



AOS 17.07.01.00 Release Notes

Release Notes

Release Date: Dec. 21, 2009

Notes Revision: Jay. 13, 2010

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	9700594-2A170701.biz	N/A	17.03.01.00
NetVanta 1238	9700594-2A170701.biz	N/A	17.03.01.00
NetVanta 1534	9700590-2A170701.biz	N/A	17.03.01.00
NetVanta 1544	9700544-2A170701.biz	N/A	17.05.01.00
NetVanta 1544F	9700544-2A170701.biz	N/A	17.06.01.00
NetVanta 1335	N/A	9950515-2A170701.biz	15.01.00
NetVanta 3120	N/A	9700600-2A170701.biz	14.04.00
NetVanta 3130	N/A	9700610-2A170701.biz	14.04.00
NetVanta 3200/3205 (3 rd Gen.)*	9200860-2A170701.biz	9950860-2A170701.biz	17.02.01.00
NetVanta 3305	9200880-2A170701.biz	9950880-2A170701.biz	04.02.00
NetVanta 3430	9200820-2A170701.biz	9950820-2A170701.biz	13.03.SB
NetVanta 3430 2 nd Gen.	9202820-2A170701.biz	9952820-2A170701.biz	17.05.01.00
NetVanta 3448	9200821-2A170701.biz	9950821-2A170701.biz	13.03.SB
NetVanta 3450	9200823-2A170701.biz	9950823-2A170701.biz	17.06.01.00
NetVanta 3458	9200824-2A170701.biz	9950824-2A170701.biz	17.06.01.00
NetVanta 4305***	9200890-2A170701.biz	9950890-2A170701.biz	08.01.00
NetVanta 4430	9700630-2A170701.biz	9950630-2A170701.biz	17.04.01.00
NetVanta 5305	9200990-1A170701.biz	9950990-1A170701.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.

New Features	Overview
SFP Diagnostics	<p>This feature will provide users with the ability to collect SFP diagnostic information, to help in troubleshooting connection issues when using ADTRAN SFPs.</p> <p><i>Supported Platforms</i> NetVanta 1534 & NetVanta 1544</p>
Denial of Service (DoS) Protection	<p>Provides capability to block Denial of Service Attacks on the NetVanta 1544 L3 Switch.</p> <p><i>Supported Platforms</i> NetVanta 1534 & NetVanta 1544</p>
PPP over Frame Relay Support	<p>Provides support for Layer 2 PPP and MLPPP over Frame-Relay connections.</p> <p><i>Supported Platforms</i> NetVanta 1335, NetVanta 3200/3205, NetVanta 3305, NetVanta 3430/3448, NetVanta 3450/3458, NetVanta 4305, NetVanta 4430, NetVanta 5305</p>
Safe Mode Download/RAM Disk	<p>This feature provides the ability to create a RAM disk, transfer firmware images via TFTP on to it, and then copy the firmware image to flash. This feature provides value for products that can only store one image at a time. Once the file has been copied to RAM, the primary image can be erased from flash and the image in RAM can be copied into flash.</p> <p><i>Supported Platforms</i> NetVanta 3120/3130, NetVanta 1234/1238</p>
Security Audit	<p>This tool will aid the user in identifying possible vulnerabilities in the router or switch. It will be up to the user to determine if the items discovered are true security failures and to fix any issues found. This tool does not take into account where the unit sits in the network, therefore, some items may be recorded as possible risks that are not risks once the entire network is taken into account.</p> <p><i>Supported Platforms</i> NetVanta 1234/1238, NetVanta 1335, NetVanta 1534, NetVanta 1544, NetVanta 3120/3130, NetVanta 3200/3205, NetVanta 3305, NetVanta 3430/3448, NetVanta 3450/3458, NetVanta 4305, NetVanta 4430, NetVanta 5305</p>

Enhancements	Overview
Ability to respond to IKE & IPSec on non-Primary addresses	<p>Added the ability to respond to IKE and IPSec negotiations destined for addresses other than the primary IP address, including secondary IP addresses, primary and secondary VRRP addresses, and loopback interface addresses.</p> <p><i>Supported Platforms</i> NetVanta 3120/3130, NetVanta 1335, NetVanta 3305, NetVanta 3430/3448, NetVanta 3450/3458, NetVanta 4305, NetVanta 4430, NetVanta 5305</p>
Increased Supported EVCs	<p>Increased the number of supported EVCs on the NetVanta 4430 to 20. This allows the user to create up to 20 QoS map entries with “shape-average” operations.</p> <p><i>Supported Platforms</i> NetVanta 4430</p>

Dual SYSLOG Servers	<p>Added the ability to specify 2 syslog servers in a configuration for redundancy purposes.</p> <p>Supported Platforms NetVanta 1234/1238, NetVanta 1335, NetVanta 1534, NetVanta 1544, NetVanta 3200/3205, NetVanta 3305, NetVanta 3430/3448, NetVanta 3450/3458, NetVanta 4305, NetVanta 4430, NetVanta 5305</p>
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Errata	
<i>These are issues that were discovered during internal testing, but were unresolved at the time of release.</i>	
<ul style="list-style-type: none"> • If the "ip ffe timeout udp x" command has been used, changing the value from it's default, issuing a "no ip ffe timeout udp" may return an error. <ul style="list-style-type: none"> ○ <u>Workaround</u>: Remove the command from the startup-config and reboot the unit. • Entering 'no spanning-tree port-priority' on Ethernet interface results in error if the "spanning-tree port-priority x" command has been previously entered. <ul style="list-style-type: none"> ○ <u>Workaround</u>: Remove the command from the startup-config and reboot the unit. • Creating and removing port channels may result in a small memory leak. <ul style="list-style-type: none"> ○ <u>Workaround</u>: If multiple port-channels are created and then removed, reboot unit before placing in production. • When configuring PPPoFR, no notification message will be displayed showing that the ip addresses on the FR sub-interface will be removed when cross-connecting to the PPP interface. <ul style="list-style-type: none"> ○ <u>Workaround</u>: N/A. • In the web GUI for NetVanta Switches, the LLDP page may omit or display some ports out of order. <ul style="list-style-type: none"> ○ <u>Workaround</u>: If the ports are not displayed, change the LLDP settings via the CLI. • On the NetVanta 4430, if a MAC address is manually assigned to a pre-existing BVI interface, the interface may incorrectly be deleted. <ul style="list-style-type: none"> ○ <u>Workaround</u>: No known workaround. • On the NetVanta 3448, the Spanning Tree cost for the switchports is 100 by default whereas it should be 19. <ul style="list-style-type: none"> ○ <u>Workaround</u>: Manually set the value to 19. • Some SFP info displayed in the web GUI may not match the output of the CLI and incorrectly display a "0" rather than "Unspecified" for the "Supported Multi-Mode" field. <ul style="list-style-type: none"> ○ <u>Workaround</u>: Use the CLI • The 'ip vrf forward <name>' command may return an error when applied to a Gigabit Ethernet interface without first clearing the configuration on the interface. <ul style="list-style-type: none"> ○ <u>Workaround</u>: Clear the config on the interface, and then add re-enter the command. • The QoS wizard does not display the PPP interface as a valid option for the WAN interface when the router is configured for MLPPPoFR. <ul style="list-style-type: none"> ○ <u>Workaround</u>: Configure QoS via the QoS GUI pages or via the CLI. • "No bridge-group 1 vlan-transparent" shows up in the running config even though it is the default setting. <ul style="list-style-type: none"> ○ <u>Workaround</u>: N/A. 	

- Continuously executed TCL scripts may stop running after a certain amount of time and yield the console unresponsive.
 - Workaround: No known workaround.
- Flash Provisioning on the NetVanta 4430 may return an error stating that the config file could not be found when in fact the config file is present in CFLASH.
 - Workaround: Copy the config file from CFLASH to startup-config and reload unit.
- URL filters applied to BVI interfaces may not filter as expected.
 - Workaround: No known workaround.
- Flash provisioning may fail to update firmware on the NetVanta 1544.
 - Workaround: Update firmware via another method.
- Show commands may show BVI interface to be in up/up state even when administratively shut down, although no traffic will pass.
 - Workaround: N/A. Display problem.
- The BVI interface webpage shows Traffic-Shaping, QOS-Policy, MTU, and Media-Gateway as configurable options, although these options are not configurable for BVI interfaces.
 - Workaround: N/A.
- The "bandwidth x" command can be configured on a BVI interface via the CLI, but it may not get applied to running-configuration.
 - Workaround: No know workaround.
- Deleting a PPP interface may not fully remove the cross-connect, which can cause the GUI to display the interface when it should not.
 - Workaround: Remove the interface via the CLI.
- Demand interface idle timer may not correctly reset when there is interesting traffic, which can lead the interface to disconnect prematurely.
 - Workaround: Increase the idle timeout value.
- If the demand interface disconnects due to an idle timeout more frequently than would normally be expected, the unit may reboot.
 - Workaround: Increase the idle timeout value to prevent excessive disconnects.

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.06.02)

Services and Viewers

- Port Mirroring on the NetVanta 1234, 1238, 1534, and 1544 does not include traffic sourced by the switch's CPU.
- The troubleshooting wizard may display an error when the source IP that traffic is being NAT'd to is a private IP address instead of a public IP address.
- When AAA is enabled and TACACS server is being utilized for authentication, the user may be disconnected after only one failed login attempt.
- Executing a test-pattern on a T1 interface while it is in the "Down" state may falsely indicate that the test-pattern is transmitting with no errors.
- Changing the LLDP-MED options in the Web GUI may result in unnecessary error messages.
- The Web GUI may not display the QoS map statistics when low latency queuing (LLQ) is enabled, but will

display QoS map statistics when class-based weighted fair queuing (CBWFQ) is in use

- Entering the command 'show qos interface eth 0/1' on a NetVanta 3120 may output an invalid error stating, "No such interface."
- The Frame-Relay Multilink Bundle Identifier (BID) may not be displayed in a 'show run' output.
- The help text for the dampening-interval of a track is unclear in stating under which conditions it would be enforced.
- The Network Monitor Wizard may display a false error message, "Could not set match clause IP", and prevent the wizard from completing its setup.
- The Firewall Wizard may fail to create and apply the correct policy-classes if the following ACLs already exist: wizard-ics and wizard-pfwd-1 thru wizard-pfwd-101. This is more likely to occur if the wizard runs twice.
- Removing and then re-adding an Ethernet interface to a bridge-group while traffic is passing may cause the AOS device to reboot.
- The SNTP server may cease to function and possibly cause a reboot if the 'source-interface' or 'send-unsynced' options are being used.
- Entering the 'run-tcl' command with the 'on-pass' track option may cause the TCL script to execute immediately regardless of the track status.
- Under certain conditions, the firewall wizard completes but the firewall configuration is not successfully applied to the device.
- Upgrading firmware may cause the NetVanta device to lose secondary IP addresses with 32-bit subnet masks that are defined with the "ip address range x.x.x.x x.x.x.x /32 secondary" command.
- Adding secondary IP addresses with a /32 subnet mask from the web GUI may return an error.
- If the startup configuration on an AOS device contains certain specific characters, the config may not fully load during bootup.
- Accessing a NetVanta device using Telnet or SSH when AAA is enabled may cause a reboot.
- Multiple SSH sessions to a NetVanta device if authenticated in a different order than they were created, may cause one or more of those sessions not to connect and output the message, "*****SSH Session Blocked*****."
- When using an AAA authorization exec method list, selecting the 'if-authenticated' or 'none' option may not place the user in privileged exec mode when accessing the NetVanta device.
- Multiple web-GUI sessions open simultaneously to the same AOS device can cause a reboot, if auto-refresh is enabled.
- When using port-security on the NetVanta 123x series, if sticky-macs are enabled, learned MAC addresses may not consistently be added to the configuration.
- An AOS device may lose its secondary IP addresses that were defined in a range after a reboot, causing any port forwards or administrative access using these IPs to stop functioning.
- In the Web GUI, when DHCP is enabled and a MAC Address is cloned on the interface, the AOS device may attempt to add an invalid client identifier. This invalid client-identifier may be used every time DHCP is enabled on the interface until a new configuration is uploaded.
- When polling the 3G NIM interface, SNMP OID [.1.3.6.1.2.1.47.1.1.1.1.4] can return a general failure message.
- Reloading an AOS device multiple times or sending multiple HTTP probes may cause packets to be delayed, resulting in a "'PacketRouting' has taken more than 120 seconds to process an event!" error message.
- Issuing a 'show tech' command may result in an empty showtech.txt file.

Routing, Switching and Bridging

- When implementing load balancing, 'ip load-sharing per-packet' may cause the traffic to be shared per-

destination and 'ip load-sharing per-destination' may cause the traffic to be shared per-packet.

- Under high traffic load, with processor load above 80%, ARP entries may stop being updated until the box is reloaded. During this time, a "show arp" will yield entries with TTL of 0.

Network Interfaces and Quality of Service

- Upon boot-up, a block of 8 ports on a NetVanta 1238 may not function.
- The AOS device using a SHDSL NIM for WAN connectivity may drop small packets when operating in a bridging configuration.
- If storm control has previously been invoked, disabling and then re-enabling storm control may cause the interface to shutdown.
- On the NetVanta 123x switches, shutting down the gigabit fiber port may not power down the SFP module.
- On the NetVanta 3448, the CoS-Expedite queue may drop prioritized traffic when implementing 802.1p.
- Removing the 'shape average' command from a parent map may leave the child map assigned to it even though assigning a child map to a parent map without the 'shape average' command is an invalid configuration.
- The analog modem DIM may lock up when used in conjunction with the NetVanta 1335 under high traffic loads.
- The modem on a NetVanta 3G NIM may occasionally lockup and become unresponsive.

Firewall and VPN

- Under certain conditions, the SIP ALG may cease translating RTP traffic for a call that a received SIP BYE message was not intended for.
- If the proxy ID received from the softswitch is a Request-URI, when the proxy ID is removed, the leading semi-colon may not be removed, resulting in an invalid SIP syntax. This only occurs if the proxy ID is the last parameter on the Request-URI.
- Non-SIP traffic utilizing UDP port 5060, can result in a reboot or other error due to buffer overflow if the SIP ALG is enabled.
- The SIP ALG may incorrectly parse the SDP field if the stream is sourced by an SBC using the a=rtcp attribute.
- Receiving video SDP in B2BUA application can cause 1 way audio through the SIP ALG.



AOS 17.07.02.00 Release Notes

Release Notes

Release Date: April 14, 2010

Notes Revision: April 21, 2010

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.07.01.00)

With IGMP snooping enabled, a NetVanta 1335 may reboot upon receiving a membership query.

Enabling IGMP snooping on a specific VLAN interface may cause the NetVanta switch to reboot.

Certain configurations may cause a NetVanta device's CLI to appear to lock-up when show commands are issued and the terminal length is set to a value higher than 0.

When using a Sprint 3G NIM, the log message, "OTASP Initial programming required," may appear even though OTASP programming is only required for the Verizon 3G NIM.

The "System Summary" page in the GUI can return a 503 server error if the unit is unable to retrieve LLDP information from the neighbor.

The Wireless wizard may not be able to setup a new Access Point if an interface named 'dot11ap 24' already exists.

The Web GUI may not allow TDM groups with different channel specifications to be added to the same multilink PPP interface.

The command, 'ip rtp firewall-traversal policy-timeout x', will properly accept the configured timeout value, but may display 'no ip rtp firewall-traversal policy-timeout' when a 'show run' command is issued.

When an inbound route map is applied to a BGP neighbor that filters based on a match community list statement, learned prefixes that do not include a standard community string may incorrectly be deemed invalid, preventing them from being exported to the route table.

Gigabit-ethernet switchports may show the SFP media type as "Small Form-factor Pluggable" when copper connections are used.

Issuing the 'show tech' command may generate an empty file in flash rather than a file with the expected content.

In the Web GUI, placing switchports into "auto" or "mac-based" authentication mode may cause a 503 server error.

In the Web GUI, viewing the VPN configuration page for a remote-ID that contains special characters may cause a 503 server error.

Initiating an SNMP GET on a VLAN interface may return an invalid number of discards.

Enabling multilink PPP fragmentation may cause a minute amount of packet loss if small packets arrive at a slow interval.

Ethernet interfaces may not transition into the "Test" state when looped.

LLDP commands configured by default can randomly appear in a 'show run' output.

The modem on a NetVanta 3G NIM may occasionally lockup and become unresponsive.

UDP relay can insert a bad ARP entry into the ARP table which can cause the VLAN interface to stop responding.

Under high traffic load, with processor load above 80%, ARP entries may stop being updated until the box is reloaded. During this time, a "show arp" will yield entries with TTL of 0.

When utilizing 4 wire mode (standard or enhanced) on a SHDSL NIM, the second loop may fail to complete training.

SIP Transparent Proxy may block SIP messages that contain an extra "/" at the end of the "Content-Type" field.

When utilizing an external WebSense server, DNS queries held in the buffer may be lost awaiting a reply. This adds a few seconds of delay to each new session created.

The command 'power inline 2-point' may not be displayed as an option under the help text until it is fully typed out. Once the command is applied, it functions as expected.

Certain AOS devices acting as a wireless Access Controller may reboot when a WiFi client disassociates from an attached AP.

The "Specified Port" field under the "UDP Forward Protocol" section of the UDP Relay page in the GUI does not allow more than 3 characters to be entered, prohibiting ports with more than 3 characters from being forwarded.

PAP/CHAP encrypted passwords may not be retained in the configuration after a reboot.

IGMP Snooping feature may cause a memory leak, eventually resulting in a reboot.

Packets fragmented by FRF 12 do not preserve the protocol type. This may cause adverse effects when attempting to classify traffic for QoS.

Multicast traffic addressed to 224.0.1.16/28 may cause some units to stop or transmitting and receiving on the Ethernet port of the NetVanta.

Using the up/down arrows keys within the CLI under specific circumstances may cause the AOS device to reboot.

The L3 Switching "Enabled" checkbox in the Web GUI of the NetVanta 1335 is permanently grayed out under the VLAN interface page, thus not allowing the user to enable this feature from the Web GUI.

Running a port mirror for long periods of time while switchport link changes are occurring, may cause the port mirror to stop functioning until the destination port is moved to another switchport, or the switch is rebooted.

LLDP may not properly advertise a link's speed and duplex when operating at 2.5 Gbps. This is merely a cosmetic error, and has no functional impact.



AOS 17.07.03.00 Release Notes

Release Notes

Release Date: May 12, 2010

Notes Revision: May 20, 2010

Resolved Issues

These are issues that have been resolved since the previous AOS release (17.07.02.00)

When using the 'summary-address' command in OSPF, the router may still transmit an additional route of a subnet that should be included in the summary route. This causes no routing problems, and only adds an unnecessary route to the route table.

After a VPN tunnel times out, the tunnels may be unable to reestablish, outputting an error stating the upper watermark has been reached, even if no tunnels are up.

If 'ip ffe' is enabled on a PPP interface, and PPP changes states while data is flowing through the interface, the router may reboot.

NetVanta 3120s, 3130s, and 3rd Gen 3200s/3205s may be unable to upgrade their firmware using N-Command Enterprise Edition.

Executing multiple successive SNMP walks on a NetVanta device may cause a reboot.

After issuing the SNTP server 'source-interface' command, the router may not properly source the packet from the specified interface's source IP address.

With VRRP configured, the AOS device may respond to an ARP request with the incorrect MAC address after transitioning from VRRP master to VRRP backup.

When the SIP Proxy is enabled, Bridged Line Appearance phone calls may not function properly.