



RELEASE NOTES

Switch Products
AOS version R11.9.0
October 9, 2015

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Pre-Sales Technical Support
(800) 615-1176
application.engineer@adtran.com

Corporate Office
901 Explorer Boulevard
P.O. Box 140000
Huntsville, AL 35814-4000
Phone: (256) 963-8000
www.adtran.com

Post-Sales Technical Support
(888) 423-8726
support.adtran.com

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Introduction

AOS version R11.9.0 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 7](#).

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 R11.9.0. 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	Minimum Boot ROM
NetVanta 1234/1234P/1238P (2nd and 3rd Gen.)	XB.01.02
NetVanta 1235P	R10.4.0.B1
NetVanta 1238 (2nd Gen.)	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 1550-24/1550-24P/1550-48/1550-48P	BVS1.0
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 R11.9.0 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 R11.9.0 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](https://supportforums.adtran.com) 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 major features, commands, or behavioral changes for switch products running AOS version R11.9.0.

Fixes

This section highlights major bug fixes for all products running AOS version R11.9.0.

- SNMP over IPv6 failed if the egress interface did not have a global IPv6 address.
- Beginning with R11.7.0, the default channel settings for the 5 GHz radio on NetVanta 160 APs did not allow the use of all available channels.
- Upgrading to R11.7.0 or R11.8.0 caused NetVanta 150 APs to lose their static RF channel assignments.
- If NetVanta 160 APs using the 802.11bgn radios were configured with the **least-congested** RF channel setting, upgrading them to R11.7.0 or R11.8.0 would statically set their RF channel to a non-recommended value.
- The Discovered Time value listed in the output of the **show dot11 access-point detail** command improperly increased with the system clock.
- In rare cases, configuring certain AOS devices to email exception reports caused the device to reboot when it attempted to email an exception report to a SMTP server that supported STARTTLS.
- In some cases, pasting in a configuration via the console port while a unit was under heavy load corrupted the pasted configuration.

This section highlights the Switch specific bug fixes in products running AOS version R11.9.0.

- In rare cases, NetVanta 1550 series switches became unresponsive, requiring a reboot to restore functionality.
- Switchports could not be removed from a port channel interface using the GUI.
- When rebooting a NetVanta 1531 or 1550, a software watchdog error displayed immediately prior to the reboot, indicating the watchdog application had crashed.

Errata

The following is a list of errata that still exist in all products running AOS version R11.9.0.

- Assigning the IP address 192.168.190.1 to a NetVanta 160 from an AOS controller prevents it from pulling a full configuration from the AOS controller.
- In some command sets, the **exit** command is not visible even though it still functions properly.
- 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 will display **Tracked by: Nothing** in the **show probe** command output. This is merely a display error; the probes still function correctly.
- Accessing the GUI via HTTPS may be slow.
- 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.
- EAP Identity Responses from a wireless client that do not contain an Identity field can result in the NetVanta 150 creating a malformed RADIUS packet.
- NetVanta 150s may 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 following is a list of Switch specific errata that exist in products running AOS version R11.9.0.

- Link LEDs on NetVanta 1531s do not change status after the switch has booted, although the switchports still function properly.
- On a NetVanta 1544F, a switchport interface with a connected SFP interconnect cable cannot be shut down properly.
- The idle process on a NetVanta 1638, visible with the command **show processes cpu**, is named **procnto-600-**, rather than **Idle**, like other AOS platforms.
- The active CPU process load percentages on a NetVanta 1531, visible via the command **show processes cpu**, do not properly add up to 100 percent.
- In an ActivChassis configuration utilizing port channels that are distributed among individual line cards, if more than 1 Gbps is sent across the port channel the ActivChassis will sometimes discard some traffic .
- Hardware access lists cannot be used to block traffic destined for the management interface of a NetVanta 1638.
- Traffic destined for devices that match static ARP entries in a Layer 3 switch will experience extra latency if a static MAC entry is not present for the same device.
- ICMP responses from a VLAN interface on the NetVanta 1531 may be periodically latent. ICMP routed or switched through the unit is not affected.
- When running R11.1.0 boot ROM 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.
- 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 while an ActivChassis is under a heavy load could cause the ActivChassis to reboot.
- On NetVanta 1638s in ActivChassis mode, spanning tree will reconverge at non-rapid spanning tree rates (about 30 seconds) if there are spanning tree topology changes in the network.
- If an ActivChassis line card has NetVanta APs physically attached, and the line card is removed and added back to the ActivChassis stack, the NetVanta APs will not properly indicate the AC that controls them. Bouncing the switchport on the line card or rebooting the ActivChassis master will resolve this issue.
- NetVanta 1500 and 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.
- Port mirroring on a NetVanta 1544 switch might not mirror traffic in both directions.

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 R11.9.0 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](#)*