RELEASE NOTES

NetVanta Internetworking Products
AOS version 18.03.01
January 6, 2012

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Introduction

AOS version 18.03.01 is a major system release that adds new features and addresses customer issues that were uncovered in previous code releases.

This release is generally available code. Results obtained during internal testing have been evaluated and the code has been determined to be ready for general availability. Caveats discovered during testing but not addressed in this build are listed in *Errata on page 6*.

A list of new or updated documents for this release appears in *Documentation Updates on page 9*.

Configuration guides, white papers, data sheets, and other documentation can be found on ADTRAN's Knowledge Base, http://kb.adtran.com. The contents of these release notes will focus on the platforms listed below.

Supported Platforms

The following platforms are supported in AOS version 18.03.01. To confirm the Boot ROM version of the ADTRAN unit, telnet or console to the unit and issue the **show version** command. In the command output, the Boot ROM version will be listed as **Boot ROM version XX.XX.XX**. If you require a Boot ROM upgrade, please contact ADTRAN Technical Support (support@adtran.com or 888-423-8726) for assistance.

Platform	Standard Feature Pack	Enhanced Feature Pack	Minimum Boot ROM
NetVanta 1534	√		17.06.03.00
NetVanta 1534 (2nd Gen.)	√		17.08.01.00
NetVanta 1534P (2nd Gen.)	√		17.09.01.00
NetVanta 1544/1544F	√		17.06.03.00
NetVanta 1544 (2nd Gen.)	√		17.08.01.00
NetVanta 1544P (2nd Gen.)	√		17.09.01.00
NetVanta 1638	√		18.02.01.SC
NetVanta 1638P	√		18.02.01.SC
NetVanta 1335		√	15.01.00
NetVanta 3120		√	14.04.00
NetVanta 3130		√	14.04.00
NetVanta 3200/3205 (3rd Gen. only)	√	√	17.02.01.00
NetVanta 3305 (2nd Gen. only)	√	√	04.02.00
NetVanta 3430	√	√	13.03.SB
NetVanta 3430 (2nd Gen.)	√	√	17.05.01.00
NetVanta 3448	√	√	13.03.SB
NetVanta 3450	√	√	17.06.01.00
NetVanta 3458	√	√	17.06.01.00
NetVanta 4305 (2nd Gen. only)	√	√	08.01.00
NetVanta 4430	√	√	17.04.01.00
NetVanta 5305	√	√	11.03.00

System Notes

Beginning with AOS version 17.09.01, the syntax of certain commands was modified from previous AOS versions by either removing or adding the IP keyword. In general, when the **ip** keyword appears in a command, it signifies that the command is only applicable to IPv4 functionality. As more features introduce IPv6 support, the **ipv6** keyword is added to signify the command is only applicable to IPv6 functionality. The **ip** keyword has been removed from several commands to signify that the command has both IPv4 and IPv6 functionality.

Due to this syntax change, downgrading a unit configured in AOS version 18.03.01 to a previous AOS version, could cause service disruption because the new syntax might not be recognized by the previous version. Upgrading a unit from an older AOS version to AOS version 18.03.01 will cause no service disruption because both the old and the new syntaxes are accepted. For more information on specific commands, refer to the *AOS Command Reference Guide* (ADTRAN's Knowledge Base article 2219) available at http://kb.adtran.com.

Features and Enhancements

This section highlights the major features, commands, and behavioral changes for AOS version 18.03.

- Added support for IPv6 stateless DHCP server.
- Added support for IPv6 DNS client.
- Added support for IPv6 DNS proxy.
- Added support for IPv6 HTTP agent.
- Added support for IPv6 IP MIBs.
- Added support for IPv6 management of NetVanta switch products.
- Added support for BGP in multiple VRF instances.

Fixes

This section highlights major bug fixes in AOS version 18.03.01.

- In certain cases, IPv6 neighbor discovery router advertisement suppression would not properly set the lifetime value in advertisements.
- In some cases, accessing the GUI of an AOS device with an IPv6 address caused the AOS device to reboot.
- If a TACACS+ request was sent from an AOS device and a TCP session was established between that device and the TACACS+ server, but the server ignored responses to TACACS+ authorization or accounting requests, the AOS device would become unresponsive until rebooted.
- If an NTP server sent out a bad UNIX time-stamp indicating time far into the future or the past, the router would reboot.
- The interface speed for a T1 interface displayed **0** in Getif when monitoring a NetVanta 3430.
- Issuing the **copy http** command using a host name that was not recognized by the DNS server caused the unit to reboot.

- The nondefault T1 coding setting (**ami**) would not persist in the NetVanta 3430's startup configuration after a reboot.
- DNS host table entries on the NetVanta 3448 did not show up in the GUI.
- Applying PPPoE configuration changes to an AOS router via the GUI caused an HTTP 503 Service Unavailable error.
- If an OSPF hello timer on an interface was modified from the default value, the new timer would not be used until the interface was disabled and re-enabled.
- If the command **no switchport port-security mac-address sticky** was issued on an interface, the interface would no longer allow communication until the command **no port-security** was issued on that interface.
- Clearing a sticky MAC address from an interface with the **no switchport port-security mac-address sticky** command erased sticky MAC addresses from all interfaces.
- The LLDP interface setup table on the NetVanta 3448 displayed an erroneous interface called DataCall in both the CLI and GUI.
- The NetVanta 3430 (second generation) would drop a small number of prioritized packets over long periods of time.
- In rare cases, the HTTP interface would become unresponsive. A reboot would resolve the issue.
- GRE tunnel interface statistics would not display properly in the GUI's GRE tunnel configuration menu.
- The ADSL NIM would not train properly when using Annex M.

Errata

The following is a list of errata that still exist in AOS version 18.03.01.

- Sprint 3G NIMs can show matching MSID and MDN values even when the values should be different.
- CLI access can become unresponsive on NetVanta 1638s after seven weeks of uptime.
- The **traceroute ethernet** command, used by Ethernet CFM, is missing from the CLI.
- Changing PoE settings in the GUI can cause a 503 Service Unavailable response.
- A NetVanta 1544 could reboot when manually generating an exception report.
- In rare cases, when an IP PBX and IP phones are both passing through a NAT and the SIP proxy on a NetVanta router, some call flows can enter a one-way-audio state. Enabling the command **ip rtp firewall-traversal enforce-symmetric-ip** from the Global Configuration mode works around the issue.
- LLDP speed/duplex mismatch messages can be generated by the second generation NetVanta 1534P switch when Aastra 6737i or 6735i phones are attached.
- A large enough drift in the system clock can cause an error when the NTP server attempts to synchronize.
- QoS maps with names longer than eight characters might not display properly in the GUI.
- The SIP proxy could fail to use the Request-URI from the initial request Contact header for in-dialog requests.
- Attempting to ping across a locally generated VPN tunnel using the GUI can timeout even with valid connectivity.

- In rare circumstances, BGP can enter a state where routes are being learned but are not inserted properly into the route table. A reboot clears the issue.
- Issuing the **speed 100** command on a Gigabit Ethernet port on the back of the NetVanta 1544 (second generation) shuts down the interface.
- If a configured local gateway does not respond in survivability with the SIP proxy, no error is sent to the proxied device.
- A NetVanta 1638P could intermittently stop passing traffic on some interfaces. A reboot would resolve the issue.
- A NetVanta 3430 (second generation) might not transmit the first packet routed to an IP address after the IP address is removed from the ARP table.
- Using SCEP, NetVanta routers could fail to enroll certificates to a Red Hat Certificate Authority.
- On a NetVanta 1534, if an interface is configured as a port mirror destination (**monitor session 1 destination int gig ***), then port authentication will no longer be configurable on that port, even after removal of the port mirror command from the configuration.
- A VLAN interface for a VLAN that is not accessed by other switchports will not be advertised by GVRP.
- DoS protection against ICMPv6 ping packets with a payload greater than a specified value (DoS ID: 42) will also drop ICMPv4 packets.
- The NetVanta 1638 fails to count output discards when throttling down the transmission of traffic (as a result of receiving pause frames).
- The input/output rate counters for a T1 interface are exaggerated for approximately 15 seconds after clearing them.
- The GUI statistics page for the SHDSL interface does not refresh when in 4-wire mode.
- The CLI does not allow the user to set the DS0 speed to 56K for an E1 NIM.
- The GUI shows invalid line rate options for a SHDSL interface in 2-wire mode.
- The GUI line rate options for a SHDSL interface do not match those of the CLI.
- Adding an IPv6-enabled PPP interface to a bridge group does not require the user to first remove the IPv6 address from the PPP interface.
- Sending a configuration job from n-Command MSP with only a single 200+ character string and no carriage returns can cause the receiving device to reboot.
- Test patterns cannot be generated consistently on E1 NIM cards.
- AWCP is displayed as a configurable option under switchports which is incorrect and will not function.
- The SIP debug filter configuration menu in the GUI allows invalid, nonfunctional debug filters to be configured.
- Configuring over 1200 VNS entries on the NetVanta 3448 causes a SIP Pre-Parse error.
- The VNS verification process does not remove inconsistent A-type records from the host table after the configured number of attempts.
- A-type host table entries (associated to a manually configured VoIP Name Service Host) are classified as sticky when an AOS router first boots up with VNS verification enabled.
- Configuring a port channel on a NetVanta 3448 can cause the STP topology to become unstable.
- The output of the show host command does not display the entire FQDN.

- Issuing the clear host * command can remove permanent SRV-type DNS entries from the host table.
- IPv6 traffic destined to 0:: is forwarded to the default gateway instead of being dropped.
- Switch platforms count input discards on the ingress interface when receiving 802.3X pause frames.
- The NetVanta 3458 and NetVanta 3448 only support 2956 MAC address table entries.
- Sierra Wireless USB305 3G modems are sometimes not recognized by the USB WWAN NIM.
- Changing the route metric value using **ipv6 address autoconfig default metric *** command does not change the administrative distance of the default route.
- QoS cannot be invoked on a demand interface.
- The NetVanta 5305 can drop some traffic prioritized by class-based weighted fair queuing (CBWFQ) on a MLPPP interface when a stand-alone QoS map is applied.
- The DNS server can take action on received DNS responses that are not associated with an open request, posing a DoS attack vulnerability.
- The QoS menu of the GUI displays available bandwidth for a PPP interface that is in a Link Down state.
- A NetVanta 5305 can stop passing traffic for brief intervals when negotiating frequent VPN tunnels using Diffie Hellman Group 5.
- The output queue statistics on an Ethernet interface can fail to display output queue drops when FIFO is enabled.
- The AOS CLI could remove existing child QoS maps from a parent QoS map's configuration when attempting to remove an alternate, nonexistent child QoS map from the parent QoS map prompt.
- Prioritized traffic can be dropped at a significant rate on PPP interfaces when using a parent QoS map (that references a child map with priority allocation) if the shaped rate is configured for more than 75 percent of the line rate.
- The CLI does not display the correct value for Required Bandwidth in the event message generated by applying a QoS map.
- The output from **show qos map int ppp 1** displays incorrect values for the number of packets sent.
- The **max-reserved-bandwidth** command is removed from an Ethernet interface when changing the encapsulation to 802.1Q.
- The NetVanta 5305 can fail to generate an event message to confirm that a QoS map has been applied.
- EAP Identity Responses from a wireless client that do not contain an Identity field can result in a malformed RADIUS packet created by the NetVanta 150.
- HDLC keepalives cannot be disabled from the CLI.
- NetVanta 150 might not properly handle immediate Access-Accept responses to Access-Request messages.
- The IPv6CP protocol state can occur even when IPv6 is disabled on a PPP interface.
- In some instances, an SFP port on a NetVanta 1544 will not function with RAD MiRiCi-E3T3 SFPs.
- Frames can be dropped for a brief period while an ARP entry is updated.
- 3G connections using a NetVanta USB WWAN NIM and a Sierra Lightning modem can fail.
- The cellular interface can trigger a core dump on a NetVanta 3448 when changing states.

- Selecting the link for a Gigabit Ethernet switchport on the second generation NetVanta 1500 Series, while on the Flow Control menu of the GUI, causes the user to be redirected to the VLAN application tab.
- Port mirroring on a NetVanta 1544 switch might not mirror traffic in both directions.
- A Gigabit Ethernet switchport can become suspended from port channel after sustained runtime.
- Proxy user templates cannot modify SDP IP addresses correctly in some applications.
- Browsing to the Switchports menu from the Port Security menu on the NetVanta 1335 WiFi GUI results in a 503 Service Unavailable error.
- Connecting a Novatel U547 USB modem to the NetVanta USB WWAN NIM can cause the router to reboot.
- Port T1 3/3 on a NetVanta 4305 can fail intermittently when attached to an MLPPP bundle. Rebooting the device will restore the interface.
- A startup configuration with greater than 2743 IPv6 prefixes on a VLAN interface causes the NetVanta 3448 to reboot.
- In some cases, the T1 interface statistics will log Degraded Minutes although there are no other physical errors logged for that T1.
- A Spanning Tree L2 broadcast storm lasting several hours can cause the NetVanta 1335 to reboot.
- The L3 Switch Header Error and Discard counters on the NetVanta 1544P (second generation) do not increment.
- The pass phrase for the Wireless Wizard does not persist across reboots.
- Rapidly removing and adding cross-connects using the CONSOLE port and SSH at the same time can result in a reboot.

Upgrade Instructions

Upgrading ADTRAN products to the latest version of AOS firmware is explained in detail in the configuration guide *Upgrading Firmware in AOS* (ADTRAN's Knowledge Base article 1630), available at http://kb.adtran.com.

Documentation Updates

The following documents were updated or newly released for AOS version 18.03 or later specifically for the NetVanta Internetworking products. These documents can be found on ADTRAN's Knowledge Base available at http://kb.adtran.com. Search either by title or article number (shown in parenthesis following the document title).

- AOS Command Reference Guide (60000CRG0-35D, article 2219)
- QSG NV 5305 SYS CONTROL ROHS61200831G1-13B1695
- NetVanta 5305 AC Power Supply Quick Start Guide (61200840G1-13B, article 1688)
- NetVanta 5305 DC Power Supply Quick Start Guide (61200841G1-13B, article 3006)
- MGCP in AOS (61210916L1-29.7F, article 2347)
- NetVanta 120 Watt AC Power Supply Quick Start Guide (61700460F1-13B, article 3438)
- NetVanta Dual SFP+ XIM Quick Start Guide (61700471F1-13A, article 3445)

- T.38 Protocol in AOS (61950851L1-29.1D, article 2186)
- Configuring EFM NIM2s and the MEF Ethernet Interface in AOS (6AOSCG0012-29B, article 3501)
- Configuring Border Gateway Protocol Version 4 in AOS (61200860L1-29.4D, article 1618)
- Configuring IPv4 Multi-VRF in AOS (61202880L1-29.4H, article 2156)
- Mutli-VRF BGP in AOS (6AOSCG0024-29A, article 3524)
- Using IPv6 in AOS (6AOSCG0016-29C, article 3505)
- NetVanta 1110 RPS Quick Start Guide (61700531G1-13A, article 3453)
- NetVanta 1230 Series Quick Start Guide (61700594G1-13B, article 2518)

