# Oracle® SD-WAN Edge Release Notes





Oracle SD-WAN Edge Release Notes, Release 8.2

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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.

## 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 <a href="http://www.oracle.com/us/support/contact/index.html">http://www.oracle.com/us/support/contact/index.html</a>. 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 <a href="http://www.oracle.com/us/support/contact/index.html">http://www.oracle.com/us/support/contact/index.html</a>. 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.
- 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
September 2019	Initial release.
January 2020	<ul> <li>Updates Known Issues to correspond with 8.2.0.1.0 release.</li> <li>Adds Customer Build Notes to correspond with 8.2.0.1.0 release.</li> </ul>
February 2020	Updated for the 8.2M1 release.
March 2020	<ul> <li>Updates OS Compatibility section to include new OS7.0.1 release.</li> </ul>
May 2020	Updates Known Issue table for 8.2.1.1.0 patch release.
July 2020	Updates Known Issue table for 8.2.1.2.0 patch release.
September 2020	Updates Known Issues table for 8.2.1.3.0 patch release.
October 2020	Updates Known Issues table for 8.2.1.3.1 release.
November 2020	Updates Known Issues table for 8.2.1.4.0 release.
February 2021	Updates Known Issues table for 8.2.1.5.0 release.
April 2021	Updates Known Issues table for 8.2.1.5.1 release.
June 2021	Updates Known Issues table for 8.2.1.6.0
March 2022	Updates Known Issues table for 8.2.1.8.0.
July 2022	Updates Known Issues table for 8.2.1.9.0 and 8.2.1.10.0.
September 2022	Updates the Known Issues table.



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## Introduction to Oracle SD-WAN Edge 8.2.0.0.0

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 8.2.0.0.0 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 8.2.0.0.0 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.



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 8.2.0.0.0.

Applianc e 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

Applianc e Model	Static	Max Dynamic Conduits		Max WAN Egress Paths	Max Flows (TCP Term off)	Max Flows (TCP term on)	Max Public WAN Links	Max Private WAN Links
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

Platfor m	Max Static Conduit s	Max Dynami c Conduit s	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
CT800-1 28 <sup>1</sup>	128	32	576	576	256,000	16,000	8	32

<sup>&</sup>lt;sup>1</sup> CT800\_128, supported as NCN.

#### **VT800 Virtual Appliance Scaling**

Platform / Base Conduit	Max Static Conduit s	Max Dynami c Conduit s	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
VT800-1 28 <sup>1</sup>	128	32	576	576	256,000	16,000	8	32

<sup>&</sup>lt;sup>1</sup> VT800\_128, supported as NCN.

## **Upgrade Information**

### **Application Upgrade Paths**

The following versions of Talari APN may be upgraded to Oracle SD-WAN Edge verison 8.2.0.0.0.

- 7.3
- 8.0
- 8.1

#### **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.

## OS Compatibility

Oracle SD-WAN Edge 8.2.x 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 8.2)
- OS 5.2 (Debian based OS only provided for D2000 and D6000)
- OS 5.1 (Debian based OS)

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

## **Coproduct Support**

Oracle SD-WAN Edge 8.2.0.0.0 is supported in combination with the following versions of Aware:

Oracle SD-WAN Aware 8.2.0.0.0

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**

For the Oracle SD-WAN Aware and Edge 8.2.0.0.0 release, the customer documentation has changed as follows:

• Documentation for Oracle SD-WAN OS (previously Talari OS) is centralized into the Oracle SD-WAN OS Release Notes and Upgrade Guide.



## **New Features**

The 8.2. release supports the following new features and enhancements.

#### **Oracle Standardized Appearance**

This version of the product now reflects Oracle's standard for branding and appearance.

ID: 19315

#### Performance Enhancements on D2000 and D6000

The D2000 and D6000 appliances have enhanced performance in this version including delivering 3 Gbps of bulk throughput on the D2000 and 7Gbps of bulk throughput on the D6000.

ID: 19091

#### **Oracle Enterprise Linux Support**

This version of the product now relies upon Oracle Enterprise Linux. No user interaction is required.

ID: 19324

#### **Oracle Standardized Versioning**

The documentation and products now reflect Oracle's standard 5-digit code for versioning. Use the following table to map from the legacy to the current numbering scheme:

Digit Place	Oracle Definition	Legacy Talari Definition
1	Major	Major
2	Minor	Minor
3	Maintenance Release	unused
4	Patch Set	Patch
5	Patch	Hyperfix

For example, in legacy terms Release 8.1 P2 H1 would now be numbered 8.1.0.2.1.

ID: 19153

## 8.2M1 Release

The following topics provide descriptions, explanations, and configuration information for the contents of Maintenance Release 8.2M1, also referred to as 8.2.1.0.0. Unless otherwise stated, requirements and other release information is identical to 8.2 (8.2.0.0.0) GA, noted in the first chapter of this document.

## **New Features**

The 8.2M1 release supports the following new features.

#### **KVM Platform Support**

Oracle SD-WAN Edge Virtual Appliances can now be deployed on Linux Kernel Virtual Machine (KVM) as a supported platform.

KVM requires Oracle SD-WAN Edge OS 7.0 and later.

See the new Oracle SD-WAN Edge Virtual Appliance Installation Guide for more information.

#### **HA Support on Virtual Platforms**

High Availability (HA) failover is now supported for Oracle SD-WAN Edge Virtual Appliances deployed on Linux KVM and VMWare ESXi platforms.

HA Support on Virtual Platforms requires Oracle SD-WAN Edge OS 7.0 and later.

See the new Oracle SD-WAN Edge High Availability Guide for more information.

#### **OCI Cloud Platform Support**

Oracle SD-WAN Edge running as a virtual appliance can now be deployed on Oracle Cloud Infrastructure (OCI) in order to take advantage of Infrastructure as a Service (IaaS) resources.

OCI deployment requires Oracle SD-WAN Edge OS 7.0 and later.

See the new Oracle SD-WAN Edge Virtual Appliance Installation Guide for more information.

## **Documentation Changes**

Coinciding with the Oracle SD-WAN Edge 8.2M1 release, the customer documentation has changed as follows:

- The legacy Virtual Appliance Requirements and Installation Guide has been added to the Oracle SD-WAN Edge 8.2 documentation set as the Oracle SD-WAN Edge Virtual Appliance Installation Guide.
- The legacy High Availability Guide has been added to the Oracle SD-WAN Edge 8.2 documentation set as the *Oracle SD-WAN Edge High Availability Guide*.

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## Known Issues - SD-WAN Edge

The following tables list the known issues in version 8.2 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.

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
33702817	Some log files, like dynamic_routing.log, are not recreated after deleting them.  Workaround: Restarting	3	8.2.1.7.0
	the BIRD process recreates dynamic_routing.log		
33806764	Performance reports showing incorrect information.	4	8.2.1.8.0
33577521	Edge is sending a NAS-IP-Address of 127.0.0.1 instead of its real IP address.	3	8.2.1.7.0
32986534	VT800/VT800_128 Standby Excessive Messages in Common Log.	3	8.2.1.6.0
33690699	Management IP DHCP inconsistent on different OS.	2	8.2.1.7.0
34214504	Not able to make configuration changes due to issues with configuration editor.	2	8.2.1.8.0
34281045	TCP term cause memory dump.	2	8.2.1.9.0
34214917	Diagnostic causes HA flip.	3	8.2.1.9.0
30654905	A service impacting memory dump may happen due to MySQL corruption during reboot.	2	8.2.1.0.0



ID	Description	Severity	Found In	
33271781	Internet Route still reachable in routing table after internet link is disabled.	2	8.2.1.5.1	
33592310	Incorrect conduit status information on landing dashboard after upgrade.	2	8.2.1.7.0	

## **Resolved Issues**

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

ID	Description	Found In	Fixed In	
33470576	NCN drops Conduits to all Sites and shows deadman timeouts.	8.2.1.7.0	8.2.1.10.0	
33206028	Customers will not get any warning from the UI if NTP goes out of sync.	8.2.1.6.0	8.2.1.9.0	
33754018	Return traffic from internet and intranet services may get dropped.	8.2.1.8.0	8.2.1.9.0	
33646521	If the customer tries to download packet capture while the packet view is still loading, the page will be unusable to take other packet captures.	8.2.1.8.0	8.2.1.9.0	
33789188	Duplicate Ethernet port numbers may get displayed on the packet capture screen.	8.2.1.8.0	8.2.1.9.0	
33600230	SNMP commands can be executed even though it is disabled from the UI.	8.2.1.7.0	8.2.1.9.0	
33391550	Service impacting core dump can occur when DNS proxy is configured and DNS over TCP is used by the customer.	8.2.1.6.1	8.2.1.9.0	
33748973	Dynamic Conduit may form only in one direction in a high traffic scenario.	8.2.1.7.0	8.2.1.9.0	



ID	Description	Found In	Fixed In
33699816	The /etc/crontab file may be missing under certain scenarios causing any scheduled tasks not to run.	8.2.1.7.0	8.2.1.9.0
33541816	Coredump on a regular basis.	8.2.1.7.0	8.2.1.9.0
33495032	Removal of PA service chain can result in high disk usage which may cause service to clean/service restart continuously.	8.2.1.5.1	8.2.1.9.0
33532181	IPSec Tunnel not coming up.	8.2.1.5.1	8.2.1.9.0
33286234	Munin logging not included in diagnostics	8.2.1.7.0	8.2.1.9.0
33618327	All HTTP/HTTPS traffic between certain sites & the NCN was significantly degraded. A forced HA swap improves the performance.	8.2.1.7.0	8.2.1.10.0
33585765	D2000 Interface 9 and 10 not working after trying different SFP+ transceivers, cabling and peer devices. Workaround: Firmware upgrade of the SFP+ interfaces.	8.2.1.7.0	8.2.1.10.0
33775603	Client site and NCN temporarily detected a config mismatch, but no config changes seen at either site.	8.2.1.5.1	8.2.1.10.0
33911839	Client Sites Core dump on Routine Configuration Change.	8.2.1.7.0	8.2.1.10.0
33115106	Even if the Internet/ Intranet service at a site goes down, the routes for that service will still be exported out to the client sites via WAN to WAN forwarding.	8.2.1.5.1	8.2.1.10.0



ID	Description	Found In	Fixed In
32903493	While staging new config with client site up but before activation if client site goes down (WAN Links not available or power issue at site) and it is activated while that site doesn't have a conduit to NCN. When site comes back up, it can't get new configuration, nor can it initiate a conduit to the NCN.	8.2.1.5.0	8.2.1.8.0
	Workaround: Creating a diagnostic causing the Conduit to come back up		
32982027	E100 Reboot Needed to Restart Oracle SD- WAN Edge Service	8.2.1.6.0	8.2.1.6.1
32733443	init.log file that's under /home/ talariuser/log is growing too big	8.2.1.5.1	8.2.1.7.0
32726896	Flows matching wrong application.	7.3.0.13.0	8.2.1.7.0
32908507	Fail to Wire Not Functioning on Standby in Serial HA with OS 7.0.4 Workaround: SSH into the device and type "t2_init -b", however workaround doesn't	8.2.1.4.0	8.2.1.7.0
32902434	stick after a reboot.  Reports > Performance : Archive Option Missing from Web UI	8.2.1.5.0	8.2.1.7.0
32892722	Management Packet Capture Option Missing.	8.2.1.5.1	8.2.1.7.0
33058963	init.log filling up with snmpd status messages	8.2.1.6.0	8.2.1.7.0
32962206	E100 core dumps upon taking a diagnostic.	8.2.1.6.0	8.2.1.7.0
33308258	NCN connection table fills up and stops processing traffic.	8.2.1.6.1	8.2.1.8.0



ID	Description	Found In	Fixed In
32320166	Packet captures missing from diagnostic dump.	8.2.1.4.0	8.2.1.8.0
33396849	Customer may not be able to achieve the full permitted traffic rate as 2% of bandwidth is reserved for control traffic. This can cause high utilization on links over 100Mbps. Changes have been made so that links having bandwidth below 100Mbps still reserve 2% and links above 100Mbps reserve a flat 2Mbps for control traffic.	8.2.1.4.0	8.2.1.8.0
32920548	Failed OS Upload Filling up Storage	8.2.1.5.1	8.2.1.8.0
33408166	Ingress and Egress Max Packet Size different.	8.2.1.4.0	8.2.1.8.0
33038291	SNMPD is constantly restarting.	8.2.1.6.0	8.2.1.8.0
33073913	Some log files not rotating.	8.2.1.6.0	8.2.1.8.0
33149923	Restart Routing does not work.	8.2.1.5.1	8.2.1.8.0
33205561	Device stall impacting performance.	8.2.1.6.1	8.2.1.8.0
33293258	HA Flip when customer tries to create a diagnostic.	8.2.1.1.0	8.2.1.8.0
32367198	As the disc space utilization exceeds 70% there is a warning alert being shown in the UI	8.2.1.4.0	8.2.1.6.0



ID	Description	Found In	Fixed In
32166708	Slowness observed in UI, some values in dashboard screen was not displayed.	8.2.1.2.0	8.2.1.6.0
	Workaround steps: First verify if storage directory for T2_Config is missing.		
	If yes, initiate reinitializing database which lost the storage directory due to system crash or other unexpected activity.		
	{code:java} // recreates T2_Config database		
	sudo /usr/bin/perl / home/talariuser/bin/ t2_config_db.pl		
	// httpd restart sudo service httpd restart		
	// restart Oracle service from UI		
	{code}		
32604032	Firewall logs will have connection is invalid logs and TCP Connections will times out after upgrading to 8.2.1.5.0	8.2.1.5.0	8.2.1.5.1
32624685	Service impacting memory dump occurs when DNS server sends a response with greater than 100 records (qnames)	8.2.1.5.0	8.2.1.5.1
32078428	Override to Internet service no longer works when there is a flow or route mismatch	8.2.1.2.0	8.2.1.5.0



ID	Description	Found In	Fixed In
32063657	When Active OS partition storage hits the storage limit, SNMPD service restart happens. This causes removal of the configured SNMP user file and leads to continuous SNMP restart Workaround:	8.2.1.2.0	8.2.1.5.0
	Reconfigure the SNMP user		
31901062	Service impacting Memory dump may happen in case of high traffic resulting in high number of events.	8.2.1.2.0	8.2.1.4.0
31866536	Last Resort WAN Link with Heart beat disabled is still letting traffic pass through it when regular wan links are available.	8.2.1.2.0	8.2.1.4.0
31821629	Intermittent issues connecting to services may occur in case of memory leak in high traffic scenario.  Workaround:	8.2.1.2.0	8.2.1.4.0
	Rebooting the device clears the memory leak.		
31774798	When more than one WAN link with the same public IP address ("public IP learning" config is enabled) and different ports are configured,	7.3.0.12.0	8.2.1.4.0
	it keeps flipping between those WAN links.		
31352442	On a D2000/D6000, when taking a motherboard (port 9 or 10) port down and up, the second port on motherboard is taken down and up	8.2.1.0.0	8.2.1.4.0



ID	Description	Found In	Fixed In
31294261	A service impacting memory dump may happen in D6000 when heavily used via 4X1G port in a network containing over 200 sites.	8.2.1.1.0	8.2.1.3.0
31019111	There may be a service impacting memory dump if the database archive takes a long time or hangs	8.2.0.1.0	8.2.1.3.0
31104344	Maximum Dynamic Conduit is shown under View Configuration, even though it is not configured	8.2.1.0.0	8.2.1.2.0
31019107	There may be a service impacting memory dump during a configuration change like adding a local route in the configuration	7.3.0.10.0	8.2.0.1.0
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	8.2.1.2.0
30850275	OS swap from OS_7.0.0.0.0_GA_11 122019 to OS 5.1 may fail for Virtual appliance (KVM).	7.0.0_OS	7.0.1_OS
30792564	A service impacting memory dump may happen when dynamic conduit between two sites is enabled and a config change happens where autopath group has different DSCP value than the previous config file.	8.2.1.0.0	8.2.1.1.0
30781290	A service impacting memory dump may happen on the D6000 platform during a reboot or disable/ enable of services.	8.2.1.0.0	8.2.1.1.0



ID	Description	Found In	Fixed In
30701124	A service impacting memory dump may happen when a configuration is uploaded that has dynamic NAT policy configured for Intranet service utilizing multiple MPLS Queues in a primary, secondary configuration.	8.2.0.0.0	8.2.1.0.0
30777788	If the total WAN links available to a Conduit exceed 4Gbps, the Link Share value will wrap, resulting in a low Upper Limit provisioning.	8.2.0.0.0	8.2.1.0.0
30292834	When stopping a VT800 VM in Hyper-V environment, it might get stuck in the Stopping (0%) state. Workaround: reboot the host machine.	NA	8.2.0.1.0



ID	Description	Found In	Fixed In
30340596	Adding whitelisted management interfaces in with the Configure> Local Network Settings> Management Interface Whitelist option does not work.  Workaround: Add whitelisted management interfaces with the CLI:	SD-WAN OS7.0	8.2.0.1.0
	Access your SD- WAN Edge device through command line.		
	2. 2. Enter the following command "t2_mgt_acl allow <network>"</network>		
	#: t2_mgt_aclallow 172.17.200.172/32		
	1. Verify by accessing the SD-WAN Edge GUI at Configure> Local Network Settings> "Management Interface Whitelist". Your ACL will be added successfully.		
30361515	When SSHing into Oracle SD-WAN Edge 8.2 running on OS7 with a RADIUS or TACACS+ username, users are incorrectly prompted to enter the "talariuser" password in the CLI and shell. Workaround: Log in as a local user or use the web console for SD- WAN Edge administration.	8.2.0.0.0	8.2.0.1.0



ID	Description	Found In	Fixed In
30214096	The functionality of "Autonegotiate" checkbox in "Ethernet Interface Settings" is automatically changing the Speed and Duplex to 1000Mb/s and Full respectively for a particular mac address.	NA	8.2.0.0.0
30214104	T5200 CPU profile optimizations as well as general packet scheduler enhancements have been made to significantly improve performance and stability during heavy load across large networks.	NA	8.2.0.0.0
30214110	Help text referencing "Classification:" is updated	NA	8.2.0.0.0
30214176	User-defined application which includes DSCP tag as a match criteria. This fix address the scenario if the DSCP value differs with in a flow, then the correct application match should happen based on the new DSCP value, instead of always matching the old DSCP value.	NA	8.2.0.0.0
30214328	From web UI, stats for rule, the WAN egress kbps may show number bigger than actual throughput. No impact to other functions.	NA	8.2.0.0.0
30038195	Internet/intranet traffic may not be able to fully use the bandwidth available when its fair share is set relatively low compared to conduit service on the WAN link with high bandwidth.	8.1.0.1.0	8.2.0.0.0



ID	Description	Found In	Fixed In
30214140	When using ZTP to bring up the secondary site with a package size greater than max file upload and post size, ZTP Web UI continuously appears to upload the package. Secondary site never receives the package.	NA	8.2.0.0.0
30214128	When doing config update to remove internet/intranet service and its corresponding NAT rule with port forwarding, it may cause service impacting memory dump.	NA	8.2.0.0.0
30203564	The count of Application Live Sessions may be off after reducing the number of application match.	NA	8.2.0.0.0
30141581	Multiple config changes localized in rules and classes may result in rules not getting applied.	NA	8.2.0.0.0

## **Customer Build Notes**

The following table reflects bugs fixed through the latest release.

Table 4-1 Customer Build Notes for 8.2p1

Bug ID	Description
30715656	Refresh option in flow page was redirecting to home page.
3062867	On a D2000 or D6000 running release 8.2.0.0.0 and OS 7.0, setting the management IP from the ILOM management console can fail when the management port is connected to a live network. There is no reliable workaround, but updating the management port with the management port cable disconnected can get the IP address set on the management port, then when finished reconnect the management port cable.



Table 4-1 (Cont.) Customer Build Notes for 8.2p1

Bug ID	Description
30620337	If there are different VLAN¿s set on WAN and LAN ports under ¿Interface Groups¿ and the field ¿Access Interface Failover¿ is not checked under ¿Internet/Intranet¿ section, then the user is not shown any warning with appropriate message to alert him/her regarding VLAN mismatch and recommend the user to enable ¿Access Interface Failover¿ (Internet/Intranet service).
30620119	The instructions for filtering flows by DSCP tag on the Monitor > Flows page are incorrect.
30614673	If the route and service type for a flow changes, it may cause a service impacting memory dump.
30586032	When viewing Statistics > WAN > WAN Link Usage, the "Usage %" column sorts inconsistently.
30573737	Clicking on the ¿Refresh Page¿ icon while viewing the Event Management > Insert/View Events page will redirect the user to the appliance home page.
30696711	The option to ping from the Talari appliance (Troubleshoot > Ping) is incorrectly enabled on the standby appliance in an HA pair.
30554939	The Palo Alto Firewall XML file provided for Service Chaining has a static UUID field.
30546157	When a user filters for CONDUIT events under Event Management > Insert/View Events, CONDUIT_CLASS_POLICING_THRESHOLD events are shown instead.
30514819	If Microsoft Extensions are enabled for a VT800 in Azure, a large number of Microsoft log files are generated and cause disk usage alerts on the appliance.
30513588	Automatically generated firewall rules are removed without warning the user.
30495818	Turning on Netflow on a D6000 on 8.2 release may cause periodic jitter on data traffic.
30473467	When change config to remove/disable an application when the session is still running, it may cause service impact memory dump.
30457955	The ifconfig stats files in Diagnostic dumps contain empty files on SDWAN 8.2 software running on OS 7.0.
30438063	Periodic status reports preview page is displaying blank page and unable to send email notifications for the reports on scheduled time.
30431299	Enabling Dynamic Conduits may cause a service impacting memory dump.



Table 4-1 (Cont.) Customer Build Notes for 8.2p1

Bug ID	Description
30426767	Empty DNS AAAA Response packets are dropped by the APN when DNS snooping is enabled.
30421465	There may be a service impacting memory dump when the application statistics for the conduits are updated after a configuration update.
30418787	For E1000/D2000, there can be latency spike for some internet/intranet traffic.
3041877	For config update, it may cause service impacting memory dump.
30418064	In the Firefox browser, it is unable to create a client access interface with a DHCP client virtual interface.
30417955	Till now we don't have the cloud service/ cloud conduit option in Static NAT, Dynamic NAT and Firewall Policies sections. Now we have enabled the cloud services to them.
30401856	Using Easy Install [ZTP] to install a client site running 8.1 P1 or earlier when the secondary OS is OS 7.0 or newer may result in the ZTP process getting stuck while attempting to swap to the OS 7.0 partition. The workaround is to use Local Change Management on the client appliance to bring up the site.
30400984	There may be a service impacting memory dump when TCP termination is enabled.
30361515	When logging in via SSH an SDWAN-EDGE device running OS 7 and OS 8.2 using a RADIUS or TACACS+ username, the user will be improperly prompted for the 'talariuser' password when running commands in tcon or doing a sudo command from the shell. The workaround is to log in as a local user or use the Web console for SDWAN-EDGE administration.
30355117	When configuring WAN link usage for a conduit under Connections > [Site] > Conduits > [Conduit Name] > Remote Site > WAN Links for a site with one or more MPLS WAN links, it is possible to get into a state where ¿Use¿ is checked for an MPLS WAN Link but is not checked for its component queues. The MPLS paths are not created in this case.
3035509	Error messages in the Configuration Editor may disappear before users can see and act on them.



Table 4-1 (Cont.) Customer Build Notes for 8.2p1

Bug ID	Description
3035492	When enabling e-mail alerts either under Configure Alarms or Configure Alerts/Events, if a section that has a required field (such as a password) is enabled but not filled in, all pending changes will be cleared when the Apply button is clicked.
30354436	Service Chaining with Palo Alto does not work as expected.
30354453	If a Firewall Policy Template is applied under Global > APN Settings and the name of the applied Firewall Policy Template is changed under Global > Firewall > Firewall Policy Templates, the applied Firewall Policy Template will be changed to <none> and Configuration Editor will produce an audit error.</none>
30354274	Disk usage is calculated incorrectly on appliances running Service Chaining.
30353908	When WAN-to-WAN Forwarding is enabled and the NCN is acting as an intermediate site, a service impacting memory dump way occur while the NCN statistics are updating.
30353887	When using the Configuration Editor in Google Chrome, it takes multiple clicks to select an Ethernet Interface to add to an Interface Group after creating a Virtual Interface.
30353858	When disabling an application which is referenced by a rule, an audit error is displayed which cannot be cleared.
30353832	When configuring a WAN Link in the Basic View of the Configuration Editor, setting the Physical Rate does not also set the Permitted Rate.
30353516	The help text and tool tip text in the Configuration Editor for the Custom Silence Period incorrectly states the default as 150ms even though the default silence time threshold is based on 3 nags, which are a dynamic variable depending on the trending network conditions.
303533	If OSPF Route Learning is enabled and a route is withdrawn from OSPF, a service impacting memory dump may occur.
3035325	All the DNS request over TCP from the client get dropped in APN.
30352992	DHCP relay request gets dropped if there is already connection entry exists but in the invalid state. The proposed fix should avoid the delete the invalid connection entry as soon as possible.



Table 4-1 (Cont.) Customer Build Notes for 8.2p1

Description	
When APN sends out TCP SYN with timestamp option TSval having non zero value, but the server responds with Time stamp echo option Tsecr with 0 value, which leads wrong RTT calculation.	
When running OS 7 and R8_2_GA, a Management Interface Whitelist created on the Configuration -> Local Network Settings: Managmeent Interface Whitelist will not persist across a restart and will have to be manually re-applied either via the GUI or by running some commands at the shell prompt upon a reboot. This workaround is: If there's an existing ACL from when the appliance was running OS 5.x, then you can run the following command at the shell and it should set up the ACI under OS 7: /sbin/iptables-restore < / home/talariuser/bin/ t2_mgt_acl_iptables_up_rules This command will need to be manually run on every reboot. For adding new rules from CLI: t2_mgt_aclallow <network> (example: t2_mgt_acl allow 172.17.200.172/32) For removing rules:</network>	

