RELEASE NOTES

Switch Products
AOS version R11.1.2
April 25, 2014

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Introduction

AOS version R11.1.2 is a maintenance release that 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 5*.

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 R11.1.2. 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	SBC Feature Pack	Minimum Boot ROM
NetVanta 1531/1531P	√			R11.1.0

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 R11.1.2 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 R11.1.2 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

This section highlights the major features, commands, and behavioral changes for all Converged Access products running AOS version R11.1.0.

- Added support for NetVanta 1531 and 1531P switches, ADTRAN's first 12 port switches.

Fixes

This section highlights major bug fixes for all products running AOS version R11.1.2.

- Issuing certain **privilege configterminal all** commands caused the AOS device to reboot.

- It was not possible to **shutdown** or enable (**no shutdown**) a track from within the weighted list configuration mode.

- If power was removed and then reapplied while an AOS device was regenerating an SSH key, the key may have been corrupted, causing the unit to reboot when a user tried to connect via SSH.

- It was not possible to update the authentication parameters of a configured SNMP user without first removing the user.

- If two CLI Privilege level commands were configured with the **all** keyword, only the least specific of the two commands would take effect. For example, with the following configuration all **show ip** commands would inadvertently be set to level 7:

    privilege exec all level 7 show

    privilege exec all level 6 show ip

- When TACACS+ accounting was enabled, it was possible for a long duration brute force SSH attack to cause the unit to run out of memory and reboot.

- If an SSH client that performs key re-exchange was used, when a re-exchange was attempted the SSH session would become unresponsive.

- SSH sessions to an AOS device that did not progress beyond the **authentication in progress** state could not be cleared without a reboot.

- Executing a Tcl script that issued the **show tech** command may have caused the AOS device to be unable to run another show tech command until the device was rebooted.

- When command authorization was enabled, issuing a **show** command with the **realtime** parameter did not display the statistics in real time.

This section highlights the Switch specific bug fixes in products running AOS version R11.1.2.

- While booting up, the NetVanta 1531 printed out the benign error **handler returned an error for function number 112**.

- In rare cases, some AOS switches may have erroneously indicated that they had rebooted with a core dump although the unit did not actually reboot due to a software issue.

Errata

The following is a list of errata that still exist in all products running AOS version R11.1.2.

- If an SNMPv3 group name is configured that matches the name of an existing SNMP community, the SNMPv3 group will not be added to the configuration. The workaround is to use a different name for the group or remove the community.

- 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 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.

- 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.

- When configured for **terminal length 0** certain **show** commands will not provide complete output.

- 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 VLAN ID for an access point cannot be changed using the GUI.

- 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.

- Browsing to the Switchports menu from the Port Security menu on the NetVanta 1335 WiFi GUI results in a 503 Service Unavailable error.

- 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 R11.1.2.

- In R11.1.0, when attempting to apply a backup firmware image to a NetVanta 1531 from bootstrap, the switch will print out benign errors indicating packets are being dropped due to congestion.

- In the GUI, if an EPS is not connected, an AOS switch may indicate the EPS fan status is unknown.

- The GUI interface of certain AOS switches may incorrectly show an EPS section, even if that switch does not support an EPS.

- 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.

- A standard MAC ACL can be created with the same name as an existing extended MAC ACL.

- Legacy switch stacking can not be configured if VLAN 2386 is created prior to enabling stacking.

- The chassis fans in some NetVanta PoE switches oscillate at a higher frequency than expected during periods when the switch is not being heavily utilized.

- 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 a second generation NetVanta 123X switch.

- 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.

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 R11.1.2 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*

- *Layer 2/Layer 3 Carrier Ethernet Service in AOS*

- *Configuring Ethernet OAM Using Y.1731*

- *Configuring Tcl Scripting in AOS*

- *Configuring DHCPv6 in AOS*

- *Configuring IPv6 in AOS*

- *Configuring Network Synchronization in AOS*