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

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# 1. Introduction

AOS version R13.10.2 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 9.

Configuration guides, white papers, data sheets, and other documentation can be found on ADTRAN's Support Community, <https://supportcommunity.adtran.com>. The contents of these release notes will focus on the platforms listed in “[Supported Platforms](#)” on page 4. Additional information specific to AOS, and the products supported in this release, is outlined in “[System Notes](#)” on page 13.

## 2. Supported Platforms

[Table 1](#) lists the platforms that are supported in AOS version R13.10.2. 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 (email [support@adtran.com](mailto:support@adtran.com) or call (888) 423-8726) for assistance.

**Table 1. Supported Platforms**

Platform	Standard Feature Pack	Enhanced Feature Pack	SBC Feature Pack	Minimum Boot ROM
NetVanta 1234/1234P/1238/1238P (2nd and 3rd Gen.)	✓			XB.01.02
NetVanta 1531/1531P	✓			R11.1.0
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	✓			BVS1.0
NetVanta 1638/1638P	✓			18.02.01.SC
NetVanta 3140	✓	✓	✓	R11.5.0
NetVanta 3148	✓	✓	✓	R11.3.0.B3
NetVanta 3200/3205 (3rd Gen.)	✓	✓		17.02.01.00
NetVanta 3305 (2nd Gen.)	✓	✓		04.02.00
NetVanta 3430	✓	✓		13.03.SB
NetVanta 3430 (2nd Gen.)	✓	✓	✓	17.05.01.00
NetVanta 3448	✓	✓	✓	13.03.SB
NetVanta 3450	✓	✓		17.06.01.00
NetVanta 3458	✓	✓		17.06.01.00
NetVanta 4148	✓	✓	✓	R11.3.0.B3

**Table 1. Supported Platforms (Continued)**

Platform	Standard Feature Pack	Enhanced Feature Pack	SBC Feature Pack	Minimum Boot ROM
NetVanta 4305 (2nd Gen.)	✓	✓		08.01.00
NetVanta 4430	✓	✓	✓	17.04.01.00
NetVanta 4660		✓	✓	R10.10.0.B5
NetVanta 5660		✓	✓	R11.4.1.B2
NetVanta 6250		✓	✓	R10.9.0
NetVanta 6310/6330		✓	✓	A3.01.B2
NetVanta 6360		✓	✓	R11.2.0
Total Access 900 Series (2nd Gen.)		✓		14.04.00
Total Access 900e Series (2nd Gen.)		✓	✓	14.05.00.SA
Total Access 900 Series (3rd Gen.)		✓		R13.7.0.B1
Total Access 900e Series (3rd Gen.)		✓	✓	R10.9.0

## 3. Features and Enhancements

### General Features in R13.10.0

This section highlights the major features, commands, and behavioral changes for all products running AOS version R13.10.0.

- Upgraded libssh2 to 1.9.0 and applied the fix for CVE-2019-17498.
- Upgraded OpenSSL to 1.1.1g.

### Voice Features in R13.10.2

This section highlights the major voice related features, commands, and behavioral changes for all products running AOS version R13.10.2.

- Extended the maximum SIP identity length to 40 characters.

### Voice Features in R13.10.0

This section highlights the major voice related features, commands, and behavioral changes for all products running AOS version R13.10.0.

- Updated the VQM GUI to use HTML5 to remove the need for Adobe Flash.
- Added the ability to run VQM reporter on a different VRF than the SIP stack.

## 4. Fixes

### General Bug Fixes in R13.10.2

This section highlights major bug fixes for all products running AOS version R13.10.2.

- Decreased the amount of time required for execution of the **show track** command from 15 minutes to 2 minutes when 1,000 tracks were configured.

### General Bug Fixes in R13.10.1.HC

This section highlights major bug fixes for all products running AOS version R13.10.1.HC.

- Fixed an issue on the NetVanta 3148 and 4148 in which throughput between routed interfaces and switch ports was poor.
- Added the sysObjID for the NetVanta 4148 without PoE (P/N 17004148F1) to the adtrantc MIB.
- Fixed an issue on the NetVanta 3148 and 4148 in which the PoE LEDs for switch ports 2 and 8 did not function.

### General Bug Fixes in R13.10.1.HA

This section highlights major bug fixes for all products running AOS version R13.10.1.HA.

- Fixed an issue with LLDP PoE negotiation on the NetVanta 3148 and 4148.



#### NOTE

*The AOS R13.10.1.HA code was only made available for the NetVanta 3148 and 4148 products.*

### General Bug Fixes in R13.10.1

This section highlights major bug fixes for all products running AOS version R13.10.1.

- Fixed an issue in which exceptions may have been seen during boot on devices running R13.10.0.
- Fixed an issue in which the error message was misleading when the maximum number of configured tracks had been reached.
- Fixed an issue in which a 503 error was returned on physical interface pages in the GUI if an invalid IP address or subnet mask was configured.
- Fixed an issue in which the **Licensed Feature Summary** in the GUI only displayed the **SIP Call Capacity** from the first installed license instead of the sum of the capacity of all installed licenses.
- Fixed an issue in which SSH and SCP authentication failed when using the **myprivkey** parameter with RSA host keys.
- Removed the ability to configure RC4 ciphers on the HTTPS server and TLS profiles. RC4 was removed in AOS R13.10.0.

## General Bug Fixes in R13.10.0

This section highlights major bug fixes for all products running AOS version R13.10.0.

- Fixed an issue in which a reboot may have occurred on routers and IP Business Gateways in rare scenarios.
- Fixed an issue in which a reboot may have occurred if the AOS SSH client presented a prompt to accept or reject a SSH host key on an existing SSH session.
- Fixed an issue in which a reboot may have occurred when AOS attempted to process an X.509 certificate.
- Fixed an issue in which a reboot may have occurred when an AOS application using TLS attempted to establish a connection.
- Fixed an issue in which a reboot may have occurred when the HTTPS client was used.

## Carrier Ethernet Specific Bug Fixes in R13.10.2

This section highlights Carrier Ethernet specific bug fixes in AOS version R13.10.2.

- Fixed an issue in which Y.1731 ETH-LB was unsuccessful if initiated from an AOS device with an uptime greater than 49.7 days.
- Fixed an issue in which a lockup and exception may have occurred if a large number of Y.1731 CC sessions were configured.
- Fixed an issue in which the hardware forwarding table could get out of sync when a Gratuitous ARP was received while the unit was under heavy load.

## Carrier Ethernet Specific Bug Fixes in R13.10.0

This section highlights Carrier Ethernet specific bug fixes in AOS version R13.10.0.

- Fixed an issue in which only 5 of the 8 available on-demand Y.1731 LM and DM performance measurements were displayed.

## Voice Specific Bug Fixes in R13.10.2

This section highlights voice specific bug fixes in AOS version R13.10.2.

- Fixed an issue in which RFC 3680 subscriptions may have been initiated to a server with which the device was not registered.
- Fixed an issue in which a SIP registration state track would enter the failed state if deregistration from the previously selected server failed after a successful server rollover when using validated SIP registration.
- Fixed an issue in which a reboot may have occurred in rare cases if HMR was configured.
- Fixed an issue in which a SIP dialog was not formed upon a successful RFC 3680 subscription.
- Fixed an issue in which multiple Authorization or Proxy-Authorization headers may have been included in SIP requests. This issue was introduced in R13.9.0.

- Fixed an issue in which FXS ports would ring indefinitely if a MGCP SignalRequest for L/r6 or L/r7 was received.
- Fixed an issue in which TLS mutual authentication did not work with secondary SIP servers.
  
- Fixed an issue in which SIP server TLS certificate validation failed if the CA certificate for validating external servers was not the first listed CA certificate in the CA profile.
- Fixed an issue in which authentication may not have been sent in SIP BYE and REFER requests after being challenged for authentication. This issue was introduced in R13.9.0.
- Fixed an issue in which SIP SUBSCRIBE requests sent in response to an authentication challenge may not have included the authorization header.

## Voice Specific Bug Fixes in R13.10.0

This section highlights voice specific bug fixes in AOS version R13.10.0.

- Fixed an issue in which the audio media connection address on a received server-side reINVITE was not anchored properly when using media anchoring with the SIP proxy and an on-hold video media description was also present.
- Fixed an issue in which a reINVITE may not have been resent upon receipt of a 491 Request Pending response.
- Fixed an issue introduced in R13.8.0 in which SIP registrations may have failed with the following error: Failed to Add saved Authorization header to REGISTER Request.
- Fixed an issue in which calls were reattempted indefinitely instead of failing as expected once the SIP rollover timer expired if a response to an INVITE was not received on an outbound call on a SIP trunk that had an outbound proxy configured.
- Fixed an issue in which some characters valid in SIP URIs, but not analog caller ID numbers, were not sent in the From, Contact, and P-Asserted-Identity headers in outbound INVITES.
- Fixed an issue in which the SDP connection address was changed to the configured media-gateway IP address on the egress interface instead of preserving the connection address of 0.0.0.0 when RFC 2543 hold SDP was sent through the SIP proxy with media anchoring enabled.

## Switch Specific Bug Fixes in R13.10.0

This section highlights switch specific bug fixes in AOS version R13.10.0.

- Fixed an issue in which memory was leaked when using IGMP snooping on a VLAN that had membership on a port channel. Over time, the memory leak would result in a reboot.
- Fixed an issue in which the **no spanning-tree edgeport** interface command did not persist through a reboot if **spanning-tree edgeport default** was configured globally.



## 5. Errata

### General Errata

The following is a list of errata that exists in all products running AOS version R13.10.2.

- A reboot may occur when running line rate traffic on the NetVanta 3148 and 4148 through an interface that has an access-policy assigned that contains discard entries.
- A remote payload loopback initiated from the DSX interface (t1 0/2) does not function properly on the Total Access 900 third generation.
- The network (t1 0/1) and DSX (t1 0/2) interfaces transmit B8ZS coded signals when configured for AMI coding on the Total Access 900 third generation.
- GRE over IPsec is not supported on the NetVanta 3148 and 4148. It will be supported in a future release.
- The sequence number in the TCP RST generated by the firewall when clearing a policy-session entry does not comply with RFC 793. This issue occurs when clearing a policy-session entry manually via the CLI and during failover if **ip firewall fast-nat-failover** and/or **ip firewall fast-allow-failover** are configured.
- Router advertisements for delegated prefixes assigned to a interface do not use the valid lifetime specified in the received IA\_PD Prefix option. **Workaround:** Configure **ipv6 nd prefix named-prefix <prefix name> <prefix sub-bits>** for each delegated prefix assigned to the interface.
- Making any changes in the GUI for an Ethernet interface configured for DHCP causes the DHCP client to perform a DHCP release/renew on that interface when the changes are applied.
- A few legacy cellular interface commands were incorrectly removed when USB LTE support was added. The removed commands include:
  - ◆ **snmp trap cellular**
  - ◆ **snmp trap link-status**
  - ◆ **snmp trap threshold-ecio**
  - ◆ **snmp trap threshold-rssi**
- The Netvanta 3140 with Novatel USB 551L will dribble a small amount of lost frames with packets smaller than 512 bytes. The loss occurs in the modem. This issue is to document that the Novatel USB 551L modem will drop a small percentage (<1%) of packets. We also found these same drops occur when the 551L is connected to a laptop.
- 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.
- If a track is configured to monitor the line protocol of an interface configured for 802.1q, the track will never go into a passing state even the interface is up. This issue does not affect the NetVanta 4660, 5660, or 6360. **Workaround:** Track the line protocol of the subinterface.
- In some command sets, the **exit** command is not visible even though it still functions properly.
- Speed and duplex settings are displayed with on MEF Ethernet interfaces in **show running-config verbose** command output, even though those options are not valid and cannot be configured for that type of interface.
- In the VQM RTP Monitoring menu, the refresh button refreshes the displayed graphic, but it also duplicates information in the lower part of the menu. In addition, when the cursor hovers over a data point, multiple instances of the same data display.

- In the VQM RTP Monitoring menu, the Source IPs and Interfaces menus have invisible data points that appear and display data when the cursor hovers over them. The invisible data point information duplicates a visible data point and can usually be found hidden above the visible data point.
- On the NetVanta 3430, the setup wizard in the GUI can freeze with a **Please Wait** message.
- The output of **show qos map interface <interface>** shows **ce-vlan-id** instead of **vlan-id** and **ce-vlan-pri** instead of **cos** on products other than the NetVanta 4660.
- On a NetVanta 4430, information for an inserted SFP does not display correctly.
- Ethernet interfaces in third generation Total Access 900e units are not visible in the Data > IP Interfaces GUI menu. These interfaces are visible and can be configured from the System > Physical Interfaces menu instead.
- The Total Access 900e (third generation) and NetVanta 6250 send a cold start SNMP trap on reload instead of a warm start trap.
- On very rare occasions, port T1 3/3 on an Octal T1 NIM can stop negotiating LCP when it is part of an MLPPP bundle. Rebooting the device will restore the interface.
- On the NetVanta 6310 or 6330, if a SHDSL circuit with a detected bad splice retrains to a different line rate, the distance of the bad splice will display incorrectly.
- On the NetVanta 6310 or 6330, if the top level ATM interface on a SHDSL ATM NIM2 module is disabled and re-enabled, the ATM circuit will no longer be able to pass traffic. The ADTRAN unit must be rebooted to correct the problem.
- When using a T1/E1 EFM NIM2 in the NetVanta 6310 or 6330, the EFM counters do not increment as traffic passes through the device.
- Removing a USB modem from the USB NIM while active could cause the AOS device to reboot. Shutting down the demand interface being used by the modem prior to removing the modem will prevent this reboot.
- 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.
- VQM may show a loopback interface in the GUI when a loopback interface is not configured.
- The **called-number** command on a demand interface does not function properly.
- When using XAUTH with a VPN client, an AOS device requests CHAP authentication from the client but does not send a CHAP challenge payload. This can cause issues with VPN clients that expect to receive this payload.
- If a USB modem is physically disconnected from a USB WWAN NIM while active NIM is active, the demand interface being used by the modem will not automatically shut down. The demand interface should be disabled before removing the modem to prevent this issue.
- On the NetVanta 6310/6330, with FFE enabled, passing traffic from the Ethernet 0/1 interface out an Ethernet NIM2 can cause the Ethernet 0/1 interface to fail. The interface is recovered with a reboot. Disabling FFE on the Ethernet 0/1 interface prevents the 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.
- Updating PRL values on a Sprint NetVanta 3G NIM may not function properly.

- 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.
- When a switchport on a NetVanta 3458 is configured for **port-security**, it does not receive BPDUs. If multiple connections between the NetVanta 3458 and another switch are made, a switching loop could occur because both ports will automatically enter a forwarding state even though the Spanning Tree protocol should cause one port to enter a blocking state.
- The output of the command **show ethernet cfm mep local** may display an incorrect maintenance association for a MEP ID if multiple maintenance associations are configured on the unit.

## Carrier Ethernet Specific Errata

The following is a list of Carrier Ethernet specific errata that exist in products running AOS version R13.10.2.

- The Invalid CE VLAN ID counter does not function on the GigabitEthernet 0/1 interface on the NetVanta 4660, 5660, and 6360 because GigabitEthernet 0/1 is not intended for use as a UNI interface for Layer 2 services on these platforms.
- The **efm-group** interface type option is missing from the **tunnel source** command on Tunnel interfaces.

## Voice Specific Errata

The following is a list of voice specific errata that exist in products running AOS version R13.10.2.

- In rare cases, SIP REGISTER requests may fail to be sent. This issue is currently believed to have been introduced in R13.9.0.
- If a voice trunk is removed while calls are active, a reboot may occur.
- Enabling the SIP stack on a device allocates numerous resources. If this resource allocation fails, the device will reboot. Multiple sockets must be available and local SIP ports, typically UDP and TCP 5060, must be available as well, otherwise the resource allocation will fail and the device will reboot.
- When using the SIP proxy with media anchoring, VQM reports incorrect information for LocalURI, RemoteURI, and LocalCaller if a reINVITE that modifies the SDP is received from the called party during a call.
- Issuing the command **clear voice call active** with active MGCP calls may result in a reboot.
- If **sip tls** is configured while **sip** is disabled, **no sip tls** must be issued before **sip** can be enabled, otherwise the following error will be displayed: %Error: Failed to modify SIP Access-class with new VRF.
- If a CA profile is removed while SIP TLS calls using that profile are active, BYE messages will not be sent for any of the active calls.
- The ERL tool is not functional on the NetVanta 6360.
- On the NetVanta 6360, if the onboard FXO port is configured to receive digits, a 500 ms delay is required after answering before receiving the first DTMF digit.

- Receiving an initial INVITE with both audio and T.38 SDP will result in the call being placed on hold.
- In AOS R10.4.0 and higher, modem-passthrough will fail to send a reINVITE to G.711 if the endpoint is configured with a codec-list that does not contain G.711.
- The command **ip mgcp qos dscp <value>** will not take effect until either **ip mgcp** is disabled and then re-enabled or the AOS device is reset.
- When the SIP server monitor clears the primary SIP server from a delayed state due to a failure of the secondary SIP server, there will be a 60-second delay until a SIP registration is attempted to the primary SIP server. This delay will not occur if the SIP server monitor is clearing the secondary SIP server from a delayed state due to a failure of the primary SIP server.
- On the Total Access 900e (third generation) and NetVanta 6250, SIP must be enabled in the running configuration whenever MGCP is used for voice.
- If an ADTRAN unit is configured with single call appearance mode, forwarded calls on a PRI trunk will fail.
- When using media anchoring, receiving a 183 Session Progress after a previous 183 on hairpinned calls can result in no early media if the SDP in the second 183 differs from the first.
- Echo cancellation is not enabled on three-way calls when using the local conferencing feature.
- With the ADTRAN unit set for **voice flashhook mode transparent**, the conference originator must wait for the third-party to answer before executing the flashhook to initiate the conference.
- The Total Access 900e Series (second generation) cannot properly handle more than 40 simultaneous E&M RBS calls. More than 40 simultaneously active calls could result in no dial tone or no audio on the last 8 channels.
- On the NetVanta 6310/6330 Series, if a SIP trunk is trying to register a large number of users and the registration fails, activating **debug sip trunk-registration** will cause the Telnet and console connection to become unresponsive. A reboot clears the condition.

## Switch Specific Errata

The following is a list of switch specific errata that exist in products running AOS version R13.10.2.

- PoE+ devices that require negotiation via LLDP MDI TLV will not be powered by NetVanta 1638P switches configured in ActivChassis mode.
- 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.
- Certain NetVanta PoE switches require the command **power inline 2-point** be configured on applicable switchports in order to power Polycom VVX phones with three attached color expansion modules.
- 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.
- 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.
- 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 1638 units 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.
- Certain OIDs in the Bridge-MIB may not return a value on AOS switches.
- Port mirroring on a NetVanta 123x (second and third generation) 1534, and 1544 cannot send transmit mirrored frames without a VLAN tag.

## 6. 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 R13.10.2 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 R13.10.2 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 online at <https://supportcommunity.adtran.com>.

- It is recommended that your browser's cache be cleared before viewing the GUI after an upgrade.
- MGCP is not supported on the NetVanta 6360.
- As of R11.8.0, a valid SBC call capacity license is required for SIP B2BUA functionality on the following products:
  - ◆ NetVanta 6250
  - ◆ NetVanta 6360
  - ◆ Total Access 900e (third generation)

## 7. 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://supportcommunity.adtran.com>.

## 8. Warranty and Contact Information

Warranty information can be found online by visiting [www.adtran.com/warranty](http://www.adtran.com/warranty).

To contact ADTRAN, choose one of the following methods:

Department	Contact Information	
<b>Customer Care</b>	From within the U.S.:	(888) 4ADTRAN ((888)-423-8726)+
	From outside the U.S.:	+1 (256) 963-8716
<b>Technical Support</b>	Support Community	<a href="http://supportcommunity.adtran.com">supportcommunity.adtran.com</a>
	Product Support:	<a href="http://www.adtran.com/support">www.adtran.com/support</a>
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