



AOS 17.04.01.00 Release Notes

Release Notes

Release Date: December 10, 2008

Notes Revision: 12/10/2008

Introduction

NetVanta Series products support application image updates via the ADTRAN OS Web GUI, TFTP, X-Modem, and FTP. A detailed firmware upgrade guide with step-by-step instructions is available at:

<http://kb.adtran.com/article.asp?article=1630&p=2>.

Prior to upgrading firmware, please ensure that your unit meets the minimum Boot ROM requirements, listed under "Supported Platforms."

Supported Platforms

	<u>Standard Feature Pack</u>	<u>Enhanced Feature Pack</u>	<u>Minimum Boot ROM****</u>
NetVanta 1234	9700594-2A170401.biz	N/A	17.03.01
NetVanta 1238	9700594-2A170401.biz	N/A	17.03.01
NetVanta 1534	9700590-2A170401.biz	N/A	17.03.01
NetVanta 1335	N/A	9950515-2A170401.biz	
NetVanta 3120	N/A	9700600-2A170401.biz	14.04.00
NetVanta 3130	N/A	9700610-2A170401.biz	14.04.00
NetVanta 3200/3205 (3 rd Gen.)*	9200860-2A170401.biz	9950860-2A170401.biz	17.02.01.00
NetVanta 3305**	9200880-2A170401.biz	9950880-2A170401.biz	04.02.00
NetVanta 3430	9200820-2A170401.biz	9950820-2A170401.biz	
NetVanta 3448	9200821-2A170401.biz	9950821-2A170401.biz	
NetVanta 4305***	9200890-2A170401.biz	9950890-2A170401.biz	08.01.00
NetVanta 4430	9700630-2A170401.biz	9950630-2A170401.biz	17.04.01
NetVanta 5305*****	9200990-1A170401.biz	9950990-1A170401.biz	11.03.00

*1st generation NetVanta 3200/3205 routers (part numbers beginning '1200') and 2nd generation NetVanta 3200/3205 routers (part numbers beginning '1202') cannot run this version of AOS.

**1st generation NetVanta 3305 (Part number 1200880L1) cannot run this version of AOS.

***1st generation NetVanta 4305 (Part number 1200890L1) cannot run this version of AOS.

****To confirm the version of Boot ROM, telnet or console to the unit and issue the **show version** command. 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.

*****This version of firmware is supported on the NetVanta 5305, but was not initially released.

New Features

Overview

Static 1:1 NAT Pools

This feature is used for firewall and ALG applications where a private IP address range always needs to be mapped to specific public IP. NAT Pools enhance flexibility without a lengthy configuration.

Supported Platforms NetVanta 1335, NetVanta 3100 Series, NetVanta 3200/3205 (3rd Gen), NetVanta 3305, NetVanta 3400 Series, NetVanta

	4000 Series, and NetVanta 5305
Ethernet OAM CFM	<p>Ethernet Operations, Administration, and Maintenance (OAM) Connectivity Fault Management (CFM) in ADTRAN networking products is used in conjunction with Carrier Ethernet offerings for detecting, verifying, and isolating connectivity failures.</p> <p><i>Supported Platforms</i> NetVanta 3400 Series and NetVanta 4430</p>
AOS Debug Save/Restore	<p>This feature gives the ability to preserve debugging commands upon reloading the AOS device.</p> <p><i>Supported Platforms</i> Available for platforms supporting CLI TCL interpretation</p>
Interface Load Interval Statistics	<p>This adds the ability to calculate and display statistics from 30-600 second intervals, instead of only five minutes.</p> <p><i>Supported Platforms</i> NetVanta 1335, NetVanta 3100 Series, NetVanta 3200, NetVanta 3305, NetVanta 3400 Series, NetVanta 4000 Series, and NetVanta 5305</p>

Enhancements	Overview
Enhanced Ethernet QoS for PPP	<p>Class-Based Traffic Shaping is supported on Ethernet interfaces and an enhancement has been added to incorporate PPP. Some of the benefits of enhanced QoS are that a class can be an interface, VLAN, or any case that can be matched in a QoS map. The addition of child maps allows for subdividing a shaped class into multiple subclasses and applying QoS actions such as class-based queuing and low latency queuing to each subclass.</p> <p>There are several matching options as well. Matching up to eight DSCP values with one statement, matching outgoing VLAN, or matching any are all available options. When multiple match statements are configured in a QoS map class, the default behavior is matching any of the statements results in applying the configured action. The match-all option can be used when it is desirable to require a packet to match all configured match statements in order to be considered part of the QoS map class.</p> <p><i>Supported Platforms</i> NetVanta 1335, NetVanta 3200/3205, NetVanta 3305, NetVanta 3400 Series, NetVanta 4000 Series, and NetVanta 5305</p>
Interface Alias	<p>The ability to store 255 characters for the interface alias.</p> <p><i>Supported Platforms</i> NetVanta 1335, NetVanta 3100 Series, NetVanta 3200, NetVanta 3305, NetVanta 3400 Series, NetVanta 4000 Series, and NetVanta 5305</p>
QoS MIB	<p>This QoS MIB will support all of the features today that can be viewed via "show" commands in the CLI.</p> <p><i>Supported Platforms</i> NetVanta 1335, NetVanta 3100 Series, NetVanta 3200, NetVanta 3305, NetVanta 3400 Series, NetVanta 4000 Series, and NetVanta 5305</p>

Port Security	This existing AOS feature was added to these supported platforms. <i>Supported Platforms</i> NetVanta 1230 Series and NetVanta 1534
Protected Ports	This existing AOS feature was added to these supported platforms. <i>Supported Platforms</i> NetVanta 1230 Series and NetVanta 1534
GVRP	This existing AOS feature was added to these supported platforms. <i>Supported Platforms</i> NetVanta 1230 Series and NetVanta 1534
Clustering/Stacking	This existing AOS feature was added to these supported platforms. <i>Supported Platforms</i> NetVanta 1230 Series and NetVanta 1534

Errata

These are issues that were discovered during internal testing, but were unresolved at the time of release.

- Google Chrome does not allow login after session expires.
 - Workaround – Close the browser and log back in.
- After two calls exist in the call history, a TCL script is ran, then 20-25 minutes later the unit may reboot.
 - Workaround – No known workaround.
- Private SNMP community strings can be viewed with Public (read-only) access.
 - Workaround – No known workaround.
- The QoS Map web GUI page does not show all of the rate limiting and conversation statistics that can be seen in the CLI.
 - Workaround – View statistics in the CLI.
- Rate Stats always display as 0 on Ethernet sub-interfaces.
 - Workaround – No known work around.
- When using Ethernet OAM CFM, the NetVanta router may show remote MEP error status, which could trigger a false RDI/SNMP-trap on the other side if the Error Reporting is set to ErrorRDI.
 - Workaround - Set the error reporting higher.
- When using Ethernet OAM CFM, the NetVanta router may see its MAC address appear in the NextHop field for the output of "traceroute ethernet," if another vendor sent out a malformed LTM packet and did not ask for that information.
 - Workaround – No known workaround.

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.03.03)

Services and Viewers

- A TACACS+ session is maintained when console session is logged out.
- VRRP and interface addresses can be polled via SNMP when the requests come over the WAN interface or local Ethernet subnet, but not when the response must be routed out the Ethernet interface to another subnet. This problem only applies when polling the VRRP address when the polled interface is not the interface's primary address.
- When 'tacacs-server host' entries are configured, they get arbitrarily reordered. They are not added to the configuration in the order entered, which can cause the ability to load balance between servers to not function properly.
- The VPN LED on the NetVanta 3100 series does not activate regardless of the state of the tunnel, and the DBU LED does not turn off regardless of the state of the modem interface.
- The 'copy http' command only works with a FQDN when the FQDN is not currently in the host table.
- There is a memory leak that can lead to reboots when TACACS+ is invoked.
- In the Web GUI, the Burst Committed and Burst Excessive fields display incorrect information.
- In IP Flow, when the source interface is specified, the UDP source port is 0.
- Performing a SNMP Walk on the DS1 performance intervals may error out, or skip the first few OIDs.
- The Adtran unit fails to TFTP a configuration from the server upon bootup when using Auto-Config, because the DHCP client does not request options 66 and 67; this only occurs when the DHCP server is configured to only reply with parameters requested from the client.
- TACACS+ accounting reporting back to the server contains a minor memory leak, which can cause the unit to reboot after an extended period of time.
- After an 'ip forward-protocol udp x' command is issued and fails, the port appears in the UDP info table bound to the ANY vrf.
- Setting a Port Description from the GUI causes the Speed/Duplex setting to change on the NetVanta 1534.
- Web GUI and help text in CLI give the impression that any interface can have the QoS 'match-all' clause, when in reality only EEQoS interfaces support this clause at this time.
- When using a fiber connection to a gigabit-ethernet port on the NV4430, the link will not come up when the speed is forced to 1000 Mbps.
- NetVanta 3400 series routers, with SNMP Traps enabled, will provide a Cold Start Trap after reboot, regardless of whether reload was a cold or warm start.
- If the unit acquires an IP address via DHCP, it is not possible to manually assign the acquired IP address to the interface. The unit will take the command, but it is not reflected in the running configuration and the DHCP client is still in operation.
- If a Probe is configured with a space in the name, it can not be saved to the startup-configuration, although the command is accepted and functions properly until reboot.
- When using the web GUI wizard to configure Network Monitoring, the wizard does not configure a route-map for the probe.
- The CLI allows you to overlap network or broadcast addresses on VLAN and Ethernet interfaces.
- The command 'clear qos map' does not clear all statistics.
- 'AAA authentication username-prompt' and 'AAA authentication password-prompt' commands do not understand use of quotes () in username/password prompt after reboot, causing errors upon start up.
- Sections of web pages that have auto refresh do not display when using Firefox 3.
- Only in the web GUI, when the Clear CPU Max Load button is clicked on the System Summary page to clear the maximum, it immediately jumps to 100%.
- The 'no mtu' command is rejected on PPP interface.
- Auto-Link allows 'reload' cli command from nCommandMSP.
- Interfaces without a physical address have an address of 00:00:00:00:00:00 instead of being empty.
- Only the first LLDP neighbor is displayed in the web GUI.

- An access-class can not be removed from the configuration for SSH or Telnet lines.
- The media-gateway setting is missing from the HDLC web GUI page.
- System booted time counts backwards in CLI on the NetVatna 1534.

Routing, Switching and Bridging

- Receiving 5,000+ routes from two or more eBGP neighbors can unveil a slow memory leak that can cause the unit to reboot.

Network Interfaces and Quality of Service

- ADSL daughtercard reboots after receiving OAM packets that are corrupted.
- Entering the 'no shutdown' command on an enabled PPP interface causes it to bounce.
- If the priority for a QoS map is set to unlimited, matches are omitted from the output displayed from the 'show qos map' and 'show qos map interface x' commands.
- When a TCP packet is missing from a TCP stream, the MLPPP stack will wait 500ms for the missing packet to arrive before continuing to process the TCP stream, which is normal behavior for MLPPP, but may cause poor throughput because the Adtran will buffer the following packets for 500ms.
- Changing from priority percent to priority <kbps> within the same QoS map does not work.
- DDS may randomly go into loopback and TFTP transfers may run slowly and fail after 3Meg.

Firewall and VPN

- A 202 Accepted response to a SUBSCRIBE, is treated as an unknown response by the SIP ALG.
- The NetVanta 5305 only supports up to 1022 total allow/deny entries across all policy classes.
- When a VPN client tears down its VPN tunnel to the router, the inbound IPSEC SA may not be removed.



AOS 17.04.02.00 Release Notes

Release Notes

Release Date: January 28, 2009

Notes Revision: Jan. 30, 2009

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.04.01.00)

Using VQM and the SIP ALG simultaneously can cause a reboot when specific SIP communication patterns are processed by the router.

Slow fan speeds, when unit is idle in a below average temperature environment, can cause the NetVanta 1534 to display a false 'Chassis fan has failed' message.

IGMP Snooping can consume extensive CPU resources, and may cause the unit to reboot after an extended period of time.

Attempting to delete a tcl script from flash memory after the script has been executed with the 'run-tcl' command, can cause unit to lockup.

When redistributing routing protocols bidirectionally, such as BGP into OSPF and OSPF into BGP, the routing table may lock up, until the unit is rebooted.



AOS 17.04.03.00 Release Notes

Release Notes

Release Date: March 16, 2009

Notes Revision: March 16, 2009

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.04.02.00)

Source ports other than 5060 are not passed through the SIP ALG properly when destination NAT is configured.

In the Web GUI, if Ethernet sub-interfaces are configured, clicking on “System Summary” can cause a 503 Server Error.

Deleting and adding VLAN interfaces can cause the device to incorrectly report those VLAN interfaces through SNMP.

URL redirection will fail if the N-command MSP server’s IP address is being NATted and the AOS device has Autolink enabled.

If Autolink is enabled and the configuration is saved through the GUI, the AOS device may lockup while updating the N-command MSP server.

Deleting a child QoS map, followed by deleting the parent QoS map, can cause the unit to reboot.

Unframed T1 loopbacks can cause false bit errors to appear on the Netvanta router.

If the SIP ALG is enabled, SIP calls may stop working if a call is made using a source NAT through the AOS firewall immediately after a previous call was made using a destination NAT through the AOS firewall.

The 5 minute input and output rates display the same values on the Public Interface page in the Web GUI.



AOS 17.04.04.00 Release Notes

Release Notes

Release Date: April 27, 2009

Notes Revision: April 27, 2009

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.04.03.00)

Multiple-value GET-BULK SNMP requests, including OID 1.3.6.1.4.1.664.5.53.1.1.8, return incorrect values.

Multiple VLAN interfaces can be created and enabled when using the web interface on the NetVanta 123X series switches.

The NetVanta 3130 may reboot if the ADSL circuit is dropping cells at the end of an AAL5 frame.

VPN tunnels will fail to come up to another device when initiated by the NetVanta VPN device, if the crypto map lifetime is set between 32768 and 65535 seconds.

SHDSL NIM is unable to pass unfragmented packets larger than 1458 bytes.

When multiple GRE tunnel interfaces are configured on a unit, and a tunnel changes states it may cause other tunnels to change states.

The 'SNTP wait-time' setting can cause a unit to lockup if it is configured to use a larger than default wait-time.



AOS 17.04.05.00 Release Notes

Release Notes

Release Date: June 15, 2009

Notes Revision: June 15, 2009

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.04.04.00)

Issuing the command 'ip snmp server source-interface' on a NetVanta 4430 may cause the unit to reboot.

After disabling port mirroring using the 'no monitor session x' command, this feature may not work again until the unit is rebooted.

Adding a second T1 to an already configured IP unnumbered MLPPP interface in the GUI may cause loss of IP connectivity to the interface referenced by the 'ip unnumbered' command.

When attempting to auto-link to a n-Command MSP server using a hostname rather than an IP address, the link may not establish.

NetVanta 123x PoE switches may not provide power to Ruckus PoE Wifi access points.

Users may not have audio when using NAT through the SIP Transparent Proxy if Direct Media is disabled when using an Asterisk.

Contact-parameters are not always preserved correctly on messages through the SIP proxy.

When a phone performing a park call is behind the SIP Proxy, the park may fail.

When running URL filtering, accessing websites that generate malformed HTTP segments may cause the router to reboot.

IGMP snooping may allow for a spanning tree loop, which may lead to a reboot if an extensive amount of multicast traffic traverses the switch.

The SIP Proxy may fail to add Proxy ID to the outbound 180 Ringing's contact field.

Top websites and exception report email clients may send a naked LF without a preceding CR. This is in violation of RFC 2822 section 2.3.