Document Title	File Name	Description
		Application Programming Interface (API)
Session Route Manager 7.4 User Guide	rtm_74_userguide.pdf	Guide with detailed information about centrally automating the management and distribution of routing data
Session Report Manager 7.4 Installation Guide	rpm_74_installation.pdf	Provides instructions for installation and configuration of Report Manager components, including BI Publisher and Oracle DB.
Session Report Manager 7.4 User Guide	rpm_74_userguide.pdf	Guide with detailed information about generating reports using BI Publisher and the Session Report Manager.
Enterprise Trunk Manager Configuration Guide - Enterprise	etm_74_entconfiguration.pdf	Contains Customer information for acessing the SIP Trunk Xpress Portal and configuring the E-SBC to connect to the SP-SBC, and for connecting to the SIP Trunk established by the Service Provider.
Enterprise Trunk Manager Configuration Guide - Service Provider	etm_74_spconfiguration.pdf	Guide with detailed information for installing NNC and Trunk Manager. Also contains Service Provider information for setting up a SP-SBC, E-SBC and a SIP Trunk.
Enterprise Trunk Manager Quick Start Guide (E-SBC Bootstrap-only Mode)	etm_74_qsgbootstreap.pdf	Provides a five-step instruction for setting up a SIP Trunk between the SP-SBC and the E-SBC. This guide is for a non-SIP Session Manager (non-SIPSM) version of Trunk Manager (displays a limited menu of options).
Enterprise Trunk Manager Quick Start Guide (Full Mode)	etm_74_qsgfull.pdf	Provides a five-step instruction for setting up a SIP Trunk between the SP-SBC and the E-SBC. This guide is for the SIP Session Manager (SIPSM) enabled version of Trunk Manager (displays a full menu of options).
N/A	MIBs_NNC74M2.zip	Contains the latest ap-ems.mib and ap-nnc.mib. See description below.

MIBs Package for Session Delivery Manager

The ap-nnc.mib and ap-ems.mib provide SNMP support for Session Delivery Manager purposes. MIBs .zip files containing all .mib files are distributed along with the Acme Packet OS software version running on your device(s). These packages may not contain the latest version of ap-nnc.mib and ap-ems.mib.

Included on the Session Delivery Manager distribution media is a .zip file titled MIBs_NNCXXX.zip containing the latest ap-nnc.mib and ap-ems.mib. The ap-nnc.mib and ap-ems.mib contained in this and future Session Delivery

Manager distributions supersedes previous versions, including the ap-nnc.mib and ap-ems.mib released with your Acme Packet OS software.

Platforms Supported

Oracle has certified the following hardware and software platforms, and client requirements for use with Session Delivery Manager Release 7.4M2:

Linux

- CPU: 4-core 2.1 GHz processor or better
- 16 GB RAM minimum, 24 GB RAM recommended
- 195 GB hard drive minimum, 300 GB recommended
- Oracle Linux 6.3 64-bit OVM Template
- Oracle Linux 6.3, 6.4, 6.5 64-bit
- Red Hat Linux 6.3, 6.4, 6.5 64-bit
- CentOS 6.3, 6.4, 6.5 64-bit

Device Releases Supported

Session Delivery Manager Release 7.4M2 supports the following versions of Acme Packet OS software. Versions new to this release are in **bold text**.

C/CX-Series

C/CX6.0.0M5, C/CX6.0.0M6, C/CX6.0.0M7, C/CX6.0.0M8

SC/SCX6.1.0M2, SC/SCX6.1.0M3, SC/SCX6.1.0M4, SC/SCX6.1.0M5, SC/SCX6.1.0M6, SC/SCX6.1.0M7, SC/SCX6.1.0M8, SC/SCX6.1.0M9, SC/SCX6.1.0M10, SC/SCX6.1.0M11

SC/SCX6.2.0, SC/SCX6.2.0M1, SC/SCX6.2.0M2, SC/SCX6.2.0M3, SC/SCX6.2.0M4, SC/SCX6.2.0M5, SC/SCX6.2.0M6, SC/SCX6.2.0M7, SC/SCX6.2.0M8, SC/SCX6.2.0M9, SC/SCX6.2.0M10, SC/SCX6.2.0M11, SC/SCX6.2.0M12

SC/SCX6.2.1F1, SC/SCX6.2.1F2, SC/SCX6.2.1, SC/SCX6.2.1M1, **SCX6.2.1M2**

SCX6.2.3

SCX6.2.5F1

SCX6.3.0F1, SCX6.3.0F2, SCX6.3.0, SCX6.3.0M1, SCX6.3.0M2, SCX6.3.0M3, SCX6.3.0M4, SCX6.3.0M5

SCX6.3.3F1, SCX6.3.3F2, SCX6.3.3F3, SCX6.3.3, SCX6.3.3M1, SCX6.3.3M2, SCX6.3.3M3

SCX6.3.5F1, SCX6.3.5p4, SCX6.3.5M1

SCX6.3.6F1

SCX6.3.7F1 SCX6.3.7F2, SCX6.3.7F3, SCX6.3.7, SCX6.3.7M1, SCX6.3.7M2, **SCX6.3.7M3**

SCX6.3.9F1, SCX6.3.9, SCX6.3.9M1, SCX/Z6.3.9M2, SCX/Z6.3.9M3, SCX/z6.3.9M4

SCX/Z6.3.15, SCX/Z6.3.15M1, SCX/Z6.3.15M2

SCX6.4.0, SCX6.4.0M1, SCX6.4.0M2, SCX6.4.0M3, SCX6.4.0M4, **SCX6.4.0M5**

SCX6.4.6F1, SCX6.4.6F2, SCX6.4.6F3, SCX6.4.6F4, **SCX6.4.6F5**

SCZ7.0.2F2

SCZ7.0.9F1

SCZ7.1.2M2, **SCZ7.1.2M3**

SCZ7.1.5

SCZ7.2.0, **SCZ7.2.0M1**, **SCZ7.2.0M2**

LCX1.0, LCX1.1.3F1, LCX1.1.3F3, LCX1.1.3, LCX1.1.3M1, LCX1.1.3M3

LCX1.5.0

PCX1.0F1

DCX1.0F1, DCX1.0F2, DCX1.0.0, DCX1.0.0M1

DCZ2.0.0, DCZ2.0.0M1

DCZ2.1.0, DCZ2.1.0M1, DCZ2.1.0M2

DCZ2.2.0

MCX1.2F2, MCX1.2

MCX2.0.0M1, MCX2.0.0M1

MCX3.0.0F1, MCX3.0.0, MCX3.0.0M1, MCX3.0.0p2, MCX3.0.0M2

ECX/Z6.4F1, ECX/Z6.4.0M1

ECX6.3.7M1, **ECX6.3.7M3**

ECX/Z6.4.0M2, ECX/Z6.4.0M3, **ECX/Z6.4.0M4**

ECZ7.1.0

ECZ7.2.0

D-Series

SD7.0.0, SD7.0.0M1, SD7.0.0M2, SD7.0.0M3, SD7.0.0M4, SD7.0.0M5, SD7.0.0M6, SD7.0.0M7, SD7.0.0M8, SD7.0.0M9, SD7.0.0M10, SD7.0.0M11, SD7.0.0M12

SD7.0.2F1

SD7.1.0, SD7.1.0M1, SD7.1.0M2, SD7.1.0M3, SD7.1.0M4, SD7.1.0M5, SD7.1.0M6

SD7.2.0F1, SD7.2.0, SD7.2.0M1, SD7.2.0M2, **SD7.2.0M3**

SD7.2.3F2,SD7.2.3F3

New Features in Release 7.4M2

This section describes new features in Session Delivery Manager Release 7.4M2.

REST API v0.0

The OCSDM Rest API provides a standard HTTP method of configuring and operating applications within SDM. The current release is limited to Application Orchestrator functionality.

For information on using the REST API, see the *REST API Release 7.4M2 User Guide*.

SOAP Northbound Alarm Sync API

The Northbound Alarm sync forwards traps stored in the OCSDM system to a Network Management System.

For information on using the Northbound Alarm Sync API, see the *Web Services Release 7.4 User Guide*.

Problems Resolved

The following table lists the problems resolved in Session Delivery Manager Release 7.4M2:

Description
Remaining connection slots are reserved for non-replication superuser connections.
SAG and LRT values not accepted on NNC.
Scheduling on-demand, one-time backup, results in daily backup being run.
Difficulty with generating graphs on NNC.
NNC not displaying drop down list to add Session Agents in a group for NN3820.
Target devices are not valid HA pair with SOAP API.
No security manager; RMI class loader disabled with the SOAP API.
Need a drop down for Next hop configuration for SCX6.3.7M1.
Delay in presenting Fault Manager Events.
Security vulnerabilities in bash referenced by CVE-2014-7169, CVE-2014-6271, CVE-2014-7186, CVE-2014-7187 and CVE-2014-6278.

Known Issues

The following table lists Session Delivery Manager Release 7.4M2 known issues:

Description	Workaround
When using the multi-device selection option, the reports rendered for multiple devices, only displays the first device in the header. However, the statistics rendered will contain all values for the selected devices.	N/A
The charts in a canned report are inter-linked. The filter for a time value displayed for X-axis does not work in this release. If the user clicks on a data point in one chart, the other charts displays 'No Data Available'	N/A
The daily reports shows values based on the epoch time.	N/A
HDR data collection may stop as of release SCZ712M2 if the collect-config element is modified after the push-receiver has already been configured.	To correct the issue, modify the push-receiver in SDM and perform a save-activate on the device.
Some of the hourly reports may take several minutes to render	N/A
On some systems, it is possible that setup.sh will hang while checking library dependencies.	Unset the DISPLAY environment variable, then rerun setup.In terminal:unset DISPLAY./setup.sh
In the event of a an unexpected server shutdown, the incremental save operation may be incorrectly reported as being successful, if it is associated with a offline configuration update.	N/A

Description	Workaround
In some instances a Database Backup that is restored on a different machine the BI publisher may not be re-registered.	The BI publisher needs to be re-registered.
The x and y axis labels for BI Publisher reports does not render properly in Google Chrome	Use a different browser for BI Publisher reports.
NNC had issues accepting single quote in attribute values.	To enter single quote in an attribute value, escape it with a "\". This behaves like ACLI.
If a REST add/update attribute is misspelled, OCSDM still returns a success code.	N/A.
Bash vulnerability Issues.	Apply the latest oracle linux patches for bash when available.

On servers where Report Manager is installed alongside OCSDM, the default 'nncentral' user password for the oracle reporting DB expires every 6 months. Upon expiration, the nightly backup and restore for Report Manager fails.	1. Change the password for the 'nncentral' user.
	   a. `cd $ORACLE_HOME/bin`
	   b. `./sqlplus`
	   c. `nncentral/ <password>@AcmeBIPublisher`
	2. Go to the Register BI Publisher page of Report Manager and change the Oracle DB password.

4

Session Delivery Manager Release 7.4M3

Introduction

The *Oracle Communications Session Delivery Manager Release Notes* provide the following information about this release:

- Overview
- Installation, Database Migration, Patch Management and Cluster Setup
- Session Delivery Manager Release 7.4M3 Media
- Platforms Supported
- Device Releases Supported
- New features in 7.4M3
- Problems Resolved
- Known Issues
- Limitations

Overview

Oracle Communication's Session Delivery Manager provides an advanced framework for provisioning, managing, and monitoring session delivery networks. Session Delivery Manager has an advanced architecture, called Service Oriented Architecture (SOA), which provides such features as increased scalability using load balancing across clustered servers, the ability to load Session Delivery Manager configurations on-demand, and a rich thin-client interface. You can use the enhanced user interface to access such services as Element Manager for configuring Oracle Communications SBCs or Route Manager for configuring LRTs on Oracle Communications SBCs.

Session Delivery Manager also includes a dashboard summary view of key performance indicators for the managed devices and provides three different views into Oracle Communications SBC configuration elements: Default, List, and ACLI.

The OVM template available with this release is Oracle Linux 6.5 with bash-4.1.2-15.el6_5.2.x86_64.rpm. This fixes the following security vulnerabilities referenced by CVE-2014-7169, CVE-2014-6271, CVE-2014-7186, CVE-2014-7187 and CVE-2014-6278.

Apply the latest Oracle Linux bash patches as they become available to fix the remaining vulnerabilities.

Hardware Support

The Session Delivery Manager supports the following hardware:

- AP 1100
- AP 2600
- AP 3800
- AP 3810
- AP 3820
- AP 4250
- AP 4500
- AP 4600
- AP 6100
- AP 6300
- AP 7000
- AP 7250
- AP 9200
- AP 17350
- AP Enterprise Session Director - Server Edition
- AP Enterprise Session Director - Virtual Machine Edition

Trunk Manager Hardware Support

The Trunk Manager application supports the following hardware:

- AP 3800
- AP 4500
- AP Enterprise Session Director - Server Edition
- AP Enterprise Session Director - Virtual Machine Edition

Installation, Database Migration, Patch Management, and Cluster Setup

GA and Maintenance Releases

For SDM installation and database migration instructions for standalone servers or servers in a cluster, consult the *Session Delivery Manager Installation Guide, Version 7.4*.

Patch Releases and Patch Management Tool

You do not need to perform a new installation for patch releases. Please consult the *Installing Session Delivery Manager Patches* chapter of the *Session Delivery Manager Installation Guide, Version 7.4* for more information on the patch management tool.

Cluster Setup

Members of a SDM cluster must be geographically co-located. For more information on setting up a cluster, consult the *Session Delivery Manager High Availability Guide, Version 7.4*.

Distribution Media

The following files are available for SDM Release 7.4M3:

Document Title	File Name	Description
N/A	NNC74M3OracleLinux63_64bit.tar.gz	Installation file for Oracle Linux v6.3+ 64 bit
N/A	NNC74M3RHEL63_64bit.tar.gz	Installation file for RedHat Linux v6.3+ 64 bit
N/A	NNC_OL6.5_1_OVM.tar.gz	OVM template for deploying Session Delivery Manager on virtual machines
N/A	WSClassicClientNNC74.zip	Classic EMS Northbound SOAP client libraries and examples
N/A	CXFClientNNC74.zip	CFX Northbound SOAP client libraries and examples for Java 7
N/A	CXFClientNNC74JDK1.6.zip	CFX Northbound SOAP client libraries and examples for Java 6
Session Delivery Manager 7.4 Installation Guide	sdm_74_installation.pdf	Installation guide that includes graphical and text mode installation information
Session Delivery Manager 7.4 Release Notes	sdm_74_releasenotes.pdf	Contains information specific to this Session Delivery Manager release
Session Delivery Manager 7.4 Administration Guide	sdm_74_administration.pdf	Guide with detailed information about security administration, creating new users and new user groups, and setting group-based authorization
Session Delivery Manager 7.4 High Availability Guide	sdm_74_haguide.pdf	Guide with detailed information about Session Delivery Manager High Availability (HA) and the HA cluster
Session Delivery Manager 7.4 Quick-Start Guide	sdm_74_qsg.pdf	Guide with a brief description of the GUI, along with information on how to add a device and perform basic configuration tasks
Session Delivery Manager 7.4 Core Functionality Guide	sdm_74_core.pdf	Guide with detailed information about using the GUI and managing devices
Session Delivery Manager 7.4 REST API Guide	sdm_7.4_restapi.pdf	Guide with full descriptions of the individual interface definitions that make up the REST Application Programming Interface (API)
Session Element Manager 7.4 User Guide	sem_74_userguide.pdf	Guide with detailed information about Session Delivery Manager's Element Manager and describes the dashboard summary view, audit log, fault, and performance
Session Element Manager 7.4 SOAP XML API Guide	sem_74_soapxmlapi.pdf	Guide with full descriptions of the individual interface definitions that make up the SOAP XML

Document Title	File Name	Description
		Application Programming Interface (API)
Session Route Manager 7.4 User Guide	rtm_74_userguide.pdf	Guide with detailed information about centrally automating the management and distribution of routing data
Session Report Manager 7.4 Installation Guide	rpm_74_installation.pdf	Provides instructions for installation and configuration of Report Manager components, including BI Publisher and Oracle DB.
Session Report Manager 7.4 User Guide	rpm_74_userguide.pdf	Guide with detailed information about generating reports using BI Publisher and the Session Report Manager.
Enterprise Trunk Manager Configuration Guide - Enterprise	etm_74_entconfiguration.pdf	Contains Customer information for acessing the SIP Trunk Xpress Portal and configuring the E-SBC to connect to the SP-SBC, and for connecting to the SIP Trunk established by the Service Provider.
Enterprise Trunk Manager Configuration Guide - Service Provider	etm_74_spconfiguration.pdf	Guide with detailed information for installing NNC and Trunk Manager. Also contains Service Provider information for setting up a SP-SBC, E-SBC and a SIP Trunk.
Enterprise Trunk Manager Quick Start Guide (E-SBC Bootstrap-only Mode)	etm_74_qsgbootstreap.pdf	Provides a five-step instruction for setting up a SIP Trunk between the SP-SBC and the E-SBC. This guide is for a non-SIP Session Manager (non-SIPSM) version of Trunk Manager (displays a limited menu of options).
Enterprise Trunk Manager Quick Start Guide (Full Mode)	etm_74_qsgfull.pdf	Provides a five-step instruction for setting up a SIP Trunk between the SP-SBC and the E-SBC. This guide is for the SIP Session Manager (SIPSM) enabled version of Trunk Manager (displays a full menu of options).
N/A	MIBs_NNC74M2.zip	Contains the latest ap-ems.mib and ap-nnc.mib. See description below.

MIBs Package for Session Delivery Manager

The ap-nnc.mib and ap-ems.mib provide SNMP support for Session Delivery Manager purposes. MIBs .zip files containing all .mib files are distributed along with the Acme Packet OS software version running on your device(s). These packages may not contain the latest version of ap-nnc.mib and ap-ems.mib.

Included on the Session Delivery Manager distribution media is a .zip file titled MIBs_NNCXXX.zip containing the latest ap-nnc.mib and ap-ems.mib. The ap-nnc.mib and ap-ems.mib contained in this and future Session Delivery

Manager distributions supersedes previous versions, including the ap-nnc.mib and ap-ems.mib released with your Acme Packet OS software.

Platforms Supported

Oracle has certified the following hardware and software platforms, and client requirements for use with Session Delivery Manager Release 7.4M3:

Linux

- CPU: 4-core 2.1 GHz processor or better
- 16 GB RAM minimum, 24 GB RAM recommended
- 195 GB hard drive minimum, 300 GB recommended
- Oracle Linux 6.3 64-bit OVM Template
- Oracle Linux 6.3, 6.4, 6.5 64-bit
- Red Hat Linux 6.3, 6.4, 6.5 64-bit
- CentOS 6.3, 6.4, 6.5 64-bit

Device Releases Supported

Session Delivery Manager Release 7.4M3 supports the following versions of Acme Packet OS software. Versions new to this release are in **bold text**.

C/CX-Series

C/CX6.0.0M5, C/CX6.0.0M6, C/CX6.0.0M7, C/CX6.0.0M8

SC/SCX6.1.0M2, SC/SCX6.1.0M3, SC/SCX6.1.0M4, SC/SCX6.1.0M5, SC/SCX6.1.0M6, SC/SCX6.1.0M7, SC/SCX6.1.0M8, SC/SCX6.1.0M9, SC/SCX6.1.0M10, SC/SCX6.1.0M11

SC/SCX6.2.0, SC/SCX6.2.0M1, SC/SCX6.2.0M2, SC/SCX6.2.0M3, SC/SCX6.2.0M4, SC/SCX6.2.0M5, SC/SCX6.2.0M6, SC/SCX6.2.0M7, SC/SCX6.2.0M8, SC/SCX6.2.0M9, SC/SCX6.2.0M10, SC/SCX6.2.0M11, SC/SCX6.2.0M12

SC/SCX6.2.1F1, SC/SCX6.2.1F2, SC/SCX6.2.1, SC/SCX6.2.1M1, SCX6.2.1M2

SCX6.2.3

SCX6.2.5F1

SCX6.3.0F1, SCX6.3.0F2, SCX6.3.0, SCX6.3.0M1, SCX6.3.0M2, SCX6.3.0M3, SCX6.3.0M4, SCX6.3.0M5

SCX6.3.3F1, SCX6.3.3F2, SCX6.3.3F3, SCX6.3.3, SCX6.3.3M1, SCX6.3.3M2, SCX6.3.3M3

SCX6.3.5F1, SCX6.3.5p4, SCX6.3.5M1

SCX6.3.6F1

SCX6.3.7F1 SCX6.3.7F2, SCX6.3.7F3, SCX6.3.7, SCX6.3.7M1, SCX6.3.7M2, SCX6.3.7M3

SCX6.3.9F1, SCX6.3.9, SCX6.3.9M1, SCX/Z6.3.9M2, SCX/Z6.3.9M3, SCX/Z6.3.9M4, **SCX/Z6.3.9M5**

SCX/Z6.3.15, SCX/Z6.3.15M1, SCX/Z6.3.15M2, **SCX/Z6.3.15M3**

SCX6.4.0, SCX6.4.0M1, SCX6.4.0M2, SCX6.4.0M3, SCX6.4.0M4, SCX6.4.0M5

SCX6.4.6F1, SCX6.4.6F2, SCX6.4.6F3, SCX6.4.6F4, SCX6.4.6F5

SCZ7.0.2F2

SCZ7.0.9F1

SCZ7.1.2M2, SCZ7.1.2M3

SCZ7.1.5, **SCZ7.1.5M1**

SCZ7.2.0, SCZ7.2.0M1, SCZ7.2.0M2

SCZ7.2.5

LCX1.0, LCX1.1.3F1, LCX1.1.3F3, LCX1.1.3, LCX1.1.3M1, LCX1.1.3M3

LCX1.5.0

PCX1.0F1

DCX1.0F1, DCX1.0F2, DCX1.0.0, DCX1.0.0M1

DCZ2.0.0, DCZ2.0.0M1

DCZ2.1.0, DCZ2.1.0M1, DCZ2.1.0M2

DCZ2.2.0

DCZ2.3.0

MCX1.2F2, MCX1.2

MCX2.0.0M1, MCX2.0.0M1

MCX3.0.0F1, MCX3.0.0, MCX3.0.0M1, MCX3.0.0p2, MCX3.0.0M2

ECX/Z6.4F1, ECX/Z6.4.0M1

ECX6.3.7M1, ECX6.3.7M3

ECX/Z6.4.0M2, ECX/Z6.4.0M3, ECX/Z6.4.0M4, **ECX/Z6.4.0M5**

ECZ7.1.0

ECZ7.2.0

D-Series

SD7.0.0, SD7.0.0M1, SD7.0.0M2, SD7.0.0M3, SD7.0.0M4, SD7.0.0M5, SD7.0.0M6, SD7.0.0M7, SD7.0.0M8, SD7.0.0M9, SD7.0.0M10, SD7.0.0M11, SD7.0.0M12

SD7.0.2F1

SD7.1.0, SD7.1.0M1, SD7.1.0M2, SD7.1.0M3, SD7.1.0M4, SD7.1.0M5, SD7.1.0M6

SD7.2.0F1, SD7.2.0, SD7.2.0M1, SD7.2.0M2, SD7.2.0M3

SD7.2.3F2,SD7.2.3F3

New Features in Release 7.4M3

This section describes new features in Session Delivery Manager Release 7.4M3.

AP 1100 Hardware Support

OCSDM adds support the AP 1100 Enterprise SBC appliance.

☞ **Note:** AP 1100 support is offered only if TDM is not enabled on the device.

Disable SSL v3 for OCSDM Products

In response to the POODLE vulnerability of SSL v3, Oracle Communications recommends that all OCSDM devices use TLS when enabling HTTPS connections.

For instructions on how to disable SSL v3, see the *Session Delivery Manager Release 7.4 Maintenance Release Guide*.

Problems Resolved

The following table lists the problems resolved in Session Delivery Manager Release 7.4M3:

Description
Loading devices in SDM fails if a dot or underscore is added to RedundancyConfig/RedundancyPeer/@name and sipNatConfig/DomainSuffix via the ACLI interface.

Known Issues

The following table lists Session Delivery Manager Release 7.4M3 known issues:

Description	Workaround
When using the multi-device selection option, the reports rendered for multiple devices, only displays the first device in the header. However, the statistics rendered will contain all values for the selected devices.	N/A
The charts in a canned report are inter-linked. The filter for a time value displayed for X-axis does not work in this release. If the user clicks on a data point in one chart, the other charts displays 'No Data Available'	N/A
The daily reports shows values based on the epoch time.	N/A
HDR data collection may stop as of release SCZ712M2 if the collect-config element is modified after the push-receiver has already been configured.	To correct the issue, modify the push-receiver in SDM and perform a save-activate on the device.
Some of the hourly reports may take several minutes to render	N/A
On some systems, it is possible that setup.sh will hang while checking library dependencies.	Unset the DISPLAY environment variable, then rerun setup.In terminal:unset DISPLAY./setup.sh
In the event of a an unexpected server shutdown, the incremental save operation may be incorrectly reported as being successful, if it is associated with a offline configuration update.	N/A
In some instances a Database Backup that is restored on a different machine the BI publisher may not be re-registered.	The BI publisher needs to be re-registered.
The x and y axis labels for BI Publisher reports does not render properly in Google Chrome	Use a different browser for BI Publisher reports.
NNC had issues accepting single quote in attribute values.	To enter single quote in an attribute value, escape it with a "\". This behaves like ACLI.
If a REST add/update attribute is misspelled, OCSDM still returns a success code.	N/A.
Bash vulnerability Issues.	Apply the latest oracle linux patches for bash when available.

Description	Workaround

On servers where Report Manager is installed alongside OCSDM, the default 'nncentral' user password for the oracle reporting DB expires every 6 months. Upon expiration, the nightly backup and restore for Report Manager fails.	1. Change the password for the 'nncentral' user.
	  a. `cd $ORACLE_HOME/bin`
	  b. `./sqlplus`
	  c. `nncentral/`
	    `<password>@AcmeBIPublisher`
	2. Go to the Register BI Publisher page of Report Manager and change the Oracle DB password.

The "compare" tab on Route Manager results in java script errors on IE9.	Use IE11+ to avoid the errors.
For CSM and SLRM release SCZ7.2.5, some HDR groups may cause failure in the provisioning of a collection group on the device.	Choose 'ALL' to select all groups or select only the valid groups for CSM/SLRM configuration types. The invalid groups for CSM are voltage, fan, tempature, and h323-stats. The invalid groups for SLRM are voltage, fan, tempature, h323-stats, and sip-sessions.
Performance Manager does not display data for DCZ230 devices.	Access statistics via the ACLI interface.