



RELEASE NOTES

Switch Products
AOS version R11.3.0
July 30, 2014

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Introduction

AOS version R11.3.0 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 8*.

Configuration guides, white papers, data sheets, and other documentation can be found on ADTRAN's Support Forum, <https://supportforums.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 R11.3.0. 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	Minimum Boot ROM
NetVanta 1234/1234P (2nd Gen. only)	√	XB.01.02
NetVanta 1235P	√	R10.4.0.B1
NetVanta 1238/1238P (2nd Gen. only)	√	XB.01.02
NetVanta 1531/1531P	√	R11.1.0
NetVanta 1534	√	17.06.03.00
NetVanta 1534 (2nd Gen.)	√	17.08.01.00
NetVanta 1534P (2nd Gen.)	√	17.09.01.00
NetVanta 1535P	√	17.08.01.00
NetVanta 1544/1544F	√	17.06.04.00
NetVanta 1544 (2nd Gen.)	√	17.08.01.00
NetVanta 1544P (2nd Gen.)	√	17.09.01.00
NetVanta 1638/1638P	√	18.02.01.SC

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 R11.3.0 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 R11.3.0 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* available at <https://supportforums.adtran.com>.

- It is recommended that your browser's cache be cleared before viewing the GUI after an upgrade.

Features and Enhancements

There are no new features in AOS version R11.3.0

Fixes

This section highlights major bug fixes for all products running AOS version R11.3.0.

- If AAA was enabled, logins using SSH public key authentication failed with the message: SSH Session Blocked.
- File transfers to or from an AOS device using HTTPS were over 1300 percent slower than when using HTTP on R10.10.0 and later. This issue affected the **copy https** command, the automatic self-configuration feature, and auto-link.
- When **domain-proxy failover** was enabled and the unit entered a failover state, the domain proxy would not respond for entries that were in the host table.
- The default RADIUS enable user name was transmitted even when an alternate user name was configured.

This section highlights the Switch specific bug fixes in products running AOS version R11.3.0.

- When using a NetVanta 1531 as an access controller for NetVanta 160 series APs, the APs were unable to enable 802.11n radio capabilities.
- On a NetVanta 1531 with more than one port channel configured, bringing up an interface configured in a port-channel caused the NetVanta 1531 to reboot.
- In very rare cases, a NetVanta 1638 could get into a state where new MAC addresses could not be added to the MAC address table.
- After successfully adding or modifying a VLAN on the VLAN Interface GUI menu, refreshing the page would cause a 503 Service Unavailable response.
- In rare cases, a layer 3 switch may be unable to push a layer 3 host into the route-cache causing latency for that individual host.

Errata

The following is a list of errata that still exist in all products running AOS version R11.3.0.

- The **tacacs-server timeout** command does not have an effect until the TCP session to the TACACS+ server has been established.
- If the firmware file name received by automatic self-configuration matches the currently applied firmware file name, the automatic self-configuration process will restart every 60 seconds.
- If a firmware transfer from n-Command MSP fails, the partial firmware file is not deleted from the file system.
- Rebooting a NetVanta 160 after editing an associated MAC access list causes the AP to transmit SSID **Wireless11**.
- Configuring a NetVanta 160's channel setting to **least-congested** may not properly adjust to the least congested channel available.
- The **show interface dot11ap** <number> command may show an incorrect radio channel for a NetVanta 160.
- Copying a file larger than 20 MB from the flash memory of an AOS device via HTTP can cause the AOS device to reboot.
- The GUI of a NetVanta device acting as a wireless access controller can not display the software currently running on a connected access point.
- An AOS device may print an event message in the CLI reporting a successful NetVanta 160 software upgrade, even if the upgrade has failed.
- The command **boot config flash** <filename> does not function properly on many AOS platforms.
- A hostname entry in an ACL may fail to resolve to the correct IP address even though the AOS device's host table reflects the correct IP address. Workaround: Use IP addresses instead of hostnames when creating an ACL.
- Event messages indicating a firmware upgrade was attempted may appear in the AOS event log for NetVanta 160 APs that are not being upgraded.
- Having more than two entries in a Network Monitor ICMP probe test list displays **Tracked by: Nothing** in the **show probe** command output. This is only a display error; the probes still function correctly.
- Accessing the Web Interface via HTTPS is extremely slow.
- Wi-Fi multimedia (WMM), configured with the command **qos-mode wmm**, does not function properly on NetVanta 150 Access Points.
- WEP encryption does not function properly on NetVanta 160s.
- The current AOS implementation of DHCP message construction may result in Windows XP machines not adopting the DNS servers defined in the DHCP Offer. A workaround using a numbered IP/hex option will allow the message to be constructed in a manner that Windows XP will accept. Microsoft also offers a hotfix to resolve this Windows issue.
- The **vap-reference** command will not replicate VLAN IDs for an AP unless 802.1q encapsulation has been manually enabled on the AP expecting to receive the replicated configuration.
- A large enough drift in the system clock can cause an error when the NTP server attempts to synchronize.
- The GUI does not produce an error when VLANs are selected for a particular VAP when encapsulation 802.1q is not enabled.

- 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.
- NetVanta 150s might not properly handle immediate Access-Accept responses to Access-Request messages.
- The name of a deleted IPv4 ACL cannot be used to name a new IPv6 ACL.
- The pass phrase for the Wireless Wizard does not persist across reboots.

The following is a list of Switch specific errata that exist in products running AOS version R11.3.0.

- The VoIP wizard does not work correctly when using Internet Explorer 9 or older.
- Regularly polling the NetVanta 1544 for bridge MIB info via SNMP causes a memory leak and eventually causes the switch to reboot.
- When running R11.1.0 bootrom on a NetVanta 1531 and attempting to apply a backup firmware image from bootstrap, the switch will print out benign errors indicating packets are being dropped due to congestion.
- The ActivChassis feature can only be disabled via the CLI.
- Creating a hardware ACL with the same name as a previously created and deleted IP ACL will result in the creation of an IP ACL with an implicit permit.
- Removing port channels from the configuration of an ActivChassis device while under a heavy load can cause the ActivChassis device to reboot.
- NetVanta 1500 and NetVanta 1600 Series switches may not properly prioritize traffic across port channels.
- Certain OIDs in the Bridge-MIB may not return a value on AOS switches.
- L3 switch statistics incorrectly report forwarded frames when subjected to a traffic stream consisting of invalid IPv4 header checksum values. The frames are properly dropped by the switch, but the statistics counter erroneously reports frames being forwarded.
- A VLAN interface for a VLAN that is not accessed by other switchports will not be advertised by GVRP.
- Switch platforms count input discards on the ingress interface when receiving 802.3x pause frames.
- In certain instances, an SFP port on a NetVanta 1544 will not function with RAD MiRiCi-E3T3 SFPs.
- Port mirroring on a NetVanta 1544 switch may not mirror traffic in both directions.
- The L3 Switch Header Error and Discard counters on the NetVanta 1544P (second generation) do not increment.
- Booting a second generation NetVanta 1534 or a NetVanta 1535P that is acting as an access controller for more than 20 directly connected NetVanta 160 Access Points can cause some of the Access Points to pull incomplete configuration data from the NetVanta switch.

Upgrade Instructions

Upgrading ADTRAN products to the latest version of AOS firmware is explained in detail in the configuration guide *Upgrading Firmware in AOS*, available at <https://supportforums.adtran.com>.

Documentation Updates

The following documents were updated or newly released for AOS version R11.3.0 or later specifically for the AOS products. These documents can be found on ADTRAN's Support Forum available at <https://supportforums.adtran.com>. You can select the hyperlink below to be immediately redirected to the document.

- *AOS Command Reference Guide*