

Oracle® SD-WAN Edge

Release Notes



Release 9.0
F29169-08
September 2022

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

ORACLE®

Oracle SD-WAN Edge Release Notes, Release 9.0

F29169-08

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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 Configuration File Reference	Contains information about the structure, language, and defaults of the Oracle SD-WAN Configuration File in detail.

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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.
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- 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.

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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
May 2020	<ul style="list-style-type: none">Initial release.
June 2020	<ul style="list-style-type: none">Updates the "Known Issues" topic.
August 2020	<ul style="list-style-type: none">Updates the "Known Issues" topic for Release 9.0.0.1.0.Updates the "Known Issues" topic for Release 9.0.0.1.1.
October 2020	<ul style="list-style-type: none">Updates for 9.0M1.
December 2020	<ul style="list-style-type: none">Updates the "Known Issues" topic for Release 9.0.1.1.0.
March 2022	<ul style="list-style-type: none">Updates the 9.0 "Documentation Changes" topic.Updates the "Known Issues" topic for Release 9.0.1.2.0.
September 2022	<ul style="list-style-type: none">Updates the Known Issues table.

1

Introduction to Oracle SD-WAN Edge 9.0

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 9.0 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 9.0 supports appliances functioning as Network Control Nodes (NCNs) or Client Nodes.

The following Oracle SD-WAN appliances are supported by this release:

- Physical Appliances: E50, T860, E100, E500, T3010, E1000, T5000, T5200, D2000, D6000
- Virtual Appliances: VT800, VT800-128, CT800, CT800-128.



Note:

The E50 appliance only functions as a Client Node.

Physical Appliances Scaling

The following table details the network scale for each appliance model when running Oracle SD-WAN Edge 9.0.

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
T860	32	16	216	216	64,000	8,000	8	32
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
T3010	128	32	576	576	256,000	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

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
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 Talari APN may be upgraded to Oracle SD-WAN Edge version 9.0.0.0.0.

- 8.2

Upgrade Considerations

- 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 9.0 is used with the following versions of the Talari OS / Oracle SD-WAN OS:

- OS 7.0.x (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 9.0 is supported in combination with the following versions of Aware:

- Oracle SD-WAN Aware 9.0

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:

- Microsoft IE9 - IE11
- Mozilla Firefox
- Google Chrome

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

Documentation Changes

The following information describes structural changes to the documentation for the SD-WAN Edge 9.0 release.

- Removes the "OCI IaaS Configuration" topic from the Virtual Talari Appliance Installation chapter in the *SD-WAN Edge Virtual Appliance Installation Guide* and adds the "Install SD-WAN Edge from the Oracle Cloud Marketplace" topic.

Deprecated Features

This section lists features deprecated in this release.

Nagios Monitoring

Nagios Monitoring is no longer supported.

2

New Features

The Oracle SD-WAN Edge 9.0. release supports the following new features and enhancements.

Configuration Editor Update

The Configuration Editor features major updates for usability.

See the [Configuration Editor Changes](#) section in the Interface Changes chapter, and the "Configuration Editor" section in the *Features Guide*, for more details.

Multi-Version Support

You can upgrade and downgrade between two major sequential releases of Oracle SD-WAN Edge on a single network using the Selective Software Update feature. You are able to upgrade on a rolling basis and customize the update schedule. See the [Multiversion Support](#) section for a list of releases compatible across your APN.

See the "Multi-Version" section in the *Features Guide* for more details.

Microsoft Azure Virtual WAN Integration

Azure Virtual WAN can be integrated with Oracle SD-WAN Edge and added as a service to the Edge platform.

See the "Microsoft Azure Virtual WAN" section in the *Features Guide* for details.

REST API

Oracle SD-WAN Edge provides a REST API for software configuration and system monitoring. Documentation is provided with an OpenAPI Specification ver. 2 file that you may read with a standard Swagger viewer. Please contact your Oracle representative for more information.

Security Enhancements

Password security has been updated to include the following changes:

- Upon first sign on, users are forced to change the password. REST API access will be denied until the user password has been changed.
- Password strength is enforced to be between 8 and 128 characters.
- Compromised and common passwords will be rejected.

3

9.0M1

The following topics provide descriptions, explanations, and configuration information for the contents of Maintenance Release 9.0M1, also referred to as 9.0.1.0.0. Unless otherwise stated, requirements and other release information is identical to 9.0 (9.0.1.0.0) GA, noted in the first chapter of this document.

New Features in 9.0M1

The Oracle SD-WAN Edge 9.0M1 release includes the following new features and enhancements.

VRF Expansion

Oracle SD-WAN Edge now supports up to 128 VRFs per device.

1Gbps OCI Support

Oracle SD-WAN Edge now supports an aggregate throughput of 1000 Mbps full-duplex of bulk SD-WAN traffic when running on Oracle Cloud Infrastructure (OCI). This performance level requires VM.Standard.2.8 instance type. See "Virtual Machine Specifications" in the *Virtual Appliance Installation Guide* for details.



Note:

Initial sign-in to Oracle SD-WAN Edge running on OCI now requires an SSH keypair, where you provide the public key at image instantiation on the OCI console.

USB Installation of Edge Software

You can now create a bootable USB drive for Edge software on the E50 and E100.

See "Creating a Bootable USB Drive on Linux" and "Creating a Bootable USB Drive on Windows" in the *Oracle Talari E50 Hardware Guide* and the *Oracle Talari E100 Hardware Guide*.

Service Chaining Support for Oracle ESBC and Check Point Firewall

The service chaining feature now supports deployment of Oracle Enterprise Session Border Controller and Checkpoint firewall as guest VMs on the E100 appliance.

See the new *Service Chaining Guide* for details.

Wake on LAN Packet Support

Oracle SD-WAN Edge now supports subnet directed broadcasts on virtual interfaces, which are used primarily to enable Wake on LAN-type packets.

See the *Features Guide* for more details.

Documentation Changes

This topic describes documentation changes in the 9.0M1 release.

- Adds Service Chaining Guide to the documentation set.

4

Interface Changes

Application Interface Changes

This section describes changes to the interface in Oracle SD-WAN Edge Release 9.0.

Menu Structure

The Configuration Editor is divided into 4 main menu sections:

- Home: The landing page for the configuration editor
- All Sites: Contains configuration for sites
- Application Policies: Contains configuration for Application, Policies, and Application Categories
- Global: Contains all the secondary objects used for configuring sites.

Navigation Tree Removal

There is no longer a navigation tree available. All objects are available from the new menu structure described above.

Home Page

The Configuration Editor interface now features an "at a glance" landing page, divided into four groups:

- Sites by Region
- Sites by Model
- Applications
- Policies

You can choose to view this as a simple table, or as a pie chart.

Sites

Site configuration is now under Sites, and not under Connections and Provisionings.

Quick Site Add

Click on the + button above any of the site titles to to open the new site screen to add a new site.

Selective Software Update

The Change Management menu now features Selective Software Update, where you can deploy two major releases of SD-WAN on one system. See "Selective Software Update" in the *Features Guide* for more information.

Configuration Editor Changes

This section describes changes made to the Configuration Editor in Oracle SD-WAN Edge Release 9.0.

Regions

Regions can now have sites assigned to them. You can add one region per site.

See "Regions" in the "Site Configuration" section of the Configuration Editor documentation for details.

User Tags

User tags are used to associate a business level context to a site in order to identify the site's purpose. The three default user tags are Data Center, Regional Branch, and Branch. A site can only be associated with one tag. You can also filter sites by user tag.

See "User Tags" in the "Site Configuration" section for details.

Manage Sites

You can perform mass updates on sites using the Manage Sites feature, such as managing regions and user tags.

Manage Configurations

You can now perform the following actions from the Configuration Management screen:

- Create a new configuration
- Import a configuration file
- Clone a configuration
- Delete a configuration
- Edit the name of a configuration file and add comments
- Download a configuration file
- Export the configuration file to Change Management
- Lock or unlock a configuration file

Importing Configuration

Once you've imported a configuration file, you can use the Manage Configuration option to set a configuration active so you can edit the file.

Locking/Unlocking Configuration

On the Manage Configuration screen, you can lock and unlock a configuration file. When locked, any changes made to the file cannot be saved. When unlocked, changes can be saved.

Advanced View

When configuring a site, check Advanced to open advanced settings and disable Basic mode.

Define Interfaces

Interface Groups and Virtual IP Addresses have been combined into the Define Interfaces section.

Site Search

You can search for site names, as well as filter by model type or user tag.

Object Renaming

The following objects have been renamed:

- Rule Groups has been renamed to MOS Groups
- Default Sets has been renamed to QoS Policies

Oracle Defined Applications

Once you have imported the Oracle Defined Application preset file, you do not need to import it again.

Inline Editing

For any object that does not have an Edit icon available, double click on the row in order to make edits.

Unlinking

You can no longer unlink a QoS Policy (formerly Default Set) classes from a site.

Revert

The Revert option has been removed.

Local Rules and Classes

Local rules and classes have been removed from site services. All services must now be assigned to a QoS Policy instead.

Audit

The Configuration Editor no longer performs a full audit when a change is made. Click on the Audit button at the top of the page to perform a full audit.

Configuration Editor Navigation Changes

The following table shows where objects have moved to in Oracle SD-WAN Edge Release 9.0.

Table 4-1 Navigation Changes

Configuration Object	New Location
Basic Settings	Global, Basic Settings
Cloud Security Settings	Global, Basic Settings
DHCP Option Sets	Global, DHCP Option Sets
Firewall Policy Template	Global, Firewall Policy Template
Firewall Zones	Global, Firewall Zones
Rule Groups	Global, MOS Groups
Default Sets	Global, QoS Policies
Regions	Global, Regions
Routing Domains	Global, Routing Domains
Service Providers	Global, Service Providers
Services	Global, Services
Site Templates	Global, Site Templates
User Tags	Global, User Tags
WAN-to-WAN Forwarding	Global, WAN-to-WAN Forwarding
Application Policies	Application Policies, Create and Manage Policies
User Defined Applications	Application Policies, Create and Manage Applications
Oracle Defined Applications	Application Policies, Create and Manage Applications
Application Categories	Application Policies, Application Categories
Import Presets	Application Policies, Import Applications Presets File
Regenerate Secure Keys	Username, Regenerate All Secure Keys
Sites Basic Settings	All Sites, Sites, Basic Settings
Sites Define Interfaces	All Sites, Sites, Define Interfaces
Sites WAN Links	All Sites, Sites, Define WAN Links
Sites Conduits	All Sites, Sites, Services, Conduits
Sites Dynamic Conduits	All Sites, Sites, Services, WAN-to-WAN Forwarding / Dynamic Conduits
Sites WAN-to-WAN Forwarding	All Sites, Sites, Services, WAN-to-WAN Forwarding / Dynamic Conduits
Sites Cloud Services	All Sites, Sites, Services, Cloud Services
Sites Internet Services	All Sites, Sites, Services, Internet Services
Sites Intranet Services	All Sites, Sites, Services, Intranet Services
Routes	All Sites, Sites, Routing
OSPF	All Sites, Sites, Routing - OSPF and BGP
BGP	All Sites, Sites, Routing - OSPF and BGP
Import Filters	All Sites, Sites, Routing, Import Filters & Export Filters
Groups Provisioning	All Sites, Sites, Provisioning Groups
Services Provisioning	All Sites, Sites, Provisioning Services
DHCP	All Sites, Sites, Advanced, DHCP
DNS Proxy	All Sites, Sites, Advanced, DNS Proxy

Table 4-1 (Cont.) Navigation Changes

Configuration Object	New Location
LAN GRE Tunnels	All Sites, Sites, Advanced, LAN GRE Tunnels
IPSec Tunnels	All Sites, Sites, Advanced, IPSec Tunnels
Sites Firewall	All Sites, Sites, Advanced, Firewall
Certificates	All Sites, Sites, Advanced, Certificates
High Availability	All Sites, Sites, Advanced, High Availability

5

Known Issues - SD-WAN Edge

The following tables list the known issues in version 9.0 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
32373740	When a user tries to configure email alerts (under Event Management, Configure Alarms or Event Management, Configure Alerts/Events), the SMTP Server Hostname or IP Address box does not accept a valid hostname.	4	9.0.1.0.0

Resolved Issues

The following table lists previous Known Issues that are now resolved.

ID	Description	Found In	Fixed In
32241462	On the QoS -> Rules statistics page the table column headers are shifted right by one column. Workaround: data in the table has to read by associating the data in the column to one header to left.	9.0.1.1.0	9.0.1.2.0

ID	Description	Found In	Fixed In
32095084	<p>Browser window will slowdown momentarily while loading the table for each routing domain on Statistics > WAN > Routes page.</p> <p>Workaround: Wait for the data to be loaded on Statistics > WAN > Routes page.</p>	9.0.1.0.0	9.0.1.2.0
32240517	<p>Instead of showing the application name, the application index is displayed on the filter policies statistics page.</p> <p>Workaround: Need to figure out the application name from the application index on Configuration -> View Configuration -> Firewall -> Firewall Filter Policies page.</p>	9.0.1.1.0	9.0.1.2.0
32014542	<p>When adding a WAN link, configuring the access interface in that WAN Link is not possible if the access interface is configured with a virtual interface that has a DHCP Client set.</p> <p>Workaround:</p> <p>It can be done by;</p> <ol style="list-style-type: none"> <li data-bbox="646 1325 834 1373">1. Export the configuration <li data-bbox="646 1394 899 1442">2. Manually modifying the configuration file <p>Import the modified configuration</p>	9.0.1.0.0	9.0.1.1.0
32012947	<p>Even though the protocol numbers can range from 1 to 16, the validator only allows the protocol range 6 to 15.</p> <p>Workaround:</p> <p>To include/exclude the protocols 1,2,3,4,5,16 together, use * in the protocol.</p>	9.0.1.0.0	9.0.1.1.0

ID	Description	Found In	Fixed In
32015869	<p>Importing configs with "compiler_version=9_0_0_1_0" up to "9_0_1_0_0" will fail with an error that an import of the given version is not supported.</p> <p>Workaround:</p> <p>To clear the error edit the configuration to modify the compiler version to "compiler_version=9_0".</p>	9.0.1.0.0	9.0.1.1.0
32021174	<p>Snmpd is continuously restarting filling up multiple log files, in particularly the APN_webconsole.log and init.log files. There is no risk to the system as the amount of information logged is minimal and the log files are truncated, compressed and archived after reaching certain size.</p>	9.0.1.0.0	9.0.1.1.0
32033635	<p>Entering a port range under Rules -> Rule Basics -> Port table incorrectly displays an error saying "Input must be integer value". A valid port range should be allowed.</p>	9.0.1.0.0	9.0.1.1.0
31989100	<p>The High Availability section in the site clone dialogue is missing.</p> <p>Workaround:</p> <p>After cloning, go to the new cloned site to update HA info manually.</p>	9.0.1.0.0	9.0.1.1.0
31996110	<p>Upon upgrade to R9.0.1.0.0 and error dialogue will be displayed when opening a configuration with HA.</p> <p>Workaround:</p> <p>The error dialogue may be closed and configuration continued without impact.</p>	9.0.1.0.0	9.0.1.1.0

ID	Description	Found In	Fixed In
32009955	In Route Edit dialog, "Path" drop-down may not be visible if "Eligibility Based On Path" is set. Workaround: Toggle the "Eligibility Based On Path" checkbox as an alternative.	9.0.1.0.0	9.0.1.1.0
32188468	Packets sending to LAN may be dropped based on local network setup (netmask) and packet's destination IP address.	9.0.1.0.0	9.0.1.0.1
31352442	On the D2000 and D6000 appliances, when link flaps on one of the motherboard Broadcom ports, the link on the port may flap as well.	8.2.1.0.0	9.0.1.0.0
31435320	Site cloning is not currently supported in release 9.0.0.0.0.	9.0.0.0.0	9.0.1.0.0
31229441	If there are more rules than can easily fit on a single page, the Search field cannot be used to quickly filter to specific ones.	9.0.0.0.0	9.0.1.0.0
31613695	When the OS Partition process is started, from the Reboot screen navigation back to the "OS Partition" Screen to make any further changes is not possible.	9.0.0.1.0	9.0.1.0.0
31613719	"Select File" When the appliance is in the disabled state, "Select File" will not be possible. The appliance will need to be enabled to allow it.	9.0.0.1.0	9.0.1.0.0
31600354	The Path Summary Statistics Page does not display all the Paths available on the appliance.	9.0.0.1.0	9.0.1.0.0

ID	Description	Found In	Fixed In
31644789	New Azure Virtual WAN Service cannot be configured. Changes to Azure Virtual WAN HUB's already configured in Azure Virtual WAN Service cannot be made. Existing Azure Virtual WAN configurations may not be impacted if they are working.	9.0.0.1.0	9.0.0.1.1
30654905	A service impacting restart may happen due to MySQL corruption during reboot.	8.2.1.0.0	9.0.0.0.0
30817956	When Dynamic conduit is enabled with HA enabled on the client, and IPsec on the Conduit between client and NCN, dynamic conduit paths may disappear.	8.2.1.0.0	9.0.0.0.0
30801448	Service impacting memory dump will occur if the client IP and Gateway IP is same in the DHCP ACK response.	7.3.0.5.0	9.0.0.1.0
31069263	For SNMP V1/V2, SNMPD process may restart continuously and fill the webconsole logs. The problem does not present itself for SNMP V3.	7.3.0.12.0	9.0.0.1.0
31247742	A service impacting restart may be observed when multiple NAT Port forwarding rules with same Internal IP & port details are configured.	8.1.0.2.0	9.0.0.1.0
31019111	There may be a service impacting restart if the database archive takes a long time or hangs.	8.2.0.1.0	9.0.0.1.0
31386734	Service impacting restart may occur during configuration update.	8.2.1.1.0	9.0.0.1.0
31104344	Maximum Dynamic Conduit is shown under View Configuration, even though it is not configured.	8.2.1.1.0	9.0.0.1.0

ID	Description	Found In	Fixed In
31446473	When navigating to the configuration editor it will link to a URL destination that is the same IP but redirects to Port 8443 which may cause firewall issues for specific configurations.	9.0.0.0.0	9.0.0.1.0
31407280	An appliance may reboot during software update if the software update takes longer than 120 seconds.	9.0.0.0.0	9.0.0.1.0
31402418	An error message "Site <Name>has more than eight public internet wan links" will be displayed if over seven WAN links are defined and attempted to be edited. Eight WAN links can be added but only seven can be edited.	9.0.0.0.0	9.0.0.1.0
31402528	In define WAN links edit pane, VIP name may be incorrectly displayed and VIP IP address is incorrectly displayed for selected access interface. When configuration is exported values are correct.	9.0.0.0.0	9.0.0.1.0
31416594	Changing local network settings cannot be done through the UI. Workaround: Change the settings in local networks settings, such as port speed and duplex settings, through the CLI interface instead of the UI.	9.0.0.0.0	9.0.0.1.0

ID	Description	Found In	Fixed In
31415439	<p>When upgrading an existing device/VM or adding a new device/VM (when either is in standby mode or with the service disabled) which has the default password prior to upgrade, changing the default password or logging with the default will not be possible. For existing devices, if a non-default password is set then this will not be an issue.</p> <p>Workaround: Flip HA, making the standby device active, and then change the password. If the device in question is disabled, SSH into the device and change the password with the new password change prompt.</p>	9.0.0.0.0	9.0.0.1.0
31430007	<p>Bridging is not possible for virtual devices. The workaround is to change to a physical device type.</p>	9.0.0.0.0	9.0.0.1.0
