# Adtran Operating System R14.3.0 Release Notes

Release Notes
6AOSRN1430-40A
October 2023



#### To the Holder of this Document

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Introduction R14.3.0 Release Notes

#### 1. Introduction

AOS version R14.3.0 is a major system release that introduces new features and addresses bug fixes and 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.

Configuration guides, white papers, data sheets, and other documentation can be found on Adtran's Support Forum, <a href="https://supportforums.adtran.com">https://supportforums.adtran.com</a>. The contents of these release notes will focus on the platforms listed in "System Notes" on page 10. Additional information specific to AOS is outlined in "System Notes" on page 10.

# 2. Supported Platforms

Table 1 lists the platforms that are supported in AOS version R14.3.0. 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.

**Table 1. Supported Platforms** 

Platform	Standard Feature Pack	Enhanced Feature Pack	SBC Feature Pack	Minimum Boot ROM
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
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 (3rd Gen)		✓		R13.7.0.B1
Total Access 900e Series (3rd Gen.)		✓	✓	R10.9.0

R14.3.0 Release Notes Features and Enhancements

## 3. Features and Enhancements

#### General Features in 14.3.0

This section highlights the major features, commands, and behavioral changes for all products running AOS version R14.3.0.

- AD-257092 Added support for the new software licensing platform.
- AD-246787 Added support for 3072-bit and 4096-bit RSA SSH keys. As part of this support, updates to the **ssh key regenerate** command were introduced in R14.3.0 to include the following variations:
  - ssh key regenerate dsa (regenerates the SSH DSA key)
  - ssh key regenerate rsa [2048 | 3072 | 4096] (regenerates SSH RSA key and allows for optional specification of 2048-bit, 3072-bit, or 4096-bit key lengths).
  - ssh key regenrate sftp [dsa | rsa [2048 | 3072 | 4096]] (regenerates SFTP keys and allows for optional specification of DSA or RSA keys and RSA key lengths).

#### 4. Fixes

■ AOS-43807

■ AOS-43726

Monitoring was enabled.

## General Bug Fixes in 14.3.0

This section highlights major bug fixes for all products running AOS version R14.3.0.

This section highlights major bug fixes for all products running AOS version R14.3.0.		
■ AOS-43987	Fixed an issue in which HTTP error reports were generated when configuring QoS in the GUI on the NetVanta 3148 and 4148 devices.	
■ AOS-43986	Fixed an issue in which a crash may have occurred when configuring QoS in the GUI on the NetVanta 3148 and 4148 devices.	
■ AOS-43969	Fixed an issue in which the PPP client responded with a null Conf-Nak in response to a Conf-Req for EAP authentication. The PPP client now sends a Conf-Nak listing the supported authentication methods.	
■ AOS-43939	Fixed an issue in which the AOS GUI was not functioning correctly and all left-menu sidebar navigation and configuration options were missing, as were relevant system information and other items.	
■ AOS-43868	Fixed an issue in which a memory leak occurred when using the SFTP client.	
■ AOS-43866	Fixed an issue in which the FTP, HTTP, HTTPS, SNMP, and Telnet servers bound sockets when disabled.	
■ AOS-43861	Fixed an issue in which the <b>adGenAOSQoSClassifierDirection</b> OID was defined as an integer but implemented as a gauge.	
■ AOS-43854	Backported the fix for CVE-2008-7220 in the AOS GUI.	
■ AOS-43831	Fixed an issue in which the output of the <b>show int shdsl 1/1 performance-statistics 15 96</b> command listed a value of <b>N/A</b> for all statistics.	
■ AOS-43830	Fixed an issue in which the current date was displayed for previous day 24-hour intervals on the interface PM counters.	

has been removed and the interface MTU settings is now honored.

Fixed an issue in which a reboot may have occurred on the NetVanta 3148 and 4148 if Voice Quality

Fixed an issue in which the ping command had a hard-coded MTU of 1280 for IPv6 pinging. That limit

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- AOS-43659 Fixed an issue in which slow transfer rates were seen when transferring files to the unit via SCP using the AOS SCP server.
- AD-219485 Updated the output of the **show interface ppp** and the **show system-control-evc** commands to replace the **negotiated MTU** with **near-end MTU** information.

#### **Carrier Ethernet Specific Bug Fixes in 14.3.0**

This section highlights major bug fixes for all products running AOS version R14.3.0.

■ AOS-43342 Fixed an issue in which EVC loopback did not work if the UNI interface was down and no SFP was inserted.

#### Voice Specific Bug Fixes in 14.3.0

This section highlights voice specific bug fixes in AOS version R14.3.0.

■ AOS-43931	Fixed an issue in which a reboot could occur if VQM was enabled.
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- AOS-43882 Fixed an issue in which the time-to-live (TTL) value for DNS SRV records was overwritten by the TTL of A records with the same name. This issue could result in the SRV record not being refreshed before expiration, in which case, the record would drop out of the host table.
- AOS-43872 Fixed an issue in which the call was abandoned with no feedback to the caller if a server rollover occurred and SIP validated failover was enabled. With the fix, the call is re-attempted on the same trunk using the server to which the user has just registered and the user will hear call progress tones as dictated by the SIP responses.
- AOS-43860 Fixed an issue in which the SIP proxy may have transmitted new, in-dialog requests using UDP instead of TLS as directed by the Contact header.
- AOS-43856 Fixed an issue in which SIP access classes were not applied to SIP TLS sockets.
- AOS-43837 Fixed an issue in which party B was dropped and party C was placed on hold if a transfer of B to C failed. The correct behavior is for B to remain on hold and for C to be dropped. Additionally, an issue was fixed in which dial tone followed by fast busy was played once party A went off hook after the failed transfer. The correct behavior is for party A to be connected to the party on hold (party B) when going off hook after the failed transfer.
- AOS-43823 Fixed an issue in which the FXS port rang continuously after Caller ID generation when an Alert-Info header for the Bellcore-dr5 distinctive ring was present in the received INVITE.

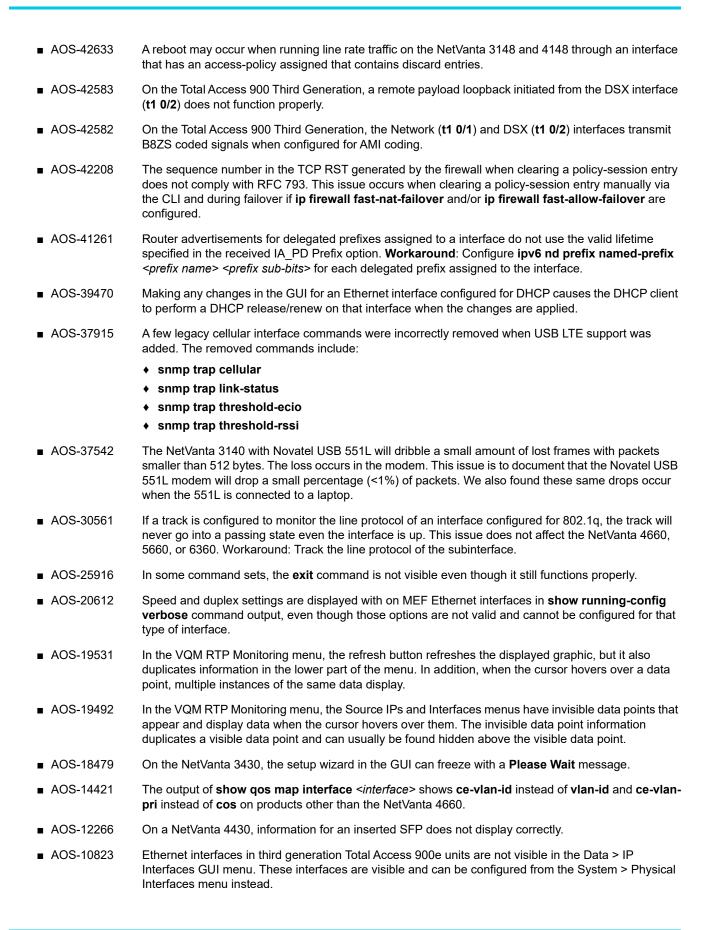
#### 5. Errata

#### **General Errata**

The following is a list of errata that still exist in all products running AOS version R14.3.0.

- AD-255105 Traffic shaping on VLAN interfaces is not supported on the NetVanta 3148 and 4148.
- AOS-43993 Using the GUI to configure T1 interfaces on a Total Access 900 (3rd Gen.) results in a 503 error.
- AOS-43222 An SNMP walk may be unable to return some input or output QoS policies assigned to interfaces if multiple interfaces have both input and output QoS policies assigned.
- AOS-42891 On the NetVanta 3148 and 4148, the output of **show power inline** lists 12 gigabit-switchports instead of 8.

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■ AOS-8519	The Total Access 900e (third generation) and NetVanta 6250 send a cold start SNMP trap on reload instead of a warm start trap.
■ AOS-5584	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.
■ AOS-5580	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.
■ AOS-5577	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.
■ AOS-1653	Having more than two entries in a Network Monitor ICMP probe test list will display <b>Tracked by: Nothing</b> in the <b>show probe</b> command output. This is merely a display error; the probes still function correctly.
■ AOS-1124	VQM may show a loopback interface in the GUI when a loopback interface is not configured.
■ IN-25468	The called-number command on a demand interface does not function properly.
■ IN-24433	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.
■ IN-22458	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.
■ IN-10479	The name of a deleted IPv4 ACL cannot be used to name a new IPv6 ACL.
■ IN-1020	When a switchport on a NetVanta 3458 is configured for <b>port-security</b> , 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.
■ IA-13463	The output of the command <b>show ethernet cfm mep local</b> may show an incorrect maintenance association for a MEPID 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 R14.3.0.

■ AOS-43266	Y.1721 Ethernet Continuity Check (ETH-CC) frames may not be sent at the configured interval if NTP
	is not configured or synchronized.

- AOS-43265 On the NetVanta 4660, a small percentage of frames may be discarded if NTP is not configured or synchronized.
- AOS-41517 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 on these platforms.
- AOS-22021 The **efm-group** interface type option is missing from the **tunnel source** command on Tunnel interfaces.

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## Voice Specific Errata

The following is a list of voice specific errata that exist in products running AOS version R14.3.0.

■ AOS-43991 When using the SIP proxy with NAT and media anchoring is not enabled, the media port in SDP may improperly be incremented by RTP firewall traversal when the original SDP has not been modified. This can result in a no audio condition. AOS-41155 If a voice trunk is removed while calls are active, a reboot may occur. AOS-37978 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. AOS-31081 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. ■ AOS-28378 The clear sip tls session command does not function. Issuing the command clear voice call active with active MGCP calls may result in a reboot. ■ AOS-24657 AOS-22835 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. AOS-22597 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. AOS-20871 Receiving an initial INVITE with both audio and T.38 SDP will result in the call being placed on hold. AOS-10594 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. ■ AOS-10216 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. ■ AOS-7738 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. ■ AOS-6995 On the Total Access 900e (third generation) and NetVanta 6250, SIP must be enabled in the running configuration whenever MGCP is used for voice. ■ AOS-1136 If an Adtran unit is configured with single call appearance mode, forwarded calls on a PRI trunk will fail. ■ AOS-1120 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. AOS-1115 Echo cancellation is not enabled on three-way calls when using the local conferencing feature. ■ AOS-1036 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. On the NetVanta 6310/6330 Series, if a SIP trunk is trying to register a large number of users and the ■ IA-8850 registration fails, activating debug sip trunk-registration will cause the Telnet and console connection to become unresponsive. A reboot clears the condition.

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## 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 R14.3.0 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 R14.3.0 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://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 R14.3.0 (or earlier), a valid SBC call capacity license is required for SIP B2BUA functionality on the following products:

- NetVanta 3140
- NetVanta 3148/4148
- NetVanta 4660
- NetVanta 5660
- 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 <a href="https://supportcommunity.adtran.com">https://supportcommunity.adtran.com</a>.

# 8. Warranty and Contact Information

Warranty information can be found online by visiting <a href="www.adtran.com/warranty-terms">www.adtran.com/warranty-terms</a>.

To contact Adtran, choose one of the following methods:

Department	Contact Information	
Customer Care	From within the U.S.: From outside the U.S.:	(888) 4ADTRAN ((888)-423-8726) +1 (256) 963-8716
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Training	Email: ADTRAN University:	training@adtran.com www.adtran.com/training
Sales	For pricing and availability:	1 (800) 827-0807