

# **RELEASE NOTES**

NetVanta 7000 Series Products AOS version R11.2.0 June 2, 2014

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## Introduction

AOS version R11.2.0 is a feature 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 10*.

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, <u>https://supportforums.adtran.com</u>. The contents of these release notes will focus on ADTRAN's IP telephony products.

# **Supported Platforms**

The following platforms are supported in AOS version R11.2.0.

- 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 6.* 

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.

## **IP Phone Models**

Beginning with release A4.x, the legacy Polycom phones (IP 430, IP 501, IP 601 and IP 4000) do not support all the features available in the current AOS and phone firmware releases. Customers could experience sluggish behavior on these older generation phones when used in conjunction with newer software releases. If you experience sluggish behavior after an upgrade, contact ADTRAN Technical Support for a solution. This could involve either upgrading the phone hardware (to the equivalent newer generation phone, such as IP 450, IP 550, IP 650, or IP 6000) or scaling back the feature load on the legacy phones.

ADTRAN branded VVX phones (model names ADTRAN VVX 300, ADTRAN VVX 310, ADTRAN VVX 400, ADTRAN VVX 410, ADTRAN VVX 500, and ADTRAN VVX 600) work with NetVanta 7000 series AOS release version R10.8.0 and beyond without requiring an additional license key purchase. The equivalent Polycom branded phones will not work with release R10.8.0. If you are currently using the equivalent Polycom branded phones with the NetVanta 7000 series, you will need to either remain on a pre-R10.8 release version or use the ADTRAN branded version of the VVX phones until a licensing mechanism can be added to allow the use of Polycom branded VVX models.

The rest of the Polycom family of supported IP end points continue to remain unaffected. Either an ADTRAN branded model or the equivalent Polycom branded models of these IP phones can be used with R10.8 and beyond. See the following table to determine AOS release R10.8 compatibility with ADTRAN and Polycom branded phone models.

Model	Part #	Compatibility with AOS Release R10.8 and Beyond
ADTRAN VVX 300	1200853G1	Yes
ADTRAN VVX 310	1200853G1#GB	Yes
ADTRAN VVX 400	1200854G1	Yes
ADTRAN VVX 410	1200854G1#GB	Yes

 Table 1. Release R10.8 Phone Compatibility

ADTRAN VVX 500	1202856G1	Yes
ADTRAN VVX 600	1200856G1	Yes
Polycom branded VVX 300, 310, 400, 410, 500, and 600	Multiple	No. R10.7 is the last supported AOS version for these phones.
ADTRAN branded and equivalent Polycom branded SoundPoint IP 321, 331, 335, 450, 550, 560, and 670	Multiple	Yes. There are no restrictions when using these models.
ADTRAN branded and equivalent Polycom branded SoundStation IP 5000, 6000, and 7000.	Multiple	Yes. There are no restrictions when using these models.

## **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<sup>®</sup> 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 R11.2.0, an upgrade to bootcode version A2.06.B1.01 is required. Check the table in *Minimum Software or Firmware Required for Interoperability on page 6* 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	3.1.8	4.1.2b
phones		

These files can be downloaded from <u>http://www.adtran.com/support</u>, 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.

## Upgrades to AOS version R10.8.0 and Later

Beginning with AOS version R10.8.0, the syntax of certain commands was modified from previous AOS versions (such as AOS R10.5.x, R10.7.x) 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 NetVanta 7000 Series product configured in AOS version R10.8.0 or higher to a previous AOS version (such as AOS R10.5.x, R10.7.x), 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 R10.8.0 or later will not cause service disruption because both the old and the new syntaxes are accepted. It is recommended that a full copy (data and voice settings) of the configuration be saved prior to upgrading to AOS R10.8.0 and above. This can be done from the Utilities > Configuration page in the GUI.

For more information on specific commands, refer to the <u>AOS Command Reference Guide</u> available at <u>https://supportforums.adtran.com</u>.

Please note that the NetVanta 7000 series does not support IPv6 at this time. If you envision needing any IPv6 features natively on the NetVanta 7000 series, then contact your ADTRAN representative with your request. In general, we recommend using an IPv6 capable ADTRAN router with the NetVanta 7000 series for any IPv6 features.

#### 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.

Apply Settings To:	<ul> <li>New Configurations Only</li> <li>New and Existing Configurations</li> </ul>	6
	Cancel 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**.

# **System Notes**

This section outlines known caveats for AOS version R11.2.0.

- Inserting a CompactFlash card into the device while it is powered on will result in a reboot.
- Polycom 450 configuration files for versions prior to R10 are not correctly updated when changing firmware versions.
- 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.
- The Configuration Successfully Saved dialog box does not appear when saving the configuration from the System Summary GUI menu.
- 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 workaround 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.

• On the IP Phone Configs page, the list of Associated Accounts for each phone is displayed in numerical order rather than the order configured on the phone keys. The accounts are displayed in the correct order when editing a phone.

## **Fixes**

#### This section highlights major bug fixes in AOS version R11.2.0.

- The AOS unit could reboot when placing a call on hold.
- It was not possible to configure **ip rtp udp** with a range that included UDP ports 63018 and 63019.
- If Spanning Tree was unable to allocate a packet for transmit, a reboot could occur.
- If the trunk through which a voice user registers was deleted from the configuration, that user would still be displayed in the output of **show sip trunk-registration**.
- When creating a new user in the GUI, DID numbers and aliases were not saved if the Edit Config button was pressed followed by the Apply button.
- When a user account was deleted it could not be removed from the Polycom phone's global directory.
- The VVX phone models would not suppress missed calls received on a shared line.
- Incoming SIP trunk calls which were locally transferred would stop remote ringback during coverage.
- When the French Canadian language setting was configured in the GUI, the navigation links on the GUI would not load properly.
- Stopping a DSP capture resulted in a reboot of the device.
- If a call using a 3.1 kHz audio bearer capability was received on a PRI, the AOS unit would not wait for the calling party name to be sent in a FACILITY message after being instructed to do so in the SETUP message.
- When configuring Call Queues via the CLI, attempts to configure greater than the maximum number of queues would result an error.
- After running the installation wizard on R10.11.0, the NetVanta 7100 could not be logged into using SSH.
- If **no notify-ringing** was set for a status group, a NOTIFY message would still be sent when call queue members were receiving a call.
- The CLI command **no description** could not be used to remove a description from a ring group configuration.
- Editing a SIP trunk which was configured for TCP in the GUI would change the transport to UDP.
- In certain scenarios, external calls going to voicemailacct would not generate an SMDR log indicating the call had ended.
- If an assisted transfer was performed to a virtual user with coverage configured to an external number that began with the Trunk Access Code digit, the system would incorrectly strip two digits before routing the call.
- GUI pages would not correctly load when TCP port 556 was used for the connection to the HTTP server.
- After a system reboot, dynamically added SIP registrations would be lost and could not be added back immediately.
- The NetVanta 7100 interprets each ring as a new call when the system country is set to United Arab Emirates.
- E&M Wink trunk did not correctly send dialed digits.

• The GUI would incorrectly state that System Mode coverage would go to Busy, when in actuality it would use the Default mode coverage.

# Errata - System Management

The following is a list of System Management errata that still exist in AOS version R11.2.0.

- If an IP address is not configured on ETH 0/0, the DHCP client cannot be enabled through the GUI. **Workaround:** Use the CLI to enable the DHCP client on ETH 0/0.
- 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.
- The Email Action on the VM Settings tab for operator or ring groups cannot be set in the GUI.
- When a description is configured on an FXO interface, the information dialog boxes for the progress of the ERL tool do not function correctly even though the ERL tool runs successfully.
- When viewing the call queue Membership Status in the Personal Phone Manager, the call queue sorting order is reset after updating or auto-refreshing the GUI page.
- When using Internet Explorer 9 or earlier, the **Apply** button on the **Voice > IP Phone Globals > Default Settings** tab will not function. **Workaround:** Use Internet Explorer 10, Firefox, Chrome, or Safari to apply changes on this GUI menu.
- When a simple remote phone user calls their voice mailbox, they will always be asked for a mailbox number even if it has been configured for password only.
- The Shared Line Accounts GUI menu incorrectly displays a configuration option for Codec Outbound Group. This is not a valid configuration option.
- Auto-link client traffic may negatively impact performance because it is not being discarded under heavy call volume.

# Errata - Call Control

#### The following is a list of Call Control errata that still exist in AOS version R11.2.0

- 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.
- 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.
- Call coverage set to internal will still allow calls to be routed out an external trunk.
- Caller ID may not be correctly sent when an SLA/SCA call is transferred to an extension.
- transport=TCP is incorrectly included in the Contact header on a UDP SIP trunk.
- 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.
- When configuring call coverage, setting the Ring Extension to Never results in a three-second delay delivering voice traffic to the ADTRAN phone.
- SLA accept/reject templates do not affect calls sent using the SLA.

- Users are able to bypass Forced Account Codes by dialing the external number without the trunk access code. **Workaround:** Add a dial plan entry on the system for 7- or 10-digit external numbers without the trunk access code (for example, NXX-NXX-XXXX).
- An assisted transfer over a SIP trunk to a call queue results in a disconnect. Workaround: Configure **transfer-mode network** on the SIP trunk.
- 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 R11.2.0

- An external call from an analog phone may result in choppy hold music when placed on hold by the analog phone.
- A received SLA call that is answered and then attended transferred to a remote party will have one-way audio.
- 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.
- 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. **Workaround:** Remove the codec-list from the SIP trunk account for the audio to work correctly.

# Errata - Endpoint

#### The following is a list of Endpoint errata that still exist in AOS version R11.2.0

- 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.
- Bria soft phones registered through a SIP security port always display in the Suspect list.

## Errata - Data

#### The following is a list of Data errata that still exist in AOS version R11.2.0

• A hostname entry in an ACL can fail to resolve to the correct IP address even though the router's host table reflects the correct IP address. **Workaround:** Use IP addresses instead of a hostname when creating an ACL.

# **Upgrade Instructions**

Upgrading ADTRAN products to the latest version of AOS firmware is explained in detail in the configuration guide <u>Upgrading Firmware in AOS</u>, available at <u>https://supportforums.adtran.com</u>. Firmware upgrades are available on the <u>Support/Software Downloads</u> section of the ADTRAN website at <u>http://www.adtran.com</u>.

# **Documentation Updates**

The following documents were updated or newly released for AOS version R11.2.0 or later specifically for the AOS products. These documents can be found on ADTRAN's Support Forum available at <u>https://supportforums.adtran.com</u>. You can select the hyperlink below to be immediately redirected to the document.

- AOS Command Reference Guide
- Configuring Hardware ACLs in AOS
- Configuring Network Monitor in AOS
- Configuring Network Quality Monitoring in AOS