RELEASE NOTES

NetVanta 7000 Series Products
AOS version R10.7.1
October 28, 2013

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ADTRAN Technical Support Community

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Introduction

AOS version R10.7.1 is a maintenance release that also 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 - System Management on page 9*.

A list of new or updated documents for this release appears in *Documentation Updates on page 12*.

Configuration guides, white papers, data sheets, and other documentation can be found in the ADTRAN Support Community, https://supportforums.adtran.com. The contents of these release notes will focus on ADTRAN's IP telephony products.

Supported Platforms

The following platforms are supported in AOS version R10.7.1.

• NetVanta 7100 – IP Communication Platform

• NetVanta 7060 – IP PBX

For a list of the software and firmware requirements, refer to the table in *Minimum Software or Firmware Required for Interoperability on page 5*.

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.

Hardware Requirements and Limitations

In an effort to maximize customer experience, whenever possible and applicable, ADTRAN will advertise the minimum hardware requirements for running the recommended software versions. While ADTRAN strives to support the newer software revisions on existing hardware, due to CPU, RAM, and other hardware limitations, it may not always be possible. In such instances, customers are advised to upgrade the hardware (including phones, NetVanta 7000 Series chassis, and accompanying networking gear) while upgrading their software, because performance issues and erratic behavior could cause certain product features to become nonfunctional. ADTRAN provides field advice whenever possible in these cases. Resellers and customers are advised to periodically check with ADTRAN Technical Support and field staff for these advisories, especially when upgrading to newer software revisions.

NetVanta 7100 Hardware

New features included with any AOS release warrant some attention before use by the customers, specifically the choice of the hardware platform on which the new AOS version will be installed.

There have been two revisions of NetVanta 7100 hardware. These are denoted by different part numbers: 1200796L1 (older) and 1200796E1 (newer). Beginning with AOS release A2.04, ADTRAN does not recommend using newer AOS versions on the older 1200796L1 units. These units continue to be field

worthy and would continue to perform as expected for their useful lifetime on software revisions prior to A2.04. However, due to differences in hardware, some or all of the new features might not be supported on the older hardware (1200796L1).

The 1200796L1 is explicitly NOT recommended for use for the following features or firmware releases:

• For any firmware release R10.x or higher

• Support for greater than 50 users. DSP resources were increased on 1200796E1 units, allowing additional TDM to IP conversions. The user limit on the 1200796L1 remains unchanged.

• SIP trunks that require the NetVanta 7100 to perform transcoding. This conversion is required if the SIP trunk provider does not support G.729.

• Use of the Echo Return Loss (ERL) tool.

While there are no further known constraints for other features at this time, keep updated on any future advisory by ADTRAN. The recommended hardware for the AOS A2.05 and later features is 1200796E1. Contact your ADTRAN representative about the options available to you if you have a 1200796L1 unit, and want to use a newer release.

Software Requirements and Limitations

This section defines the recommended firmware/software versions necessary for the related aspects of the NetVanta Unified Communications solution.

AOS Firmware Image Storage

AOS firmware images can be stored on flash/non-volatile random access memory (NVRAM) as well as on CompactFlash® memory. However, it is recommended that the primary firmware image be stored on flash/NONVOL and the backup firmware be stored on CompactFlash.

To copy the current image from flash/NVRAM to CompactFlash, use the **copy flash** *<filename>* **cflash** *<filename>* command.

Required AOS Bootcode Version

When upgrading to AOS version R10.7.1, an upgrade to bootcode version A2.06.B1.01 is required. Check the table in *Minimum Software or Firmware Required for Interoperability on page 5* to verify you have the required minimum Boot ROM. Contact ADTRAN Technical Support for this bootcode version and instructions for loading it.

Minimum Software or Firmware Required for Interoperability

Product or Phone Model	Minimum Software or Firmware	Minimum Boot ROM
Remote NetVanta 7000 Series (when networking to another 7000 series device)	A4.10 or later	A2.06.B1.01
NetVanta 6355/Total Access 900(e) Series	A2.06 or later	-
NetVanta UC Server (as part of BCS)	UCS 5.0.1	Not applicable
ADTRAN IP 706/IP 712 phones	R2.3.0	2.1.0
Polycom IP 321/IP 331 phones	3.2.7	4.1.2b

Polycom IP 335, IP 450, IP 550/560, IP 650/670, IP 5000, IP 6000, IP 7000 phones	3.2.7	4.1.2b
Legacy Polycom IP 430, IP 501, IP 601, IP 4000 phones	3.1.8	4.1.2b

These files can be downloaded from http://www.adtran.com/support, select **Software Downloads**, and choose the appropriate phone model from the **IP 700 Series**. Contact ADTRAN Post Sales Technical Support at (888) 423-8726 or email: support@adtran.com, if you are unable to download these files.

Important Notices

The following important notices are provided in addition to the previous *Supported Platforms*, *Hardware Requirements and Limitations*, and *Software Requirements and Limitations* sections to ensure successful deployment.

Default Firewall Configuration Changes

Changes were made to the default firewall configuration to increase security of voice platforms when connected to the Internet. These changes can impact remote phones and SIP trunking applications, but do not impact local phones on the NetVanta 7000 Series.

• In AOS versions A2.01.00 through A2.03.00.SC, the default Public access control policy (ACP) allowed SIP traffic (destined for UDP port 5060) inbound. For AOS A2.04.00.SC and above, this traffic is no longer allowed by the factory default configuration. Instead, the installer is required to selectively customize the Public ACP to allow SIP traffic from remote sites and SIP trunking providers.

• Units that were shipped with AOS versions through A2.03.00.SC contain a default configuration that allows inbound SIP traffic (destined for UDP port 5060). These configurations should be modified before deployment. Guidelines for this configuration are given in the *NetVanta 7000 Series Security Guide* available from the ADTRAN Support Community, https://supportforums.adtran.com.

Notice of Defined Voicemail File Limit

The NetVanta 7000 Series products can maintain a maximum of 3000 voicemails per system. The implementation of voicemail message expiration allows the system to remain within the defined limit. Upgrading the CompactFlash card to a larger card is not supported and will not result in more voicemail storage. Should you need to replace a failed CompactFlash card, contact ADTRAN Technical Support for assistance.

Updates to Web Interface Pages

On occasion, changes are made to web pages in the NetVanta 7000 Series web interface that may require files in the browser cache to be purged. This can be done in most browsers by deleting the browsing history or by pressing Ctrl-F5 in most cases.

Considerations Before Upgrading Related to SPRE Code Support for SLA

1. Local SPRE code dialing from an SLA requires phone dial plan changes. After upgrading to R10.6.0 software, newly created phone configurations will have the proper dial plan settings applied. For upgrade cases where SLA was already configured on an existing phone, the dial plans will be modified to support

this new functionality. Please review the changes under the IP Phone configuration page and regenerate the phone configurations by using the admin login and browse to Voice>IP Phone Globals>Default Settings>, select "New and Existing Configurations" and select Apply.
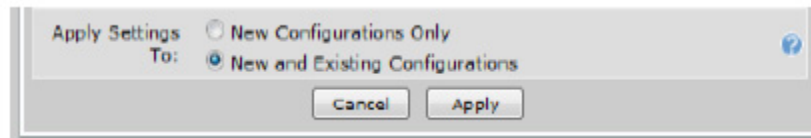
2. SPRE code dialing from an SLA could interfere with existing configurations if SPRE codes were used on SLA's prior to this release. Plese review your configuration to determine if SPRE codes were allowed prior to the upgrade (check SLA dial plans) and if so, you will need to configure the following command **voice spre-mode override <*xx>** using the appropriate codes in place of **xx**.

NetVanta 7100 Security Vulnerability

Summary

This security update resolves privately disclosed vulnerabilities in ADTRAN's NetVanta 7100 that can occur with the 7100 GUI login page. The resolution included code changes to suppress echoing injections. Also addressed was a potential exploit of a SSL renegotiation.

This security update is rated Critical for the NetVanta 7100.

Recommendation

Customers should upgrade to R10.7.1. Go to the [NetVanta 7000 firmware](#) page to download this AOS release.

Known Issues

None

System Notes

This section outlines known caveats for AOS version R10.7.1**.**

- The **match ani** command used for ANI substitution will match on the received ANI prior to any global ANI substitutions. The **match ani** command used for adding or substituting diversion headers will match on the modified ANI after the global ANI substitutions are applied.

- During conferences that use the conference bridge in UC Server, when one member in a conference places the call on hold, music may stream to all members that have joined the conference.

- Caller ID does not display on pickup *52xxxx*.

- The Personal Phone Manager's User Status monitoring list may return the list from the previous user's browser session if more than one user shares the desktop browser.
  The work around is to delete all cookies and restart the browser.

- Calls with caller IDs that contain special characters can be disconnected when placed on hold by an Advatel IP Console.

- Adding a T1/E1 link to an existing Multilink PPP bundle using the GUI causes the PPP link to bounce when applied. The PPP link will go down and immediately recover; however, some packets could be lost. To work around this issue, a T1/E1 can be added using the CLI, and the link will stay up while the addition is applied.

- Calls using the G.729 CODEC are limited to 25 calls for E1 PRI.

- FindMe-FollowMe treats all calls from the auto attendant as internal calls.

- SNOM M3 phones do not support attended transfer at this time. This and other caveats will be documented in a future configuration guide for using the SNOM phones with the NetVanta 7000 Series.

Features and Enhancements
No new features or enhancements were included in this release.

Fixes
This section highlights major bug fixes in AOS version R10.7.1.

- Voicemail Operator Assist on a ring group dialed 0 even if it was configured with a different value

- Creating a new phone configuration resulted in an inapplicable sync dialog.

- A SIP trunk configured to replace the diversion header does not correctly replace the most recent diversion header when multiple diversion headers are present.

- The GUI IP Phone Configs Update Directories command only merged the first 21 system directory entries.

- If the Primary System Configuration file had been changed, the "factory-default" command would not restore the file to the default startup-config

- Leaking of replication slots resulted in slot failure which caused paging, call parking, and MoH to fail.

- Manually editing phone configuration files resulted in the phones disappearing from the IP Phone Configs GUI menu.

- Paging group calls originating from ADTRAN IP7XX phones had no audio.

- Forwarded voicemail messages reported a date one month previous to the actual message.

- Incoming SIP trunk calls which were locally transferred would stop remote ringback during any subsequent coverage.

- The NetVanta 7100 locked up and rebooted when attempting call transfers during heavy call loads.

- The Python backup script for the NetVanta 7100 did not inform users that HTTP must be enabled.

- Hot desking configuration files only supported the use of the default VLAN 2 IP address, 10.10.20.1.

- TFTP client connections caused memory to be lost which could not be recovered.

- Attempting to use a pickup group to pick up a call queue resulted in the call being dropped.

- When an external call was transferred to an internal extension with coverage for an external number, a diversion header was not present when the call was routed back out to reach the external number.

- An inbound ring group call that was cleared too quickly resulted in a reboot.

- Disabling Local Emergency Services in the dial plan caused the NetVanta 7100 to cease stripping the steering digit (9) from the dial string. As a result, the call did not match a grouped trunk.

- Frequent parking and retrieval of calls caused the switchboard to be unable to find a target for call routing and caused the unit to reboot.

- When Music-On-Hold was set to external, Polycom IP phones were not able to blind transfer a call.

- ADTRAN/Polycom phones running a 3.3.x version firmware would not load the idle display logo image.

- An incoming call from an ISDN trunk that was parked and then retrieved by an extension logged into a call queue had no audio.

- The SMTP messages sent for voicemail notification were rejected due to a missing carriage return.

Errata - System Management

The following is a list of System Management errata that still exist in AOS version R10.7.1**.**

- The NetVanta 7100 and NetVanta 6355 platforms will fail to reset QoS map statistics for applied QoS maps when the **clear counters** command is executed.

- When adding a new user account, the GUI may incorrectly display an FXS port as available when it is already assigned.

- The CLI command, **no description**, cannot be used to remove a description from a ring group configuration.

- If an attempt is made to configure greater than the maximum number of call queues, an error will be shown. Following this error, no call queue configuration commands can be entered until the configuration mode is exited.

- When trying to apply a user account change in IE9, a database error is presented. Workaround: Use Ctrl+F5 to clear the IE browser cache or use an alternate web browser.

- The Startup Wizard does not present an error message if an invalid VLAN ID is entered when configuring the Data and Voice VLAN tags.

- An HTTP timeout does not output the correct string in the CLI. Instead a **%s** is substituted.

- If Change Language is selected as the Collect Digits action in an Auto Attendant, no option to set the desired language appears.

- After upgrading from A4.X or A5.X to R10.2 or later the GUI does not highlight Polycom IP 550/560 phones to indicate the phone configuration requires updated.

- When creating a new user in the GUI, DID numbers and aliases are not saved if the Edit Config button is pressed followed by the Apply button.

- When using the GUI to configure voicemail notification for a user, the times midnight and noon are mistakenly swapped.

- Inserting a CompactFlash card into the device while it is powered results in a reboot.

- 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.

- 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. Also, when the cursor hovers over a data point, it displays multiple instances of the same data.

- After a pickup group has been created, the pickup extension and description cannot be modified.

- Adding a description to a status group on the status groups GUI menu can result in a 503 Service Unavailable response.

- The GUI incorrectly states that System Mode coverage can be set to Busy, when in actuality it would use the Default Mode coverage.

- The System Summary GUI menu is not displayed when the NetVanta 7100 is running NetVanta 6355 firmware.

- The platform displays as **unknown** in the GUI when the NetVanta 7100 is running NetVanta 6355 firmware.

- Auto-link client traffic may negatively impact performance because it is not being discarded under heavy call volume.

- When configuring the CODEC Group setting for a SIP trunk in the GUI, if **<default> (G.711 uLaw)** is selected, the output of a **show run** in the CLI will show **no codec-group** is configured.

- When using Internet Explorer, the Apply button on the Voice > IP Phone Globals > Default Settings tab will not function. **Workaround:** Use Firefox, Chrome, or Safari to apply changes on this GUI page.

Errata - Call Control

The following is a list of Call Control errata that still exist in AOS version R10.7.1

- Inbound calls from Megapath (Broadsoft) SIP trunks fail to be delivered by FindMe-FollowMe to external numbers. Calls roll to next Call Coverage item after being answered at the external number. **Workaround:** Enable Ringback Only and disable the Accept option in the FindMe-FollowMe configuration for the call to external party to be successful.

- Caller ID may not be correctly sent when an SLA/SCA call is transferred to an extension.

- Successive reINVITE SIP messages to place a call on hold will be rejected with a 400 Bad Request response if incoming music-on-hold is enabled on the SIP trunk.

- transport=TCP is incorrectly included in the Contact header on a UDP SIP trunk.

- SLA accept/reject templates do not affect calls sent using the SLA.

- Call coverage set to internal will still allow calls to be routed out an external trunk.

- Single Number Reach can fail to detect fax tones from certain fax machine models.

- FindMe-FollowMe fails with Single Number Reach service in NetVanta BCS.

- When a voice user is configured for an empty caller ID number, the name is also not transmitted.

- Configuring a user to have Dialtone Only message waiting does not result in a SIP NOTIFY message to the SIP endpoints when a new message is waiting.

- When using FindMe-FollowMe on a NetVanta 7100, internal forwards to voicemail will function properly. Voicemails that are forwarded to an external server will not function. When Ringback Only is disabled, only the **Refer the Call** FindMe-FollowMe action can be used to direct the inbound call to a voice mailbox not located on that NetVanta 7100.

- When configuring call coverage, setting the Ring Extension to Never results in a three-second delay delivering voice traffic to the ADTRAN phone.

- Inbound calls are not correctly routed to a SIP identity when configured on an auto attendant.

- Intermittent inbound calls on SLA lines ring indefinitely without the switchboard routing the call. Workaround: Enable blind-dial for each analog trunk account.

• T.38 fax call tests fail after T1 PRI loss and system timing shifts. **Workaround:** A reboot is required to clear the condition.

Errata - Audio

The following is a list of Audio errata that still exist in AOS version R10.7.1

• Held Call Pickup (*78nnnn) may not have audio if the user who placed the call on hold is configured as a simple remote phone.

• A received SLA call that is answered and then attended transferred to a remote party will have one-way audio.

• An external call from an analog phone may result in choppy hold music when placed on hold by the analog phone.

• Extended coverage paths may cause transcoding to fail with a SIP trunk.

• If a Simple Remote Phone calls a user with FindMe-FollowMe configured as **ringback only**, **ring external**, and **press to accept**, the remote phone user will not hear audio. **Workaround:** Disable **ringback-only** in the FindMe-FollowMe configuration for the called user.

• Systems with greater than 16 simultaneous G.729 encoded SIP calls to a PRI trunk can experience voice quality degradation. **Workaround:** ADTRAN recommends that customers who require greater than 16 simultaneous SIP to PRI trunk calls configure the system to use G.711 encoding which is not affected.

• Hairpinned calls may fail to have audio after being transferred.

• When local packet capture completes and while it is being exported, voice quality may be adversely affected.

• During an internal SIP-to-SIP call, if the caller places the called party on hold, then the called party places the caller on hold, when the caller retrieves the called party from hold both parties will experience no audio.

• If a SIP is extension is blind transferred out an analog FXO trunk, noise is sometimes introduced in the audio.

• A call placed to a remote user that that uses G.711 Ulaw or G.711 Alaw will result in one-way audio if the call is routed out a trunk that contains a CODEC list.

Errata - Interface

The following is a list of Interface errata that still exist in AOS version R10.7.1

• If the USB ID is changed or removed, it is still possible to connect a call using the cellular interface.

• When using a NetVanta Quad FXS VIM and the second generation NetVanta Dual T1 NIM in a NetVanta 6355 or NetVanta 7000 Series unit, the second T1 in a MLPPP bundle will experience TDM group errors.

• An E&M Wink trunk does not correctly send dialed digits.

Errata - Endpoint

The following is a list of Endpoint errata that still exist in AOS version R10.7.1

• Bria soft phones registered through the SIP security port always show up in the Suspect list.

- A user account already registered (with a static registration or through the hot desk feature) to an IP phone may log into another hot desk phone. This causes the new hot desk phone to become the *active* phone for that user account. The original IP phone is no longer registered to that user account.

Errata - Data

The following is a list of Data errata that still exist in AOS version R10.7.1

- When Port Authentication is enabled on an AOS device, unauthorized traffic is still allowed to pass.

- If **ip mcast-stub fixed** is removed from an interface configuration which also has an IGMP static group configured, the mroute will not be deleted as it should. This only occurs when static groups are configured. It does not occur with dynamically learned groups.

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. Firmware upgrades are available on the *Support/Software Downloads* section of the ADTRAN website at http://www.adtran.com.

Documentation Updates

The following documents were updated or newly released for AOS version R10.7.1 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*