

Oracle® SD-WAN Edge 8.0

Release Notes



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About This Document

Talari APN release notes inform customers of added features, resolved issues, requirements for use, and known issues in the latest Talari APN releases.

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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:

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3. Select one of the following options:
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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.

References

The following documents are available:

- *Talari Glossary*
- *Talari Appliance Quick Start Guide*
- *Talari APN 8.0 GA New Features Guide*
- *Talari APN 8.0 GA Configuration File Reference*
- *Talari Aware 8.0 GA Release Notes*
- *Cloud Connect 1.0 Release Notes*



About This Product

Talari Appliances

APN 8.0 GA supports Talari Appliances functioning as Network Control Nodes (NCNs) or Client Nodes.

The following Talari Appliances are compatible with APN 8.0 GA:

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

Note: The E50 Appliance only functions as a Client Node.

Capacity by Appliance Model

The following table details the supported network scale for each Talari Appliance model when running APN 8.0 GA.

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
T860	32	16	216	216	64,000	8,000	8	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	1,000	1,000	256,000	16,000	8	32
T5000	256	32	1,152	1,152	512,000	16,000	8	32
T5200	550	32	5,500	5,500	512,000	16,000	8	32
VT800	32	16	216	216	64,000	8,000	8	32
VT800-128	128	32	576	576	256,000	16,000	8	32
CT800	16	8	120	120	64,000	5,000	8	32
CT800-128	128	32	576	576	256,000	16,000	8	32

Table 1: Network Scale by Talari Appliance Model

Supported Combinations

APN 8.0 GA is supported in combination with the following level(s) of Talari Aware:

- Aware 8.0 GA

To deploy this level of APN on your network, each Talari Appliance must be running a supported level of Talari OS. If an OS update is required, see the *Talari OS Partition Update Guide* for instructions.

The following versions of Talari OS support APN 8.0 GA:

Talari Appliance Model	Talari OS	
	OS 4.6	OS 5.1
E50	--	YES
T860	--	YES
E100	--	YES
E500	--	YES
T3010	--	YES
E1000	--	YES
T5000	--	YES
T5200	--	YES
VT800	--	YES
VT800-128	--	YES
CT800	--	YES
CT800-128	--	YES

Supported Web Browsers

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

- Microsoft IE9 – IE11
- Mozilla Firefox
- Google Chrome

Supported browsers must have cookies enabled.

Supported browsers must have JavaScript installed and enabled.

Enhancements/Features in APN 8.0 GA

The following issues have been enhanced or added since APN 7.3 GA P7:

ID	Issue Description
16569	Old log files are now compressed to permit longer retention.
16551	APN 8.0 GA introduces Cloud Connect, which allows customers to connect to participating Cloud Connect providers from the enterprise APNs via Cloud Conduits.

Resolved Issues in APN 8.0 GA

The following issues have been fixed since APN 7.3 GA P7:

ID	Issue Description
18668	A major configuration update on large network may cause a service impacting memory dump.
18614	If an intranet IPsec tunnel uses a Talari appliance's LAN facing virtual IP as the source endpoint, it may cause service impacting memory dump.
18506	Reverting an appliance to factory defaults may not clear the Service Chaining VM and configurations associated with Service Chaining.
18166	When logged in as a RADIUS or TACACS+ administrative user, the user is required to enter the current password when trying to change the password for a local user on the Manage Appliance > Users/Authentication screen. By convention, an administrative user shouldn't be prompted for the user's current password unless they are changing their own password.
18009	When the probing interval time for an application is 60 seconds, the probing loss may show up as 100% if the probe starts at the same time as statistics are written to the database.
16802	Restarting the Talari service may cause a non-service impacting memory dump.
16567	The Configuration Editor will accept a network address for an Access Interface IP, rather than a host address.

Known Issues in APN 8.0 GA

The following issues are known to exist in APN 8.0 GA:

ID	Issue Description	Workaround	Targeted Fix
18810	On appliances connected to large, busy networks, snmpwalk may cause a service impacting memory dump.	None	Future
18618	Ports configured to fail to wire may stay in the hardware bypass state when the Talari service is enabled, resulting in traffic being forwarded through the appliance without being processed by the Talari service. Stopping and restarting the Talari service will clear this condition.	See Issue Description	TBD
18502	Service Chaining with Palo Alto does not work as expected. Contact support@talari.com for a workaround.	See Issue Description	TBD
18406	On a T5200 appliance, the APN_misc.log may show messages about orphaned WAN Ingress buffers for a specific conduit. These messages could show for up to 30 minutes but should then clear up.	None	TBD
18329	In certain rare circumstances, an E100 may become unresponsive and require a reboot before resuming normal function.	None	TBD
18256	If the OS partition goes over 63% during an OS upgrade, it will trigger a warning. After the upgrade completes, the the old OS file will be removed. This may trigger a Hard Disk Usage Error which is then resolved without requiring any action from the user.	None	TBD
18253	Occasionally, the Munin graphs do not show as much data as expected.	None	TBD
18124	SNMPv3 may restart continually on Talari appliances running OS 5.0 or earlier.	None	TBD
18122	On a dynamic conduit, if a rule puts large data backups into class 1, users may observe queueing of 50+ seconds and a significant number of bytes pending for that class.	None	TBD

ID	Issue Description	Workaround	Targeted Fix
18109	<p>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.</p> <p>To correct this state:</p> <ol style="list-style-type: none"> 1. Deselect the MPLS WAN Link 'Use' checkbox. 2. Click Apply. 3. Select the MPLS WAN Link 'Use' checkbox. 4. Click Apply. They should now be in sync. 	See Issue Description	TBD
17921	In rare circumstances, the E100 appliance may lock up due to a Linux kernel issue.	None	TBD
17852	When an HA pair are directly connected using a fiber port and Primary Reclaim is not enabled, if the Primary goes down and then comes back up it may automatically become active without any prompting, even though the Secondary has taken over as the active appliance. It can take a few seconds for the fiber port to initialize and this is why the primary takes control. Once the port is up, the standby will return back to its standby state.	None	TBD
17825	On the E1000 with 10G Fiber Expansion Card, the UI allows the user to turn autonegotiation on or off for the fiber links (ports 9 and 10) under Configuration > Local Network Settings . This setting is ignored because the user cannot enable autonegotiation for the fiber links and set the speed.	None	TBD
17201	During the Change Management process there is a small chance that, after the new configuration finishes staging and the users clicks "OK" to move to the Activation screen, the application will immediate start the activation process without waiting for the user to click "OK" or Cancel.	None	TBD
17191	<p>When making major configuration changes to Firewall and QoS Rules simultaneously, there is a small possibility of causing a service impacting memory dump on a client device.</p> <p>The workaround is to restart the Talari service.</p>	See Issue Description	TBD

ID	Issue Description	Workaround	Targeted Fix
16555	In very rare cases the database files on the appliance may become corrupted, preventing MySQL from starting. As a result, most functionality on the appliance will not work.	None	TBD
16173	When enabling or disabling a path or conduit, an invalid path or conduit may sometimes be shown in the list.	None	TBD
15794	When performing an OS Update (upload of OS package or installation of the uploaded OS), if the Web Console times out or the user navigates away from the page, the resulting underlying system state causes the OS Version for the Backup partition to be reported as “-1”. The workaround is to reboot the appliance and try the OS upload or install operation again.	See Issue Description	TBD

3rd Party Issues Affecting APN 8.0 GA

The following 3rd party issues are known to affect 8.0 GA:

ID	Issue Description	Workaround	Targeted Fix
14734	Opening configuration files containing a very large number of sites into the APN Configuration Editor using Internet Explorer (IE) may take anywhere from 10-30 seconds to load. As a workaround, use Chrome or Firefox.	See Issue Description	None
12610	When using Chrome, the Regenerate HTTPS Certificates page is displayed a second time after the initial count down completes. The workaround is to use another browser.	See Issue Description	None

ID	Issue Description	Workaround	Targeted Fix
11268	In certain conditions where an SNMP-polled Cisco device learns multiple EIGRP routes with the same network ID but different lengths (e.g., 10.26.16.0/20 and 10.26.16.0/24), the router will only insert the first route from its routing table into the SNMP table. Cisco IOS devices list the longest match first (/24), whereas Cisco Nexus devices list the shortest match first (/20). As a result, a Talari Appliance polling for routes will only receive one of the routes and which one it receives depends on the device being polled. This could cause connectivity issues.	None	None
8664	On T3010 and T5000 appliances, holding the red "X" button on the front of the unit for less than 10 seconds will not power down the unit. Holding the button for more than 4 seconds but less than 10 will cause a "Power Off" message to be displayed but the unit will not shut down. In order to clear the "Power Off" message and re-display the management IP address, re-apply the existing management interface settings under Manage Appliance -> Ethernet Interface Settings -> Management Interface . Also note that shutting the unit down using the power button does not perform a graceful shutdown.	See Issue Description	None
8127	When using Chrome, under Manage Appliance -> Users / Authentication , certain fields in the RADIUS section (if RADIUS is enabled) or the TACACS+ section (if TACACS+ is enabled) may be incorrectly filled with login credentials saved by Chrome for the Site. This is an auto-fill issue in Chrome. Workaround is to use another browser or to replace incorrect auto-fill information with correct information before attempting to apply changes to the RADIUS or TACACS+ settings.	See Issue Description	None
7179	When console cable is plugged in to a Talari Appliance and attached out to some external device (e.g. a terminal server), noise on the console cable may interrupt appliance boot sequence. Workaround is to unplug console cable from appliance, to unplug console cable from external device, or to connect to appliance locally and restart interrupted boot sequence from command line. Issue is tied to Linux boot loader and is not within the APN Software product itself. Issue is being documented here for customer awareness.	See Issue Description	None

Enhancements/Features in Previous Releases

Enhancements/Features in APN 7.3 GA P7

The following issues have been enhanced or added since APN 7.3 GA P6:

ID	Issue Description
18505	An audit warning will be displayed in the Configuration Editor for any conduit which has “Unlink Classes from Default Set” checked under Connections > [Site] > Conduits > [Conduit] > Local Site > Basic Settings .

Resolved Issues in Previous Releases

Resolved Issues in APN 7.3 GA P7

The following issues have been fixed since APN 7.3 GA P6:

ID	Issue Description
18597	On the T5200 and T5000v2, some flows may see extra delay between packets. If a real-time flow such as a voice call is impacted by this issue, call quality will be degraded.
18594	When upgrading from APN 7.3 GA P6 to a later release, certain appliance models may reboot. The software update still succeeds and the service comes back up, but the operation takes longer than without the reboot.
18525	After doing a major configuration update (such as adding or removing a service or WAN link), if a site has dynamic routing enabled and the imported routes have path eligibility enabled, a path state change may cause a service impacting memory dump.
18509	The “Interfaces” dropdown menu on the Troubleshoot > Packet Capture screen may not be populated.
18490	When there are more than 4000 route hits on an appliance, it may cause memory leak. This may cause the appliance to reboot unexpectedly.
18450	Some platforms could experience frequent reboots due to the Linux kernel falsely detecting a fault and triggering a reboot.
18423	On the Statistics > WAN > Routes screen, the Hit Count column does not sort in correct numerical order.
18382	When installing software on an appliance with RADIUS or TACACS+ enabled, an attempted login by the user 'jigar' may be visible in the logs and on the server.

ID	Issue Description
17619	Several columns on the Statistics > Appliance Interfaces > ARP screen do not sort as expected when clicking on the column header.