

# Oracle® Communications Diameter Signaling Router Release Notes



Release 9.3.0.0.0

G55830-01

April 2026

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

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# Preface

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## Documentation Accessibility

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## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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2. Select **3** for Hardware, Networking and Solaris Operating System Support.
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# What's New in this Guide

This section introduces the documentation updates for Release 9.3.0.0.0.

## Release 9.3.0.0.0 - G55830-01, April 2026

- Added DSR features in the [DSR Features](#) section.
- Added vSTP features in the [vSTP Features](#) section.
- Updated media pack component information in the [Media Pack](#) section.
- Updated the [Load Lineup](#) section.
- Updated the [DSR Security Test Summary](#) section.
- Updated the [Supported Upgrade and Migration Paths](#) section.
- Added DSR resolved bugs in the [DSR](#) section.
- Added vSTP resolved bugs in the [vSTP](#) section.
- Added VNFM resolved bugs in the [VNFM](#) section.
- Added IDIH resolved bugs in the [IDIH](#) section.
- Added ATS resolved bugs in the [ATS](#) section.
- Added UDR resolved bug in the [UDR](#) section.
- Added DSR known bugs in the [DSR](#) section.
- Added vSTP known bugs in the [vSTP](#) section.
- Added IDIH known bug in the [IDIH](#) section.
- Added ATS known bugs in the [ATS](#) section.

# 1

## Introduction

This document provides information about new features and enhancements to the existing features for Oracle Communications Diameter Signaling Router.

It also includes details related to media and documentation pack, feature descriptions, Information on supported hardware baseline, supported upgrade paths. The details of the fixes are included in the Resolved Bug List section. For issues that are not yet addressed, see the Customer Known Bug List.

Release Notes are included in the documentation pack and made available with every software release. For information on how to access key Oracle sites and services, see [My Oracle Support](#).

### 1.1 DSR Overview

Oracle Communications Diameter Signaling Router (DSR) helps communications service providers monetize their network more efficiently to remain competitive in the market. It creates a centralized and secure signaling architecture that enables core networks to grow incrementally and to support increasing service and traffic demands. The distinctive advantages provided by the Oracle Communications Diameter Signaling Router are network scalability, resiliency, interoperability, and security, as well as network visibility. The cloud deployable Oracle Communications Diameter Signaling Router enables service providers to manage Diameter signaling while optimizing network resources, therefore maximizing the return on network and technology investments.

#### Disclaimer

Before installing third-party software on the same server with Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on, you must be aware of the following information:

- Oracle is not responsible for installation, operation, maintenance, and so on, of any non-Oracle distributed software with Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on.
- Additional due diligence, including testing, is recommended to be performed in the lab before deploying non-Oracle software on production sites to avoid potential issues.
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- Oracle Support may require that the customer uninstall the non-Oracle software and reinstall Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on, to recover the system to address any field issue.

# 2

## Virtual Platforms Supported

Virtual DSR is tested and supported only on the following platforms:

- VMware ESXi 8.0 U2
- KVM QEMU 6.2.0, libvirt 8.0.0, and API QEMU 8.0.0
- OpenStack Wallaby

**Note**

BareMetal is not supported from DSR 9.0.0.0.0.

For more information, see *DSR Cloud Benchmarking Guide*.

**Note**

Our benchmarking and performance numbers are based only on the above mentioned platforms. If the customer environment is deployed on any other platform, all issues including compatibility and infrastructure concerns would be the responsibility of the customer. Oracle would only be responsible for application related issues.

# 3

## Feature Descriptions

This chapter describes the features for the 9.3.0.0.0 release.

### 3.1 Release 9.3.0.0.0

This chapter introduces the new features or feature enhancements for DSR, vSTP, VNFM, and UDR.

#### 3.1.1 DSR Features

The following DSR features are implemented in release 9.3.0.0.0:

- **Export All Rules:** Allows users to export all rules from the system to the file management directory. Each rule is saved as a separate xml file containing the mediation version number, rule template definition, provisioned condition values, and provisioned action values. For more information, see *Oracle Communications Diameter Signaling Router Mediation User Guide*.
- **Exporting all Rule Templates:** Allows users to export all rule templates from the system to the file management directory. Each template is saved as an xml file containing the template definition without provisioned data, references to enumeration types and their values, the mediation version number, and related help pages. For more information, see *Oracle Communications Diameter Signaling Router Mediation User Guide*.
- **DSR generating alarms based on Measurement TxAnswerLocalNode:** This feature enhances the capability by introducing real-time monitoring of the TxAnswerLocalNode measurement to detect abnormal scenarios, where DSR generates answer messages locally instead of forwarding requests to peers and raising an alarm as per the configured thresholds. For more information, see *Oracle Communications Diameter Signaling Router Diameter User Guide* and *Oracle Communications Diameter Signaling Router Alarms and KPIs Reference Guide*.
- **TSA Address Limit Increase in DSR:** This feature increases the total number of application servers IP addresses which can be configured in IP Front End (IPFE) TSAs (Target Set Address) across DSR site from 250 to 2048. For more information, see *Oracle Communications Diameter Signaling Router IP Front End User Guide*.
- **Increase Limit in Number of Connections in Throttling Configuration Set:** This feature increase the limit of number of connections which can have message throttling configuration sets configured from 500 to 2500. For more information, see *Oracle Communications Diameter Signaling Router Diameter User Guide*.
- **TACACS+ CLI Authentication:** TACACS+ (Terminal Access Controller Access-Control System Plus) authentication is now supported for DSR Command Line Interface (CLI) users, enabling secure CLI access. For more information, see *Oracle Communications Diameter Signaling Router Operations, Administration, and Maintenance Guide*.
- **MCPTT (Mission Critical Push to Talk) Rx Gateway:** The MCPTT Rx Gateway enhancement introduces updates to existing table and field names within the Rx ShUDR application to support planned integration with the Binding Support Function (BSF), alongside the current Policy and Charging Rules Functionality (PCRF). For more

information, see *Oracle Communications Diameter Signaling Router Rx ShUDR Application User's Guide*.

## 3.1.2 vSTP Features

The following vSTP features are implemented in release 9.3.0.0.0:

- **vSTP HLRR (Home Location Register Router) support with SDS DB:**The HLR (Home Location Register) router feature in vSTP (Virtual Signal Transfer Point) retrieves information from the SDS (Subscriber Data Server) and uses them to route messages to HLRs. This feature is a G-Flex enhancement enabling per-subscriber routing (MSISDN (Mobile Station International Subscriber Directory Number) or IMSI (International Mobile Subscriber Identity)) to the correct HLR network entity, improving load balancing vs fixed number ranges. For more information, see *Oracle Communications vSTP Mobile Number Portability User Guide*, and *Oracle Communications Subscriber Database Server Provisioning Interface User Guide*.
- **MTP Origin-Based Routing (MOBR):** MTP origin based routing provides customers with greater flexibility and control over the vSTP routing mechanisms by enabling network operators to selectively route traffic to the same destination through different networks, depending on various classes and exception routes. For more information, see *Oracle Communications Diameter Signaling Router Virtual Signaling Transfer Point User Guide*.

## 3.1.3 VNFN Features

There are no new features for the release.

## 3.1.4 IDIH Features

There are no IDIH features for the release.

## 3.1.5 UDR Features

The following UDR features are implemented in release 14.3.0.0.0:

There are no UDR features for the release.

# 4

## Media and Documentation

Oracle Communications software is available for electronic download on the Oracle Software Delivery Cloud (OSDC). Documentation is delivered electronically on the Oracle Help Center (OHC). Both the software Media Pack and Documentation Pack are listed in this chapter.

### 4.1 Media Pack

All components available for download from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>) are in the following Media Pack contents tables.

#### Note

This list is accurate at the time of release but is subject to change. See the [Oracle Software Delivery Cloud](#) website for the latest information.

#### 4.1.1 DSR Release 9.3.0.0.0

**Table 4-1 Media Pack Contents for DSR 9.3.0.0.0**

Part Number	Description
V1055877-01	Oracle Communications Diameter Signaling Router 9.3.0.0.0-103.15.0 DIU ISO
V1055878-01	Oracle Communications Diameter Signaling Router 9.3.0.0.0-103.15.0 OVA
V1055879-01	Oracle Communications Diameter Signaling Router 9.3.0.0.0-103.15.0 QCOW2
V1055880-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 9.3.0.0.0-103.15.0 DIU ISO
V1055881-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 9.3.0.0.0-103.15.0 OVA
V1055882-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 9.3.0.0.0-103.15.0 QCOW2
V1055883-01	Oracle Communications Diameter Signaling Router Diameter Security Application 9.3.0.0.0-103.15.0
V1055884-01	Oracle Communications Diameter Signaling Router Steering Of Roaming Application 9.3.0.0.0-103.15.0
V1055885-01	Oracle Communications Diameter Signaling Router Zero Balance Application 9.3.0.0.0-103.15.0
V1055886-01	Oracle Communications Diameter Signaling Router Rx ShUDR Application 9.3.0.0.0-103.15.0
V1055887-01	Oracle Communications Diameter Signaling Router 9.3.0.0.0-103.15.0 MIBs
V1056187-01	Oracle Communications Diameter Signaling Router Automated Test Suite (ATS) 9.3.0.0.0-1.0.5 TGZ

**Table 4-1 (Cont.) Media Pack Contents for DSR 9.3.0.0.0**

Part Number	Description
V1056188-01	Oracle Communications Diameter Signaling Router Automated Test Suite (ATS) 9.3.0.0.0-1.0.5 QCOW2
V1056189-01	Oracle Communications Diameter Signaling Router User Data Repository 14.3.0.0.0-114.64.0 OVA
V1056190-01	Oracle Communications Diameter Signaling Router User Data Repository 14.3.0.0.0-114.64.0 ISO
V1056191-01	Oracle Communications Diameter Signaling Router User Data Repository 14.3.0.0.0-114.64.0 DIU ISO
V1056192-01	Oracle Communications Diameter Signaling Router Virtual Network Functions Manager 6.3.0.0.0-63.5.5 QCOW2
V1056193-01	Oracle Communications Diameter Signaling Router Virtual Network Functions Manager Artifacts 6.3.0.0.0-63.5.5
V1056195-01	Oracle Communications Diameter Signaling Router Integrated Diameter Intelligence Hub for VNFM or Manual Installation on KVM 9.3.0.0.0-93.0
V1056196-01	Oracle Communications Diameter Signaling Router Integrated Diameter Intelligence Hub for Manual Installation on VMware 9.3.0.0.0-93.0

## 4.2 Load Lineup

This section provides information about supported services and ATS for this release.

### 4.2.1 DSR Release 9.3.0.0.0

DSR Release 9.3.0.0.0 contains the following components:

- Application Lineup
  - DSR: 9.3.0.0.0\_103.15.0
  - SDS: 9.3.0.0.0\_103.15.0
  - VNFM: 6.3.0.0.0\_63.5.5
  - ATS: 9.3.0.0.0-1.0.5
  - UDR: 14.3.0.0.0-114.64.0
  - IDIH: 9.3.0.0.0
- Platform Lineup
  - TPD: 8.10.1.11.0-150.28.0
  - Comcol: 8.1.0.32.0-14261
  - Appw: 9.9.3-103.12.0
  - Exgs: 9.9.3-103.12.0

#### UDR Release 14.3.0.0.0

UDR Release 14.3.0.0.0 contains the following components:

- Application Lineup
  - UDR: 14.3.0.0.0-114.64.0

- Platform Lineup
  - TPD: 8.10.1.11.0-150.28.0
  - Comcol: 8.1.0.32.0-14261
  - Appw: 9.9.3-103.12.0
  - Exgs: 9.9.3-103.12.0
  - DPI: 9.3.0.0.0\_103.15.0

## 4.3 Documentation Pack

All documents are available for download from the [Oracle Help Center \(OHC\)](#) site.

**Table 4-2 Documentation Pack Contents**

<b>Release Notes and Licensing Information User Manuals Document Set</b>
Release Notes
Licensing Information User Manual
<b>DSR Planning, Installation, Upgrade, and Disaster Recovery Document Set</b>
DSR Feature Guide
DSR/SDS NOAM Failover User Guide
DCA Feature Activation Procedure
DTLS Feature Activation Procedure
FABR Feature Activation Procedure
Mediation Feature Activation Procedure
PCA Feature Activation Procedure
RBAR Feature Activation Procedure
DSR Network Impact Report
DSR NIR MEALS Data
DSR Security Guide
DSA with UDR User Guide
DSR Security App Using Mediation Example Procedure
Zero Balance Application User Guide
Diameter Signaling Router Rx ShUDR Application User Guide
DSR VM Placement and CPU Socket Pinning Tool
DSR Compliance Matrix
<b>Cloud Installation and Upgrade Document Set</b>
DSR Cloud Installation Guide
DSR Cloud Software Upgrade User Guide
DSR BareMetal to Cloud Migration Guide
DSR Cloud Disaster Recovery Guide
DSR Automated Test Suite (ATS) Installation and User Guide
DSR VNFM Installation and User Guide
VNFM HEAT Templates
DSR Cloud Benchmarking Guide
SDS Cloud Installation Guide
SDS Cloud Disaster Recovery Guide
<b>Diameter Signaling Router Core Document Set</b>

**Table 4-2 (Cont.) Documentation Pack Contents**

DSR Getting Started
Operation, Administration, and Maintenance (OAM) User Guide
Diameter User Guide
MMI API Specification
Communication Agent User Guide
Policy Charging Application User Guide
Mediation User Guide
Range Based Address Resolution (RBAR) User Guide
Full Address Based Resolution (FABR) User Guide
Subscriber Binding Repository (SBR) User Guide
IP Front End (IPFE) User Guide
Diameter Common User Guide
Equipment Identity Register User Guide
Diameter Custom Application (DCA) User Guide
Diameter Custom Application (DCA) Programmer Guide
Roaming Steering Application User Guide
RADIUS User Guide
vSTP User Manual
vSTP Heat Template
vSTP SS7 Security User Guide
vSTP eLYNX Card Installation Guide
ENUM User Guide
ENUM Heat Template
Mobile Number Portability (MNP) User Guide
TIF User Guide
Alarms and KPIs Reference
Measurements Reference
Glossary
Related Publications Reference
<b>Subscriber Data Server Document Set</b>
SDS Getting Started
SDS User Guide
SDS Provisioning Interface Guide
SDS Software Upgrade Procedure
SDS BareMetal to Cloud Migration Guide
<b>UDR Installation, Upgrade, and Disaster Recovery Document Set</b>
UDR Cloud Installation and Configuration Guide
UDR Cloud Disaster Recovery Guide
Provisioning Gateway Installation Guide
UDR Heat Templates
Provisioning Gateway Heat Templates
UDR SOAP Provisioning Interface Specification
UDR REST Provisioning Interface Specification
UDR Bulk Import/Export File Specification

**Table 4-2 (Cont.) Documentation Pack Contents**

UDR Provisioning Database Application and Interface Specification
<b>Integrated Diameter Intelligence Hub (IDIH) Document Set</b>
IDIH Release Notes
IDIH User Guide

## 4.4 DSR Security Test Summary

**Table 4-3 Security Test Summary**

Security Test Description	Test Completion Date	Summary
Static Source Code Analysis: Assesses adherence to common secure coding standards.	30th March, 2026	All critical and high findings addressed.
Dynamic Analysis (including fuzz testing): Tests for risk of common attack vectors such as OWASP top 10 and SANS 25.	16th March, 2026	All critical and high findings addressed.
Vulnerability Scans: Scans for CVEs in embedded 3rd party components.	30th March, 2026	All critical and high findings addressed.
Malware Scans: Scans all deliverable software packages for the presence of known malware.	30th March, 2026	No findings

# 5

## Supported Upgrade and Migration Paths

This release has been tested for an upgrade and migration from specific prior releases. This chapter contains the exact paths for the upgrade and migration. Verify that your current installed release is listed on a valid upgrade and migration path.

The possible upgrade paths to DSR Release 9.3.0.0.0 are listed in the following table:

**Table 5-1 Supported Upgrade Paths**

Component	From	To
DSR	9.1.0.0.0, 9.2.0.0.0	9.3.0.0.0
SDS	9.1.0.0.0, 9.2.0.0.0	9.3.0.0.0
IDIH	NA	9.3.0.0.0 <b>Note:</b> <ul style="list-style-type: none"><li>• IDIH 9.3.0.0.0 supports only fresh installation.</li><li>• IDIH 9.3 needs different flavour VMs and require additional resources as compared to the older architecture (IDIH 8.x).</li></ul>
vSTP	9.1.0.0.0, 9.2.0.0.0	9.3.0.0.0
UDR	14.1.0.0.0, 14.2.0.0.0	14.3.0.0.0

**Note**

- For more information about IDIH see, *Oracle Communications IDIH User Guide*.
- Any upgrade other than those listed above is not recommended or supported.
- VEDSR is not supported from DSR Release 8.3 onwards.

# 6

## Deprecated Software and Features

The following software element is not compatible with DSR 9.0.0.0.0 and later:

- SCEF

**Note**

Baremetal is not supported from DSR 9.0.0.0.0.

The following features are deprecated from 8.4.0.5 and later:

- DSA with USBR
- ZBA with USBR
- SOR with USBR

The following software elements are not compatible with DSR 8.4 and later:

- DAMP Active-Standby Configuration
- GLA
- MAP Diameter Interworking

Virtualized Engineered DSR (VEDSR) deployment, also known as TVOE based Fully Virtualized Rack Mount Server (FV RMS) Signaling node, is not supported from DSR 8.3 and later. The following are the non-supported network elements of Virtualized Engineered DSR (VEDSR):

- DSR NOAM
- DSR SOAM
- DSR Message Processors (MP)
- SS7 MP
- DSR IPFE
- DSR SBR (Session or Binding or Universal)
- SDS NOAM
- SDS SOAM
- SDS QS
- SDS DP

Virtualized Engineered DSR (VEDSR) networks and associated elements need to be migrated to virtual DSR implementation based on KVM with or without OpenStack or VMware prior to DSR 8.3 or 8.4.x upgrade or install.

# 7

## Resolved and Known Bugs

This chapter lists the resolved and known bugs for DSR.

These lists are distributed to customers with a new software release at the time of General Availability (GA) and are updated for each maintenance release.

### 7.1 Severity Definitions

The problem report sections in this document refer to bug severity levels. Definitions of these levels can be found in the publication, *TL 9000 Quality Management System Measurement Handbook*.

#### Problem Report

A report from a customer or on behalf of the customer concerning a product or process defect requesting an investigation of the issue and a resolution to remove the cause. The report may be issued through any medium.

Problem reports are systemic deficiencies with hardware, software, documentation, delivery, billing, invoicing, servicing, or any other process involved with the acquisition, operation, or performance of a product. An incident reported to request help to bring back the service or functionality to normal without the intent to investigate and provide a resolution to the cause of the incident is not a problem report.

#### Severity Definitions

Service requests for supported Oracle programs may be submitted by you online through Oracle's web-based customer support systems or by telephone. The service request severity level is selected by you and Oracle and should be based on the severity definitions specified as follows:

1. Severity 1 - Your production use of the supported programs is stopped or so severely impacted that you cannot reasonably continue work. You experience a complete loss of service. The operation is mission critical to the business and the situation is an emergency. A Severity 1 service request has one or more of the following characteristics:
  - Data corrupted.
  - A critical documented function is not available.
  - System hangs indefinitely, causing unacceptable or indefinite delays for resources or response.
  - System crashes, and crashes repeatedly after restart attempts.

Reasonable efforts will be made to respond to Severity 1 service requests within one hour. For response efforts associated with Oracle Communications Network Software Premier Support and Oracle

Except as otherwise specified, Oracle provides 24 hour support for Severity 1 service requests for supported programs (OSS will work 24x7 until the issue is resolved) when you remain actively engaged with OSS working toward resolution of your Severity 1 service request. You must provide OSS with a contact during this 24x7 period, either on site or by phone, to assist with data gathering, testing, and applying fixes. You are requested to

propose this severity classification with great care, so that valid Severity 1 situations obtain the necessary resource allocation from Oracle.

Network Software Support & Sustaining Support, please see the Oracle Communications Network Premier & Sustaining Support and Oracle Communications Network Software Support & Sustaining Support sections above.

2. Severity 2 - You experience a severe loss of service. Important features are unavailable with no acceptable workaround; however, operations can continue in a restricted fashion.
3. Severity 3 - You experience a minor loss of service. The impact is an inconvenience, which may require a workaround to restore functionality.
4. Severity 4 - You request information, an enhancement, or documentation clarification regarding your software but there is no impact on the operation of the software. You experience no loss of service. The result does not impede the operation of a system.

## 7.2 Resolved Bug List

This sections lists all resolved bugs for DSR, vSTP, and VNFM in this release.

### 7.2.1 DSR

#### Release 9.3.0.0.0

The following table lists the resolved bugs in DSR 9.3.0.0.0 release.

**Table 7-1 DSR 9.3.0.0.0 Resolved bugs**

Bug Number	Severity	Found in Release	Title
38700693	2	9.1.0.0.0	vDSR_Need process for Automatic /var partition system disk space clearance
38717233	3	8.6.0.0.0	SDS - Excessive Shared Memory - alarm event 31116
38928851	3	9.0.0.0.0	VZW Excessive Shared Memory, Issue with Script
39094124	3	9.0.0.0.0	Zombie Processes on all NOAM/SOAM and MP
38771662	3	9.1.0.0.0	AVP manipulation issue in new vDRA
39026770	3	9.0.0.0.0	SAML SSO issue: Multiple ACS endpoints configured but only default ACS works
38401325	3	9.1.0.0.0	vDSR_Observing an error in DRA when accessing the files via "Status & Manage -> Files" path
38771865	3	9.1.0.0.0	DSR 9.1.0.0.0-100.17.0   Event history in Exported CSV file does not have all the Events
38823287	3	9.2.0.0.0	Description on some of the MEAL Changed Alarms does not match Documentation
39120433	3	9.0.0.0.0	SOAM Log rotation for files under /var/TKLC/appw/logs/Process/ does not work
38210890	3	9.2.0.0.0	Changes to handle Spaces in CA certificate CN DSR 9.2

**Table 7-1 (Cont.) DSR 9.3.0.0.0 Resolved bugs**

Bug Number	Severity	Found in Release	Title
38515326	3	9.0.0.0.0	DSR 9.0.1.0.1_98.16.0   TLS Certificate Import failing and unable to create TLS local node
39016390	3	9.0.0.0.0	Reference to the certificates issue on vDSR for Measurement Data streaming.
38664069	3	9.0.0.0.0	vDSR synchro between NOAM active and SOAM issue
8772373	3	9.0.0.0.0	DSR9.0.2 Not able to open DSR SOAM GUI
38745542	3	9.0.0.0.0	php-fpm causing Server Disk Space Shortage Error
38441280	3	9.1.0.0.0	Duplicate Alarm/Event in DSR 9.1
38607980	3	9.1.0.0.0	Observing "Process Resources Exceeded" for apwSoapServer in multiple DRA
38703783	4	9.0.0.0.0	Abnormal error entries in /var/log/messages
38759055	4	9.2.0.0.0	sftp user creation issue in DSR 9.2

## 7.2.2 vSTP

### Release 9.3.0.0.0

The following table lists the resolved bugs in vSTP 9.3.0.0.0 release.

**Table 7-2 vSTP 9.3.0.0.0 Resolved bugs**

Bug Number	Severity	Found in Release	Title
39138744	2	9.0.2.0.0	Repeated alarm "31201 - Process not running" in two STP-MP
38607731	3	9.1.0.0.0	"No XML document error" is coming up while exporting SOAM alarm history for M3uaLink and RSP
38638910	3	9.1.0.0.0	SFAPP Validation Error. Error Cause = Invalid CC or NDC 7112025
38451919	3	9.1.0.0.0	SSP generated in response to Data packet for unconfigured SCCP Application
38638910	3	9.1.0.0.0	SFAPP Validation Error. Error Cause = Invalid CC or NDC 7112025
37466616	3	9.1.0.0.0	"VSTP Link Usage" export not working
38697505	3	9.1.0.0.0	vSTP Process restarting in SCCP_Validation
38686950	3	9.2.0.0.0	vSTP_SFAPP: Invalid xml sent to udr when MSISDN is updated with VLR
38761381	3	9.0.2.0.0	DSR 9.0.2.1.0-99.16.0   vSTP MAP Based Routing   MBR Decoding Failed
39093255	3	9.1.0.0.0	Data is missing in zone file

**Table 7-2 (Cont.) vSTP 9.3.0.0.0 Resolved bugs**

Bug Number	Severity	Found in Release	Title
38946818	3	9.1.0.0.0	Malfunctioned DNS records (ENUM)
38941432	3	9.2.0.0.0	Post upgrade issue on VSTP MPs with 9.2 release
38541850	4	9.1.0.0.0	Exported CSV of GttActions is showing no value under Default Id and Fail Act Id

## 7.2.3 VNFM

### Release 6.3.0.0.0

The following table lists the resolved bugs in VNFM 6.3.0.0.0 release.

**Table 7-3 VNFM Resolved Bugs**

Bug Number	Severity	Found in Release	Title
39176346	3	6.3.0.0.0	VNFM_6.3.0.0.0_63.5.4] - Remote synchronization between Primary and Secondary VNFM is not working
39176271	3	6.3.0.0.0	VNFM Rel 6.3 - vnfmSecondary gives unexpected value for primaryIp in GET / vnfmState
38962025	3	6.3.0.0.0	Rel 6.3 -- Dynamic IP UDR LCM count is going into negative number of retries for longer time
38951932	3	6.3.0.0.0	Rel 6.3 - Unable to instantiate STP+UDR FixedIp IPv6 & IPv4 dsrSignaling VNF
38947949	3	6.3.0.0.0	VNFM 6.3 - Hardcoded interface name in HEAT templates is causing unexpected behaviour
38925854	3	6.3.0.0.0	VNFM 6.2 GA --> DSR-9.1.0.1 GA --> Upgraded DSR setup to DSR-9.3.0 --> Discovery from VNFM 6.3-- scale VMs cloud init failed
38897735	3	6.3.0.0.0	Rel 9.3 -VNFM_6.3.0.0.0_63.5.2::Unable to create ATS stack: public_key property required by current Nova API version
3889748	3	6.3.0.0.0	Require to Update VNFM property file modification steps to support varying network interface names during Secondary VNFM creation
38766944	3	6.3.0.0.0	[DSR-9.3.0.0.0_103.4.0] STPMPs for pure IPv6 vSTP stack are not getting configured in epoxy cloud

## 7.2.4 IDIH

### Release 9.3.0.0.0

The following table lists the resolved bugs in IDIH 9.3.0.0.0 release.

**Table 7-4 IDIH 9.3.0.0.0 Resolved bugs**

Bug Number	Severity	Found in Release	Title
39216719	3	9.3.0.0.0	EIDIH 9.3.0.0.0-release_9_3_0_0_0.10 few Events full decoding not happing
38924399	3	9.3.0.0.0	EIDH_9.3.0.0.0.8_Displayed Fields: Clear All button and radio button filters not properly managing
38898035	3	9.3.0.0.0	EIDH_9.3_GUI, GUI freezes after clicking "Trace statistics Report" in a particular scenario, Notification pop
38872508	3	9.3.0.0.0	idih_service-9.3.0.0.0-release_9_3_0_0_0.5    protraceprocessor-1 service is not coming up after service
39026367	3	9.1.0.0.0	iDiH   Timestamp Issue & Export Slowness after upgrading to version 9.1.0.0.0_91.32
38774417	3	9.1.0.0.0	Internal Server Error: 100009 Observed for application Ro/Gy in iDIH 9.0.1.2
38628291	4	9.3.0.0.0	Rel 9.3 IDIH-9.3.0.0.0-(RAW): Kafka scripts contain mistyped log entry

## 7.2.5 ATS

### Release 9.3.0.0.0

The following table lists the resolved bugs in ATS 9.3.0.0.0 release.

**Table 7-5 ATS 9.3.0.0.0 Resolved bugs**

Bug Number	Severity	Found in Release	Title
37979560	2	9.0.0.0.0	CVE-2024-9287: PYTHON UPDATE TO AT LEAST 3.13.1, 3.12.8, 3.11.11, 3.10.16, OR 3.9.21
37637869	4	9.0.0.0.0	OCDSR-ATS-GUI: ATS GUI should have a contrast ratio of at least 4.5:1 of text to its background.
37099540	4	9.0.0.0.0	Fortify Scan: Poor Error Handling : Empty Catch Block

## 7.2.6 UDR

### Release 14.3.0.0.0

The following table lists the resolved bugs in UDR 14.3.0.0.0 release.

**Table 7-6 UDR 14.3.0.0.0 Resolved Bugs**

Bug Number	Severity	Found in Release	Title
38915572	3	14.0.0.0.0	Simultaneous operations returns with DbAccessError error code for DSA use case

## 7.3 Known Bug List

The section lists the known bugs for DSR, vSTP, and VNFM along with the associated customer impact statements.

### 7.3.1 DSR

#### Release 9.3.0.0.0

The following table lists the known bugs in DSR 9.3.0.0.0 release.

**Table 7-7 Known Bugs**

Bug Number	Severity	Found in Release	Title	Customer Impact
39203726	3	9.0.0.0.0	SAML 2.0 Implementation IDP file metadata issue	SAML authentication is failing at the IDP, as it is unable to process the request.
39027179	3	9.0.2.0.0	DSR 9.0.2   apwSoapServer process restart in SOAM	OAM issue
39047298	3	9.0.0.0.0	Realm_And_IMSI_Consistency_Check	The Realm_and_imsi_consistency_check issue is due to a wrong configuration in the table, causing it to be marked as vulnerable.
38955835	3	9.1.0.0.0	O2CZ - DCA Application Activation Script Is Broken is DSR 9.1	DCA activation procedure followed is incorrect, need to refer to the guide and follow the proper steps.
39157082	3	9.0.0.0.0	Increase in ULR dropped by DSA "Vulnerable ULR. Subscriber authentication(via AIR) not performed yet	SHVMME is not updating the correct VPLMN ID, causing the ULR to be marked as vulnerable.
39207419	3	9.1.0.0.0	KPI degradation in Vodafone Bihar Patna as re attach is getting failed.	PCA suspect binding and PAT parameter misconfigurations caused 80 IMSIs to be blocked, there is no code-level impact at this time.
39044925	3	9.0.2.0.0	Query PendingRar records not added due to max capacity	Due to a network outage, the database was left with stale data. Manual cleanup is currently in progress by the customer, and there is no code-level impact at this time.
38920893	3	9.1.0.0.0	Observing intermediate flap from INVIUW10MWN7DRAX01ORS-SBRS11 towards UPW MWN DS00/01 & SBR12/ UW10MO	A split brain issue is currently being investigated by Comcol.
39176879	3	9.1.0.0.0	Observing intermittent flapping for the inter DRA link (Huawei and Oracle)	1 out of 4 connections is becoming degraded or unavailable due to DWX timeouts.

Table 7-7 (Cont.) Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
39005078	3	9.0.0.0.0	Few MPs showing fewer floating connections.	Some MPs are operating with reduced floating connections due to connection fluctuations when using IPFE.
39179958	3	9.2.0.0.0	Server Disk Space Shortage Warning caused by /var/log/messages being filled with "network unreachable resolving" messages	Syslog is filling up /var/log/messages "with network unreachable resolving entries", with no functional impact.
39080563	3	9.0.0.0.0	DSR forwarding packets to unknown IP	Unknown DNS queries to external IPs.
39208726	3	9.0.0.0.0	Partition /var become almost full due to increase size of www-error.log files in /var/log/php-fpm	A deprecated trace was present, increasing the overall size of /var/log.
39123861	3	9.1.0.0.0	Not able to add new DAMPs IP in the TSA group	TSA could not add the new DAMPs backend application servers.
39022771	3	9.1.0.0.0	After DSR 8.6 to 9.1 DIU OAM Disk Partitions Fill Due To Certain Logs Not Rotating	The aw_meas and syslog logs were not rotating regularly, resulting in large log files being created.
39177740	3	9.2.0.0.0	DSR 9.2.0.0.0-102.16.0   Dedicated Replication Network is resulting SOAMs going OOS	This was a configuration issue; the correct IPv6 migration document was later shared with support for the necessary corrections.
39076064	3	9.2.0.0.0	SOAM Server Disk Space shortage error after upgrade of MPs to DSR 9.2.0.0.0-102.16.1 plus Comcol Patch P38771670	The customer setup had a rundb size of 8.5 GB from DSR 8.x. A script was provided to update it to 13 GB, which is the size used in fresh installations.
39203749	3	8.6.0.0.0	5002,5003&5012 alarms Observed towards vDSR-MAH-PUNESO-DIP00 & vDSR-MAH-PUNESO-DIP01	Alarms 5002, 5003, and 5012 were observed when IPFE was unreachable.
39225664	3	9.1.0.0.0	India    Observed Binding session not found in KEL_ERN DRA	Binding sessions were not found due to a large number of suspect bindings, which triggered RAR pending messages to accumulate in the queue.
39191053	4	9.0.0.0.0	Guidance Request - Replacing Self-Signed Certificates on Oracle DSR VMs	There is no general impact on the customer; this is a guidance request for a workaround to skip updating CA certificates on C-level servers for a specific case.
39134177	4	8.6.0.0.0	No Alarms Seen During Flap Even Though Link Last Update Reflects Updated Timestamp	There is no functional impact, event information and alarms are being reported as designed.
38945984	4	9.0.0.0.0	MP04 db stays in X state	MP04 was moved from one VMware host to another, however, live VM migration is not supported by DSR.
39098409	4	9.3.0.0.0	Rel 9.3 : DSR 9.3.0.0.0-103.9.0 : Minor alarms 22201 (MpRxAllRate) & 22221 (Routing MPS Rate) not clearing for 5 days	After the traffic rate decreased, the clear alarm was not reported. No functionality issue reported.
39178226	4	8.6.0.0.0	VZW    SDS Primary Standby NOAM node (txslslfstds1b) upgrade failed	During the upgrade, FDs were getting exhausted due to the default limit of 1024. A new DIU ISO was provided with the FD limit increased to 32768 in the upgrade service.

## 7.3.2 vSTP

### Release 9.3.0.0.0

The following table lists the known bugs in vSTP 9.3.0.0.0 release.

**Table 7-8 Known Bugs**

Bug Number	Severity	Found in Release	Title	Customer Impact
39232422	3	9.3.0.0.0	ENUM: Alarm 70900DNS Record Configuration Error raised for NS records post upgrade	DNS Record Configuration Error Alarm is raised for NS records post upgrade Workaround: Restart the venum process to clear the alarms.
39152964	3	9.3.0.0.0	No Event Observed for Invalid IMSI/MSISDN Length in Messages Received on VSTP	No impact
39149298	3	9.3.0.0.0	CFG-DB Validation Error observed on ENUM MP post upgrade	No impact Workaround: If the alarm occurs during the upgrade, restart the venum process on the affected Enum MP.
35813705	3	9.0.0.0.0	Rel 9.0.1: ENUM/DNS - NS records gets failed to add in zones after adding/rebuilding enum mp to server group.	NS records may be missing from zones after ENUM MP add or rebuild, causing DNS record alarms and possible zone inconsistency. Workaround: Delete and re-add the NS record with the same data to clear the alarm and ensure it is added successfully. Alternatively, disable VENUM, delete the master file, and then re-enable VENUM.
39147895	3	9.3.0.0.0	DSR_Upgrade : 9.0.2.0.0-99.14.0 to 9.3.0.0.0 : ENUM traffic not working post upgrade	ENUM queries get timed out post upgrade. Workaround: Turn the load balancer off from the GUI, then turn it back on.
39158599	4	9.3.0.0.0	Operational Reason of M3UA links is displayed as NORMALATED instead of Normal on GUI	No impact.

## 7.3.3 VNFM

### Release 9.3.0.0.0

The following table lists the known bugs in VNFM 9.3.0.0.0 release.

**Table 7-9 Known Bugs**

Bug Number	Severity	Found in Release	Title	Customer Impact
39232512	3	6.3.0.0.0	DELETE /vnf_instances/{vnfInstanceId} for eidih doesn't work	There is no functional impact, this is part of clean-up process.
39232766	3	6.3.0.0.0	[VNFM_6.3.0.0.0_63.5.5] VNFM creation through NFVD failing for cases with VNFM ipv4 and VIM ipv6	The work around is documented.

## 7.3.4 IDIH

### Release 9.3.0.0.0

The following table lists the known bugs in IDIH 9.3.0.0.0 release.

**Table 7-10 Known Bugs**

Bug Number	Severity	Found in Release	Title	Customer Impact
39254254	3	9.1.0.0.0	IDIH internal server error	Work in progress.

## 7.3.5 ATS

### Release 9.3.0.0.0

The following table lists the known bugs in ATS 9.3.0.0.0 release.

**Table 7-11 Known Bugs**

Bug Number	Severity	Found in Release	Title	Customer Impact
38205016	4	9.0.0.0.0	Content Security Policy (CSP) Header Not Set : Jenkins-ATS :ZAP	Third party issue, no customer impact.
35666293	4	9.0.0.0.0	OCDSR-ATS-GUI: ATS GUI Content should be presented without loss of information or functionality, and without requiring scrolling in two dimensions	Third party issue, no customer impact.
35666267	4	9.0.0.0.0	OCDSR-ATS-GUI: ATS GUI should be able to identify the language of the page, or parts of the page using lang attribute,	Third party issue, no customer impact.
35665451	4	9.0.0.0.0	OCDSR_ATS_GUI: Information provided by ATS GUI visually must also be supported programmatically or textually.	Third party issue, no customer impact.
35665251	4	9.0.0.0.0	OCDSR_ATS_GUI: ATS GUI needs to support textual equivalent for all non-text content (e.g images).	Third party issue, no customer impact.
35643449	4	9.0.0.0.0	Seagull- Fortify Scan: Low Priority issues found in seagull code	No Customer impact.
33996588	4	8.6.0.0.0	Jenkins Logo is visible in "View as Plain Text" Tab.	No Customer impact.

## 7.3.6 UDR

### Release 14.3.0.0.0

There are no known bugs for this release.