RELEASE NOTES

NetVanta 7000 Series Products
AOS version R10.8.0
May 13, 2013

Trademarks

Any brand names and product names included in this manual are trademarks, registered trademarks, or trade names of their respective holders.

To the Holder of the Manual

The contents of this manual are current as of the date of publication. ADTRAN reserves the right to change the contents without prior notice.

In no event will ADTRAN be liable for any special, incidental, or consequential damages or for commercial losses even if ADTRAN has been advised thereof as a result of issue of this publication.

Toll Fraud Liability

Be advised that certain security risks are inherent in the use of any telecommunications or networking equipment, including but not limited to, toll fraud, Denial of Service (DoS) attacks, loss or theft of data, and the unauthorized or illegal use of said equipment. ADTRAN OFFERS NO WARRANTIES, EITHER

EXPRESSED OR IMPLIED, REGARDING THE PREVENTION, DETECTION, OR DETERRENCE OF TOLL FRAUD, NETWORKING ATTACKS, OR UNAUTHORIZED, ILLEGAL, OR IMPROPER USE OF ADTRAN EQUIPMENT OR SOFTWARE. THEREFORE, ADTRAN IS NOT LIABLE FOR ANY LOSSES OR DAMAGES RESULTING FROM SUCH FRAUD, ATTACK, OR IMPROPER USE, INCLUDING, BUT NOT LIMITED TO, HUMAN AND DATA PRIVACY, INTELLECTUAL PROPERTY, MATERIAL ASSETS, FINANCIAL RESOURCES, LABOR AND LEGAL COSTS. Ultimately, the responsibility for securing your telecommunication and networking equipment rests with you, and you are encouraged to review documentation regarding available security measures, their configuration and implementation, and to test such features as is necessary for your network.

ADTRAN Technical Support Community

For information on installing and configuring ADTRAN products, visit the ADTRAN Support Community, https://supportforums.adtran.com.

Pre-Sales Technical Support
(888) 423-8726
application.engineer@adtran.com

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

Post-Sales Technical Support
(888) 423-8726
support@adtran.com

Contents

Introduction

AOS version R10.8.0 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 12*.

A list of new or updated documents for this release appears in *Documentation Updates on page 15*.

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 R10.8.0.

- 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 Summary 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.

Table 1. Release R10.8 Phone Compatibility

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

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® 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 R10.8.0, an upgrade to bootcode version A2.06.B1.01 is required. Check the table in *Minimum Software or Firmware Summary 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 Summary

Product or Phone Model	Minimum Software or Firmware	Minimum Boot ROM
NetVanta 7000 Series	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.

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 *AOS Command Reference Guide* available at https://supportforums.adtran.com.

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.

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

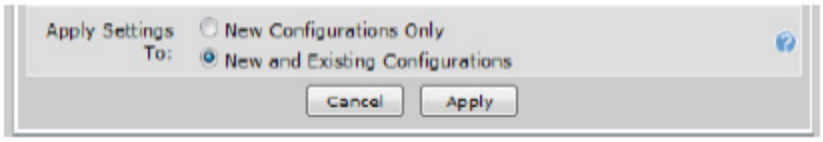
The NetVanta 7000 Series products can maintain a maximum of 3000 voicemails per system. The implementation of voicemail message expiration allows the system to remain within the defined limit. Upgrading the CompactFlash card to a larger card is not supported and will not result in more voicemail storage. 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**.

System Notes

This section outlines known caveats for AOS version R10.8.0.

- 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

This section highlights the major features, commands, and behavioral changes for AOS version R10.8.0

Restrict or limit the use of non ADTRAN branded phones (VVX3x0 and VVX4x0) with the NetVanta 7000 series.

Beginning with release R10.8.0, a distinction is being made in the support for the VVX models with the NetVanta 7000 Series IP PBX line. From this release forward, only ADTRAN branded VVX model phones (VVX 300, VVX 310, VVX 400, and VVX 410) will be configurable and interoperable with the NetVanta 7000 Series, but the equivalent Polycom branded models for those phones will not. If there is a need to use a Polycom branded VVX series business media phone, not sourced through ADTRAN, AOS feature release R10.7.x must be used. This distinction is being made only for VVX series phones. All of other supported models in the Polycom Sound Station and Polycom Sound Point IP end point lines (IP 321, IP 331, IP 335, IP 450, IP 550, IP 560, IP 650, IP 670, IP 5000, IP 6000, and IP 7000), will continue to function as before, irrespective of where they were sourced and whether they are ADTRAN branded.

Support cloud based email services such as Gmail, Yahoo, or Hotmail.

The Voicemails to Emails email delivery method has been added to safely and securely delivery of voicemails to an online cloud-based email provider. The NetVanta 7000 Series
supported SMTP-based email delivery in the past, but this new enhancement builds on SMTP and supports TLS-based security.

Benefits
- Provides the best of both premises-based voice and cloud-based UC features
- No need for dedicated email servers
- Encrypted, secure, and robust delivery, reducing response time to voicemails

Configuration
- No additional configuration is required. The system will begin using SMTP and if a TLS request comes from the server, it will automatically transition to TLS.

Forwarding options based on extension state (Busy, No answer, DND).

Call Forwarding on Busy and Call Forwarding No Answer have been added to the existing Call Forwarding Always forwarding option. The new options are evaluated at the same call processing time; prior to the call going to call coverage. Users can configure more than one call forwarding option at a time, with Call Forwarding Always taking precedence.

Benefits
- Usage parity for businesses migrating from traditional systems
- Helps with business use cases where the original called party wants the voicemail to be left in the voice mailbox of the forwarded-to-party1

Configuration
- Admin GUI – Forwarding options can be configured on the Current Settings tab for each user.
- Personal Phone Manager GUI – Forwarding options can be configured on the Phone Settings tab for each user.

GUI Support for FXO Auto Impedance Tool.

An FXO (analog) trunk's line quality is affected by many factors, including the distance from the CO and interference. The NetVanta 7000 Series now provides a GUI tool to
automatically set the impedance values of those trunks for the best possible line quality.

Benefits
- Prevents echo and low volume issues
- Leads to customer satisfaction
- Quicker installation resulting in less time required on site

Configuration
- Installation Wizard – Users will be prompted to execute the auto impedance tool if they select analog trunks as part of the system setup.
- Admin GUI – Impedance is configured on the Physical Interfaces menu.

Ability to easily reconfigure and even remove the need to dial trunk access digit (eg 9) for outbound calls.

The steering digit for trunk access can now be easily set to any value, 0 through 9, or none. ADTRAN recommends setting the steering digit once from the installation wizard so that other system dependencies, such as phone configuration dial plans, will be created with the correct options. If changing from the Admin GUI after a system has been installed, several areas of the configuration must be verified to contain the correct steering digit information (listed below).

Benefits
- New system installations will function like the previous system resulting in no learning curve for employee
- Prevents misdialed 911 calls, which can happen frequently when the steering digit is set to 9
- Useful for countries where 9 is not considered the default trunk steering digit

Configuration
- Installation Wizard – Recommended for new installations
- Admin GUI – For existing installations; located under the Voice > Dial Plan > Dial Plan Parameters section

NOTE: The following must be considered if the steering digit on a previously installed system is to be changed. The Administrator should review and confirm the correct steering digit is configured in each of these areas.
• User account call forwarding
• User account external call coverage
• User account FindMe-FollowMe refer actions
• Ring group external call coverage
• Operator group external call coverage
• SIP trunk account outbound **match ani [add/replace] [diversion/p-asserted-identity]** commands
• ISDN/SIP trunk account outbound **match ani substitute** commands
• ISDN/SIP/analog trunk account outbound **match dnis [substitute/replace] ani** commands
• Shared line account external call coverage
• Shared call appearance external call coverage
• Voicemail session: returning a call to the sender of a message
• Auto attendant transfers to external numbers
• Recording prompt studio audio prompts from an external number
• Auto attendant dial-by-name directory entries
• Status group member external dial strings
• Class of service advanced permit templates
• Class of service advanced deny templates
• System dial plan templates
• External global call coverage lists
• Global inbound **match ani substitute** commands

Fixes

This section highlights major bug fixes in AOS version R10.8.0.

- When Port Authentication was enabled on the device, unauthorized traffic was still allowed to pass.
- The GUI would not show speed dial buttons correctly if the user account was logged into a Hot-desk VVX 500 phone.
- If Voicemail Operator Assist was configured on a ring group, the unit would dial 0 even if it was configured with a different value.
- In IE9 when attempting to apply a user account change, a database error was presented until the browser cache was cleared.
- Analog phones that were a member of a ring group would have no audio on calls made to the ring group.
- Single Number Reach failed to detect fax tones from certain fax machine models.
- When using FindMe-FollowMe on a NetVanta 7100, internal forwards to voicemail would function properly. Voicemails that were forwarded to an external server would not function. When Ringback Only was disabled, only the Refer the Call FindMe-FollowMe action could be used to direct the inbound call to a voice mailbox that did not reside on the NetVanta 7100.
- When frequent park/retrieve is used a rare condition may occur that the Switchboard is unable to find a target for call routing. This may cause a reboot.
- ADTRAN/Polycom phones running a 3.3.x version of 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.
- SMTP messages sent for voicemail notification were rejected due to a missing carriage return.
- Modem/Fax tones were not properly detected on calls from a SIP to an FXO trunk.

Errata - System Management

The following is a list of System Management errata that still exist in AOS version R10.8.0.

- 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.
- 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.
- 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.
- Forwarded voicemail messages may report a date one month prior to the actual message.
- Adding a description to a status group on the Status Groups menu of the GUI may result in a 503 Service Unavailable response.

- The **factory default** command writes default values to the startup configuration, but it does not ensure that the current boot configuration is reset to the startup configuration.
- 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.
- Creating a new phone configuration results in an inapplicable sync dialog.
- The GUI incorrectly states that System Mode coverage could go to Busy, when in actuality it would use the Default Mode coverage.
- Inserting a CompactFlash card into the device while it is powered on results in reboot.
- After a pickup group has been created, the pickup extension and description cannot be modified.
- 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 R10.8.0

- 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.
- Inbound SIP calls fail when **max-number-calls** command is set. **Workaround:** Disable the **max-number-calls** option in the SIP trunk configuration for inbound SIP calls to function correctly.
- 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.
- 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 configuring call coverage, setting the Ring Extension to Never results in a three-second delay delivering voice traffic to the ADTRAN phone.
- Transferring a call from an external SIP trunk back out the same trunk via an auto attendant action results in a failure to populate the SDP portion of the SIP message in either the INVITE or the ACK message. **Workaround:** Set the **transfer-mode** to **network** on the SIP trunk for this call flow to be successful.
- 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 R10.8.0

- 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.
- If a Simple Remote Phone calls a user that has FindMe-FollowMe coverage enabled 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 may 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.
- Voice quality can be degraded when all 23 channels on a PRI are in use.
- 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 R10.8.0

- 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 a second generation NetVanta Dual T1 NIM in a NetVanta 6355 or NetVanta 7000 Series unit, the second T1 in a MLPPP bundle will receive TDM group errors.

Errata - Endpoint

The following is a list of Endpoint errata that still exist in AOS version R10.8.0

- 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.

- If a Hot-Desk phone is logged in to an extension and the User Account configuration for that extension is modified, the phone may cyclically reboot if the phone is power-cycled, reset, or the option Update Configuration is used to update the phone with the new User Account configuration. **Workaround:** To avoid this happening, log out of the extension and then log back in. At this point, the new configuration settings will be applied correctly by the Hot-Desk phone. If a phone does begin to cyclically reboot because of this, the user can press the Log Out key and then the Yes key (when they are displayed on the screen) and then log back into the extension.
- For Polycom phones running 4.x.x firmware, the User ID field on the login screen is in abc/ASCII encoding mode by default. **Workaround:** Press Encoding and then select 4 to change to numeric mode.

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 R10.8.0 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*
- *Configuring Shared Line Appearances for Analog Trunks and Configuring Shared Call Appearances*
- *Configuring Simple Remote Phones for the NetVanta 7000 Series*
- *Configuring Hot Desking for the NetVanta 7000 Series*
- *Managing IP Phones for the NetVanta 7000 Series*
- *Configuring IPv4 Multi-VRF in AOS*
- *Cable Diagnostics Troubleshooting Guide*
- *Configuring IPv4 VRRPv2 in AOS*
- *Configuring Packet Capture in AOS*
- *Configuring VQM Reporter for MSP*
- *Configuring Auto-Link for MSP*
- *NetVanta 160/161 Wireless Access Point HIG*
- *NetVanta USB WWAN NIM Quick Start Guide*

