

Oracle® SD-WAN Edge

Release Notes



Release 9.1 & 9.1M1

F38217-07

September 2022

The Oracle logo, consisting of the word "ORACLE" in white, uppercase letters, centered within a solid red square.

ORACLE®

Oracle SD-WAN Edge Release Notes, Release 9.1 & 9.1M1

F38217-07

Copyright © 2021, 2022, Oracle and/or its affiliates.

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

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

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

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

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

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

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

Contents

About This Guide

My Oracle Support iv

Revision History

1 Introduction to Oracle SD-WAN Edge 9.1

Supported Appliances	1-1
Upgrade Information	1-2
OS Compatibility	1-3
Coproduct Support	1-3
Supported Web Browsers	1-3
Documentation Changes	1-3
Deprecated Features	1-4

2 New Features

New Features in Oracle SD-WAN Edge 9.1M1	2-2
--	-----

3 Interface Changes

Application Interface Changes	3-1
-------------------------------	-----

4 Known Issues

About This Guide

Oracle SD-WAN Edge Release Notes inform customers of added features, resolved issues, requirements for use, and known issues.

Audience

This document is meant for network administrators and architects who are familiar with Oracle SD-WAN terminology and the Edge solution.

Documentation Set

This table lists related documentation.

Document Name	Document Description
Oracle SD-WAN Edge Release Notes	Contains information about added features, resolved issues, requirements for use, and known issues in the latest Oracle SD-WAN Edge release.
Oracle SD-WAN OS Release Notes and Upgrade Guide	Contains information about inserting an OS Partition Image or OS Patch on an appliance in order to migrate to a new OS version or apply fixes to an existing version.
Oracle SD-WAN Security Guide	Contains information about security methods within the Oracle SD-WAN solution.
Oracle SD-WAN Edge Features Guide	Contains feature descriptions and procedures for all incremental releases of Oracle SD-WAN Edge. This guide is organized by release version.
Oracle SD-WAN Edge High Availability Guide	Contains information about implementing High Availability, as well as deployments and configuration.
Oracle SD-WAN Edge Virtual Appliance Installation Guide	Contains information about how to install a Virtual Appliance on a supported hypervisor.
Oracle SD-WAN Edge Service Chaining Guide	Contains information about installing a Guest Virtual Machine using the Service Chaining UI.
Oracle SD-WAN Edge Enhanced Application ID and Signatures Guide	Oracle SD-WAN Edge Enhanced Application Identification and Applications Signatures Guide informs customers of the Application Identification feature set.

My Oracle Support

My Oracle Support (<https://support.oracle.com>) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with My Oracle Support registration.

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select 2 for New Service Request.
2. Select 3 for Hardware, Networking, and Solaris Operating System Support.
3. Select one of the following options:
 - For technical issues such as creating a new Service Request (SR), select 1.
 - For non-technical issues such as registration or assistance with My Oracle Support, select 2.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

In the event of a critical service situation, emergency response is offered by the Customer Access Support (CAS) main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) site, <http://docs.oracle.com>. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at <http://www.adobe.com>.

1. Access the Oracle Help Center site at <http://docs.oracle.com>.
2. Click **Industries**.
3. Click the **Oracle Communications** link.

Under the **SD-WAN** header, select a product.

4. Select the Release Number.
A list of the entire documentation set for the selected product and release appears.
5. To download a file to your location, right-click the **PDF** link, select **Save target as** (or similar command based on your browser), and save to a local folder.

Revision History

The following table lists the dates and descriptions of the revisions to this document.

Date	Description
April 2021	<ul style="list-style-type: none">Initial release.
October 2021	SD-WAN Edge 9.1M1 <ul style="list-style-type: none">Adds "New Features in Oracle SD-WAN Edge 9.1M1" topic.Updates the "Known Issues" topic.
December 2021	<ul style="list-style-type: none">Adds the "ESP Encryption: Removed AES 128-bit, AES 192-bit, and AES 256-bit." bullet to the "Application Interface Changes" topic.
March 2022	<ul style="list-style-type: none">Removes T860 and T3010 from the "Supported Appliances" topic.Updates the Known Issues and Resolved Issues topics.
May 2022	<ul style="list-style-type: none">Updates the Known Issues topic.
September 2022	<ul style="list-style-type: none">Updates the Known Issues table.

1

Introduction to Oracle SD-WAN Edge 9.1

Oracle SD-WAN Edge is the new name for the previously named Talari APN product.

The Oracle SD-WAN Edge *Release Notes* provide the following information about the 9.1 release:

- Specifications of supported platforms, virtual machine resources, and hardware requirements
- Overview of new features and enhancements
- Summaries of known issues and limitations

Supported Appliances

Oracle SD-WAN Edge 9.1 supports the following appliances functioning as Network Control Nodes (NCNs) or Client Nodes.

- Physical Appliances: E50, E100, E500, E1000, T5000, T5200, D2000, D6000
- Virtual Appliances: VT800, VT800-128, CT800, CT800-128.



Note:

The E50 appliance functions only as a Client Node.

Physical Appliance Scaling

The following table lists and describes the network scale for each appliance model when running Oracle SD-WAN Edge 9.1.

Appliance Model	Max Static Conduits	Max Dynamic Conduits	Max WAN Ingress Paths	Max WAN Egress Paths	Max Flows (TCP Term off)	Max Flows (TCP term on)	Max Public WAN Links	Max Private WAN Links
E50	8	4	36	36	32,000	500	3	32
E100	32	16	216	216	64,000	8,000	8	32
E500	32	16	216	216	64,000	16,000	8	32
E1000	200	32	1000	1000	256,000	16,000	8	32
D2000	200	32	1000	1000	256,000	16,000	8	32
T5000	256	32	1152	1152	512,000	16,000	8	32
T5200	550	32	5500	5500	512,000	16,000	8	32
D6000	550	32	5500	5500	512,000	16,000	8	32

CT800 Virtual Appliance Scaling

Platform	Max Static Conduits	Max Dynamic Conduits	Max WAN Ingress Paths	Max WAN Egress Paths	Max Flows (TCP Term off)	Max Flows (TCP term on)	Max Public WAN Links	Max Private WAN Links
CT800	16	8	120	120	64,000	5,000	8	32
CT800-128 ¹	128	32	576	576	256,000	16,000	8	32

¹ CT800_128, supported as NCN.

VT800 Virtual Appliance Scaling

Platform / Base Conduit	Max Static Conduits	Max Dynamic Conduits	Max WAN Ingress Paths	Max WAN Egress Paths	Max Flows (TCP Term off)	Max Flows (TCP term on)	Max Public WAN Links	Max Private WAN Links
VT800	32	16	216	216	64,000	1500	8	32
VT800-128 ¹	128	32	576	576	256,000	16,000	8	32

¹ VT800_128, supported as NCN.

Upgrade Information

Application Upgrade Paths

The following versions of Oracle SD-WAN Edge can be upgraded to version 9.1.0.0.0:

- 9.0.x.x.x
- 8.2.x.x.x

Upgrade Considerations

- As noted in the OS Compatibility section, SD-WAN OS 7.0.3 is required to run this release. Therefore if you plan to upgrade from 8.2.x.x.x or 9.0.x.x.x, you must ensure that your systems are on the proper SD-WAN OS; change management will prevent upgrading to 9.1 if your systems are not running SD-WAN OS 7.0.3+ first.
- When upgrading to this release, the auto-generated HTTPS SSL Certificate is regenerated with a stronger certificate. Refresh the browser after the new software version activation is completed.
- Ensure your SSH client is upgraded to a current, stable version before connecting to Oracle SD-WAN.

Multiversion Support

This version of Oracle SD-WAN Edge can support multiple versions of this product throughout your APN. The following releases may be active in your network simultaneously:

- 9.x



Note:

No 8.x or 7.x Oracle SD-WAN software can be used in a multiversion deployment.

OS Compatibility

Oracle SD-WAN Edge 9.1 requires the following versions of the Talari OS / Oracle SD-WAN OS:

- OS 7.0.3 and later (Oracle Enterprise Linux based OS for all supported devices with 9.0)

See the Oracle SD-WAN OS 7.0 Release Notes and Upgrade Guide for more information.

Coproduct Support

Oracle SD-WAN Edge 9.1 is supported in combination with the following versions of Aware:

- Oracle SD-WAN Aware 9.0



Note:

This version of SD-WAN Edge is not released with a companion version of SD-WAN Aware.

To deploy this version of Oracle SD-WAN Edge on your network, each appliance must be running a supported version. If an OS update is required, see the Oracle SD-WAN Edge OS Partition Update Guide for instructions.

Supported Web Browsers

The Web Console is supported in the latest versions of the following web browsers:

- Mozilla Firefox
- Google Chrome

Supported browsers must have cookies enabled, as well as JavaScript installed and enabled.

Documentation Changes

There are no customer documentation changes for the 9.1 release.

The 9.1M1 Release of this product contains the following documentation changes:

- Introduction of Enhanced Application ID and Application Signatures Guide to the 9.1 Documentation Set
- Addition of REST API documentation for Oracle SD-WAN Edge Release 9.1.1
- These publications have been updated:
 - Oracle SD-WAN Edge Feature Guide
 - Oracle SD-WAN Edge Security Guide
 - Oracle SD-WAN OS Release Notes and Upgrade Guide

Deprecated Features

This section lists features deprecated in this release.

IPsec for Conduits

IPsec for Conduits is no longer supported.

Easy First Install/ZTP

On April 30, 2021, Easy First Install/ZTP feature will be deactivated. Refer to the [Out of Band Zero Touch Provisioning](#) feature as a replacement.

2

New Features

The Oracle SD-WAN Edge 9.1 release supports the following new features and enhancements.

Out of Band ZTP

Out of Band Zero Touch Provisioning (ZTP) is a serverless, secure way to provision new SD-WAN Edge devices in your network. This method, through a USB drive plugged into the appliance or a mapped drive created on VT800 for virtual appliances, is used to provision clients without any initial configuration upon start up.

Out of Band ZTP is only available with systems that are already running SD-WAN Edge 9.1 and later. If your system is still on SD-WAN Edge 9.0 or earlier, or your system shipped prior to the 9.1 release and has never been upgraded, Out of Band ZTP will not work until you upgrade.

Virtual Appliance on COTS

SD-WAN Edge can now be run on Intel Atom based platforms. With the update, the following changes have been made.

- The default image size has been reduced to 40GB, for a client node without the WANOp feature.
- The default image size has been reduced to 100GB, for a NCN node without WANOp feature.

 **Note:**

For WANOp functionality you will need to increase the local volume by at least 80 GB . See "Disk Image and Deployment Size" in the Virtual Appliance Installation Guide for more information.

Up to 2.5 Gbps Performance on KVM-based Platforms

SD-WAN Edge, when running on appropriate Intel Xeon hardware, can support up to 2.5 Gbps throughput.

A new KVM Optimization appendix has been added to the Virtual Appliance guide.

Keyboard Shortcuts

A list of new keyboard shortcuts has been added as an appendix to the Features Guide.

REST API Documentation

This release introduces full REST API documentation with a limited set of examples. The REST API documentation is found on the 9.1 release landing page at the following link: <https://docs.oracle.com/en/industries/communications/sd-wan-edge/9.1/rest/index.html>

New Features in Oracle SD-WAN Edge 9.1M1

The Oracle SD-WAN Edge 9.1M1 release supports the following new features and enhancements.

Addition of Zoom Application ID Signatures

The existing Application ID feature now contains two additional Zoom definitions. The new definitions enable you to enhance the Quality of Experience (QoE) for Zoom communications software by configuring priority and rules.

To use this feature, you must first install the 2.0 Application Signature File.

See the *Enhanced Application Identification and Application Signatures Guide* for details.

Operating System Upgrade from the NCN

The Oracle SD-WAN Edge User Interface (UI) now provides a central location on the Network Control Node (NCN) UI for upgrading the Operating System (OS) across your network of SD-WAN appliances. You can upload OS packages and remotely upgrade OS versions for all supported hardware, virtual platforms, and cloud platforms from the same console in the NCN UI that you use to upgrade the software.

See "Operating System Upgrade from the NCN" in the *Release Notes and Upgrade Guide*.

Support for DTLS

Oracle SD-WAN Edge supports Datagram Transport Layer Security (DTLS) encryption for securing enterprise traffic across sites in an SD-WAN network. You configure the settings on the DTLS Certificate Management page in the DTLS Settings section of Manage SD-WAN Edge.

See "DTLS Support for SD-WAN Edge" in the *Features Guide*.

Support for Multiple IPSec Tunnels

Oracle SD-WAN Edge supports multiple IPSec tunnels for HA dual pair and Load balancing Tunnel Groups across WAN Links and services. The support includes multiple tunnels for the same remote endpoint IP originating across different source WAN links, as well as, multiple tunnels originating from the same source WAN link servicing different remote IPs.

See "Support for Multiple IPSec Tunnels" in the *Features Guide*.

REST API Enhancement

This release adds 60 new endpoints which provide configuration of HTTPS settings, user management, and other functionalities.

See "REST API 9.1.1" on the 9.1 release page.

3

Interface Changes

Application Interface Changes

The following information describes changes to the interface in Oracle SD-WAN Edge Release 9.1.

IKE IPsec Options

The following list describes changes to IKE and IPsec options in the Configuration editor:

- IKE DH Groups: Removed Groups 1 and 2.
- IKE Hash Algorithm: Removed MD5.
- IKE Lifetime: Changed the default values for IKE Lifetime to 3600.
- IKE Lifetime Max: Removed.
- IPsec PFS Groups: Removed Group 1 and 2.
- IPsec Tunnel Type: Removed AH and ESP-NULL.
- IPsec Hash Algorithm: Removed MD5.
- IPsec Lifetime Max: Removed.
- IPsec Lifetime (KB) Max: Removed.
- ESP Encryption: Removed AES 128-bit, AES 192-bit, and AES 256-bit.

4

Known Issues

The following tables list the known issues in version 9.1 and unresolved known issues from previous releases. You can reference known issues by ID number and you can identify the issue, any workaround, when the issue was found, and when it was fixed using this table. Issues not carried forward in this table from previous Release Notes are not relevant to this release. You can review delivery information, including defect fixes in this release's Build Notes.

Known Issues

The following table lists unresolved Known Issues.

ID	Description	Severity	Found In
30783830	SD-WAN Edge does not support GRE wrapped packets that are fragmented before being encapsulated into the GRE wrapper.	2	8.1.0.2.0
34027399	D2000 core dump causing Active/Active HA.	2	9.1.0.1.0
34043683	Switching management IP between DHCP and static is failing.	3	8.2.1.9.0
34001818	In the conduit basic settings, there is a "Disable Reverse Also" option, but there is no "Enable Reverse Also" option.	2	8.2.1.9.0
33935424	Error message EC261 about duplic WAN link names displays, when no error exists.	3	9.1.0.1.0
33271781	When the Internet service at a site goes down, the routes for that service will still be exported out to the client sites by way of WAN to WAN forwarding. The route still shows as reachable on the client site and traffic is not directed to an alternate path.	2	8.2.1.5.1
33470576	NCN Drops Conduits to all Sites and Shows Deadman timeouts.	2	8.2.1.7.0

ID	Description	Severity	Found In
33909829	Unable to Perform Basic Web UI Functions and Unable to Import Current Running Configuration to Editor.	2	9.1.0.1.0
33847288	NCN does not pick up the correct public IP address with the autodetect public IP address enabled. Workaround: Statically configure the public IP address.	2	8.2.1.6.1
33775603	The client site and NCN temporarily detect a configuration mismatch, but no configuration changes occurred at either site.	3	8.2.1.5.1
33585765	D2000 Interface 9 and 10 do not work after trying different SFP+ transceivers, cabling, and peer devices. Workaround: Upgrade the firmware of the SFP+ interfaces.	3	8.2.1.7.0
33702817	Some of the log files like dynamic_routing.log are not recreated after deleting them. Workaround: Restart the BIRD process which recreates the dynamic_routing.log.	3	8.2.1.7.0
33789553	Packet Captures on Trunked Interfaces do not work correctly when applying a filter.	3	9.1.1.0.0
33391550	When DNS Proxy is enabled, TCP based DNS request and response can cause a service impacting core dump. Workaround: Turn off DNS proxy.	3	8.2.1.6.1
33391550	When the DNS Proxy is enabled, TCP based DNS requests and responses can cause a service impacting core dump. Workaround: Turn off DNS proxy.	3	8.2.1.6.1

ID	Description	Severity	Found In
33541888	Edge is sending a NAS-IP-Address of 127.0.0.1 instead of its real IP address.	3	9.0.1.2.0
33618327	All HTTP and HTTPS traffic between certain sites and the NCN was significantly degraded. A forced HA swap improves the performance.	3	8.2.1.7.0
33286234	All HTTP and HTTPS traffic between certain sites and the NCN was significantly degraded. A forced HA swap improves the performance.	3	8.2.1.7.0
33286234	Munin logging is not included in diagnostics.	4	8.2.1.7.0
33806764	Performance reports show incorrect Information.	4	8.2.1.8.0

Resolved Issues

The following table lists previous Known Issues that are resolved.

ID	Description	Found In	Fixed In
33359757	Problem statement: A service impacting core dump may occur in a client site when a configuration change is applied in NCN.	9.1.0.0.0	9.1.1.0.0
33416733	Problem statement: You cannot add multiple WAN links with the DHCP Virtual Interface. Workaround: 1.Add a Virtual Interface with Static IP address. 2.Create a WAN link using this Virtual Interface. 3.Edit the Virtual Interface as DHCP. The WAN link will be automatically converted to a WAN link with the DHCP Virtual Interface.	9.1.0.0.0	9.1.1.0.0

ID	Description	Found In	Fixed In
33427548	Problem statement: Support migration of controller functionality between SD-WAN Edge NCN and OSOC (Oracle SD-WAN Orchestration Cloud service).	N/A	9.1.0.1.0
32807705	Problem statement: Virtual Interfaces with the same routing domains, even having different names are considered as same, so does not show one of them.	9.1.0.0.0	9.1.0.1.0
33295659	Problem statement: A service impacting core dump may occur on VT800 when performing network reboot.	9.1.0.1.0	9.1.0.1.0
33136899	Problem statement: The Interface List view does not refresh the total number of Ethernet Ports based on the site selection change, resulting in wrong data displayed.	9.1.0.0.0	9.1.0.1.0
33136867	Problem statement: Downloading a configuration file from the 8.2 release with Import Filter with Service Type as Local and importing it into 9.1 release changes the Service Type to Passthrough.	9.1.0.0.0	9.1.0.1.0
33308843	Problem statement: BGP may restart during a configuration update causing the network to go down.	9.1.0.0.0	9.1.0.1.0
32982732	Problem statement: The init.log file grows to a very large size.	9.1.0.0.0	9.1.0.1.0

ID	Description	Found In	Fixed In
32962206	Problem statement: 1. Service impacting memory dump or system slowness may be observed due to stress on available system memory. 2. A service impacting memory dump may occur during a configuration update.	9.1.0.0.0	9.1.0.1.0
33193092	Problem statement: Dynamic Routing does not restart from GUI or command line.	9.1.0.0.0	9.1.0.1.0
33239642	Problem statement: You may not be able to install the zip package containing software and configuration.	9.1.0.0.0	9.1.0.1.0
33236355	Problem statement: You may not be able to use SSH to the edge device using radius credentials.	9.1.0.0.0	9.1.0.1.0
32724191	Problem statement: The database clean script is unable to clean the stats database.	9.1.0.0.0	9.1.0.1.0
32975725	Problem statement: The priority for User Defined Application compared to Oracle Defined Application was not given, leading to flows matching the wrong application.	9.1.0.0.0	9.1.0.1.0
32724305	Problem statement: Slowness reported in appliance after configuration update.	9.1.0.0.0	9.1.0.1.0
32723200	Problem statement: In the Performance Reports, whenever Active WAN Link goes down, so does the Last Resort WAN Link.	9.1.0.0.0	9.1.0.1.0
32724823	Problem statement: Not able to load the configuration file extracted from diagnostics when there was an Identity certificate included in the configuration.	9.1.0.0.0	9.1.0.1.0

ID	Description	Found In	Fixed In
33215349	Problem statement: The browser continues to use the older HTTPS certificate after uploading the new certificate and key.	9.1.0.0.0	9.1.0.1.0
32955491	Problem statement: Management Packet Capture Option was missing as for the hardware model E100 and E50 we were not considering MGT attribute.	9.1.0.0.0	9.1.0.1.0
33294543	Problem statement: You may not be able to create a DHCP subnet using the configuration editor.	9.1.0.0.0	9.1.0.1.0
33344915	Problem statement: The database clean script is unable to clean the stats database.	9.1.0.0.0	9.1.0.1.0
33312790	Problem statement: You may not be able to add a global firewall policy template from the web UI.	9.1.0.0.0	9.1.0.1.0
32729388	Problem statement: The hard disk usage alert continues to display in the UI after addressing the issue.	9.1.0.0.0	9.1.0.1.0
33381683	Problem statement: 1. You may observe poor performance for traffic going from NCN to client sites. 2. A service impacting memory dump may occur during change management.	9.1.0.0.0	9.1.0.1.0
32241462	Problem statement: On the QoS, Rules statistics page the table column headers are shifted right by one column. Workaround: Read the data in the table by associating the data in the column to one header to left.	9.0.1.1.0	9.1.0.0.0

ID	Description	Found In	Fixed In
32240517	<p>Problem statement: Instead of showing the application name, the application index is displayed on the filter policies statistics page.</p> <p>Workaround: Determine the application name from the application index on the ,Firewall Filter Policies page. Go to Configuration,View Configuration, Firewall,Firewall Filter Policies page.</p>	9.0.1.1.0	9.1.0.0.0

Resolved Issues

The following table provides a list of previous Known Issues that are resolved.

ID	Description	Found In	Fixed In
34025694	init.log filling up with snmpd status messages.	9.1.1.1.0	9.1.1.2.0
33788673	GUI does not set Swap when importing cfg of swapped Pri-Sec HA.	9.1.1.0.0	9.1.1.2.0
33792919	DHCP clients cannot acquire IP address during lease renewal since the request is forwarded to an incorrect DHCP server.	9.1.0.1.0	9.1.1.1.1
33934012	Service impacting core dump can occur when DNS proxy is configured and DNS over TCP is used by the customer.	9.1.1.0.0	9.1.1.2.0
33898137	Return internet flows are being dropped unexpectedly.	9.1.1.0.0	9.1.1.2.0
33894232	Customer unable to configure IPSec tunnel for Internet and Intranet services if their WAN Gateway router is running in a HSRP setup.	9.1.1.0.0	9.1.1.2.0
32372402	Request to allow for up to 8 standby WAN links.	8.2.1.4.0	9.1.1.2.0

ID	Description	Found In	Fixed In
33450579	Problem Statement: Repeated service impacting core dumps may occur resulting in service getting automatically disabled when High Availability is configured with bigger site name and virtual interface names.	9.1.0.0.0	9.1.1.1.0
33846288	Problem Statement: Operation failed error reported on clicking Site, Advanced, Firewall in the configuration editor.	9.1.0.1.0	9.1.1.1.0
33557280	Problem Statement: Selected packet capture interface captures different interface in Troubleshoot, packet capture.	9.1.0.1.0	9.1.1.1.0
33513838	Problem Statement: Service impacting core dump may occur on a VT800 appliance.	9.1.0.1.0	9.1.1.1.0
33367170	Problem Statement: Log files may grow to a very large size due to log rotation not working as expected.	9.1.1.0.0	9.1.1.1.0
33522570	Problem Statement: Client Conduit does not establish after a Configuration change occurs while the Client is down.	9.1.1.0.0	9.1.1.1.0
33526722	Problem Statement: Running diagnostics can cause the NCN active HA peer to failover and become the standby HA peer.	9.1.1.0.0	9.1.1.1.0
33575873	Problem Statement: Removal of the PA service chain can result in high disk usage which may cause service to clean and restart.	9.1.1.0.0	9.1.1.1.0
33574101	Problem Statement: The ingress or egress packet size may be different than the configured MTU size.	9.1.1.0.0	9.1.1.1.0

ID	Description	Found In	Fixed In
33767386	Problem Statement: Dynamic Conduit may form only in one direction in a high traffic scenario.	9.1.1.0.0	9.1.1.1.0
33557280	Problem Statement: Selected Packet Capture Interfaces Capture Different Interface.	9.1.0.1.0	9.1.1.1.0
33791833	Problem Statement: You will be unable to receive email alerts.	9.1.1.0.0	9.1.1.1.0
33596943	Problem Statement: You will be unable to push configuration exported from configuration editor to 'ready to stage' screen. Configuration exported from configuration editor to change management cannot be pushed to ready for staged if another configuration is already ready to be staged.	9.1.0.1.0	9.1.1.1.0
33765021	Problem Statement: On importing a configuration, the virtual interface name and associated routing domain value is not displayed as per the configuration in OSPF, BGP, DHCP Relay screens in the configuration editor.	9.1.1.0.0	9.1.1.1.0
33577919	Problem Statement: Cannot remove Config Audit Errors after Site Deletion Due to Lingering Parameters.	9.1.1.0.0	9.1.1.1.0
33789235	Problem Statement: You may be unable to import TALRI-MIB file due to some syntax errors in the file.	9.1.1.0.0	9.1.1.1.0
33659824	Problem Statement: Deleting a route filter removes the wrong filter from the configuration.	9.0.1.2.0	9.1.1.1.0

ID	Description	Found In	Fixed In
33821307	Problem Statement: The packet capture filter does not accept the host filter.	9.1.0.1.0	9.1.1.1.0
33585945	Problem Statement: SNMP v3 test command options are incorrect when encryption NONE is chosen.	9.1.0.1.0	9.1.1.1.0
33833518	Problem Statement: Ethernet numbers incorrect in packet capture drop-down selection.	9.1.1.0.0	9.1.1.1.0
33718417	Problem Statement: SNMP commands can be executed even though it is disabled from the UI.	9.1.1.0.0	9.1.1.1.0
33797147	Problem Statement: SMTP Server Hostname is not permitted when setting up email alerts.	9.1.1.0.0	9.1.1.1.0
33359757	Problem Statement: A service impacting core dump may occur in a client site when a configuration change is applied in NCN.	9.1.0.0.0	9.1.1.0.0
33416733	Problem Statement: You cannot add multiple WAN links with the DHCP Virtual Interface. Workaround: 1. Add a Virtual Interface with Static IP. 2. Create a WAN link using this Virtual Interface. 3. Edit the Virtual Interface as DHCP. The WAN link automatically converts to a WAN link with DHCP Virtual Interface.	9.1.0.0.0	9.1.1.0.0
33427548 (Enhancement Request)	Problem Statement: Support for migration of controller functionality between SD-WAN Edge NCN and OSOC (Oracle SD-WAN Orchestration Cloud service).		9.1.0.1.0

ID	Description	Found In	Fixed In
32807705	Problem Statement: Virtual Interfaces with the same routing domains, even with different names are considered as the same, so it will not show one of them.	9.1.0.0.0	9.1.0.1.0
33295659	Problem Statement: A service impacting core dump may occur on VT800 when performing network reboot.	9.1.0.1.0	9.1.0.1.0
33136899	Problem Statement: The Interface List view does not refresh the total number of Ethernet Ports based on the site selection change, resulting in wrong data displayed.	9.1.0.0.0	9.1.0.1.0
33136867	Problem Statement: Downloading a configuration file from the 8.2 release having Import Filter with Service Type as Local and importing it into 9.1 release changes the Service Type to Passthrough.	9.1.0.0.0	9.1.0.1.0
33308843	Problem Statement: BGP may restart during a configuration update causing the network to go down.	9.1.0.0.0	9.1.0.1.0
32982732	Problem Statement: The init.log file grows to a very large size.	9.1.0.0.0	9.1.0.1.0
32962206	Problem Statement: 1. A service impacting memory dump or system slowness may be observed due to stress on available system memory. 2. A service impacting memory dump may occur during a configuration update.	9.1.0.0.0	9.1.0.1.0
33193092	Problem Statement: Dynamic Routing does not restart from the GUI or the command line.	9.1.0.0.0	9.1.0.1.0

ID	Description	Found In	Fixed In
33239642	Problem Statement: You may not be able to install the zip package containing software and configuration.	9.1.0.0.0	9.1.0.1.0
33236355	Problem Statement: You may not be able to use SSH to connect to the edge device using radius credentials.	9.1.0.0.0	9.1.0.1.0
32724191	Problem Statement: The database clean script is unable to clean the stats database.	9.1.0.0.0	9.1.0.1.0
32975725	Problem Statement: The priority for User Defined Application compared to Oracle Defined Application was not given, leading to flows matching the wrong application.	9.1.0.0.0	9.1.0.1.0
32724305	Problem Statement: Slowness reported in appliance after configuration update.	9.1.0.0.0	9.1.0.1.0
32723200	Problem Statement: In the Performance Reports, whenever the Active WAN Link goes down, so does the Last Resort WAN Link.	9.1.0.0.0	9.1.0.1.0
32724823	Problem Statement: Unable to load the configuration file extracted from diagnostics when there was an identity certificate included in the configuration.	9.1.0.0.0	9.1.0.1.0
33215349	Problem Statement: The browser continues to use the older HTTPS certificate even after uploading the new certificate and key.	9.1.0.0.0	9.1.0.1.0
32955491	Problem Statement: The Management Packet Capture Option was missing hardware models E100 and E50 which did not consider the MGT attribute.	9.1.0.0.0	9.1.0.1.0

ID	Description	Found In	Fixed In
33294543	Problem Statement: You may not be able to create a DHCP subnet using the configuration editor.	9.1.0.0.0	9.1.0.1.0
33344915	Problem Statement: The database clean script is unable to clean the stats database.	9.1.0.0.0	9.1.0.1.0
33312790	Problem Statement: You may not be able to add a global firewall policy template from the Web UI.	9.1.0.0.0	9.1.0.1.0
32729388	Problem Statement: The hard disk usage alert continues to display in the UI after addressing the issue.	9.1.0.0.0	9.1.0.1.0
33381683	Problem Statement: 1. You may observe poor performance for traffic going from NCN to client sites. 2. A service impacting memory dump may occur during change management.	9.1.0.0.0	9.1.0.0.1
32241462	Problem Statement: On the QoS, Rules Statistics page the table column headers are shifted right by one column. Workaround: Read the data in the table by associating the data in the column to one header to left.	9.0.1.1.0	9.1.0.0.0
32240517	Problem Statement: Instead of showing the application name, the filter policies statistics page displays the application index. Workaround: Determine the application name from the application index. Go to Configuration, View, Configuration, Firewall, Firewall Filter Policies page.	9.0.1.1.0	9.1.0.0.0