

Oracle® SD-WAN Edge

Release Notes



Release 8.2

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March 2020

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 8.2

F26389-01

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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.

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.
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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

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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

This section provides a revision history for this document.

Date	Description
September 2019	Initial release.
January 2020	<ul style="list-style-type: none">• Updates Known Issues to correspond with 8.2.0.1.0 release• Adds Customer Build Notes to correspond with 8.2.0.1.0 release
February 2020	<ul style="list-style-type: none">• Updated for the 8.2M1 release
March 2020	<ul style="list-style-type: none">• Updates OS Compatibility section to include new OS7.0.1 release

1

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.

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 8.2.0.0.0.

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 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.

2

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

3

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*.

4

Known Issues - SD-WAN Edge

This table lists the known issues in version 8.2.0.0.0

ID	Description	Severity	Found In
30792564	A service impacting memory dump may happen when dynamic conduit between two sites is enabled and a config change happens where auto-path group has different DSCP value than the previous config file.	2	8.2.1.0.0
30781290	A service impacting memory dump may happen on the D6000 platform during a reboot or disable/enable of services.	3	8.2.1.0.0
30654905	A service impacting memory dump may happen due to MySQL corruption during reboot.	2	8.2.1.0.0
30817956	When Dynamic conduit is enabled with HA enabled on client, and IPSec on the Conduit between client and NCN, dynamic conduit paths may disappear.	2	8.2.1.0.0
30835202	In the virtual environment, when Path MTU is updated in sites -> WANlinks for 1 site, it automatically gets applied for all the WANlinks for the whole network.	2	8.2.1.0.0
30850275	OS swap from OS_7.0.0.0.0_GA_1112 2019 to OS 5.1 may fail for Virtual appliance (KVM).	3	8.2.1.0.0

Resolved Issues

The following issues have been fixed in this release.

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	<p>Adding whitelisted management interfaces in with the Configure --> Local Network Settings --> Management Interface Whitelist option does not work.</p> <p>Workaround:</p> <p>Add whitelisted management interfaces with the CLI:</p> <ol style="list-style-type: none"> 1. Access your SD-WAN Edge device through command line. 2. Enter the following command "t2_mgt_acl --allow <network>" <pre data-bbox="755 884 948 989">#: t2_mgt_acl --allow 172.17.200.172/ 32</pre> 3. Verify by accessing the SD-WAN Edge GUI at Configure --> Local Network Settings --> "Management Interface Whitelist". Your ACL will be added successfully. 	SD-WAN OS7.0	8.2.0.1.0
30361515	<p>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.</p> <p>Workaround: Log in as a local user or use the web console for SD-WAN Edge administration.</p>	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 re-connect the management port cable.
30620337	If there are different VLANs set on WAN and LAN ports under <i>i</i> Interface Groups _{<i>i</i>} and the field <i>i</i> Access Interface Failover _{<i>i</i>} is not checked under <i>i</i> Internet/Intranet _{<i>i</i>} 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 <i>i</i> Access Interface Failover _{<i>i</i>} (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.

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

Bug ID	Description
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.
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.

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

Bug ID	Description
3035509	Error messages in the Configuration Editor may disappear before users can see and act on them.
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.
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 may 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.
3035333	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.
3035269	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.
30340596	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 ACL 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_acl --allow <network> (example: t2_mgt_acl --allow 172.17.200.172/32) For removing rules: t2_mgt_acl --clear