



The Network Access Company

Corporate Office

Adtran, Inc.
901 Explorer Boulevard
Huntsville, AL 35806

U.S. Mail

P.O. Box 140000
Huntsville, AL 35814-4000

General Information

800 9ADTRAN
info@adtran.com
www.adtran.com

**Pre-Sales
Technical Support**

800 615-1176
application.engineer@adtran.com
www.adtran.com/support

**Post-Sales
Technical Support**

888 423-8726
support@adtran.com
www.adtran.com/support

ACES Help Desk

888 874-ACES
aces@adtran.com
www.adtran.com/support

Release Notes NetVanta 7000 Series Products

AOS Release A2.02.00
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Purpose

AOS Release A2.02.00 provides enhancements and addresses several field issues.

Release A2.02.00 completed a Controlled Release period on December 15th, 2008. It is now released as Generally Available AOS. It has been subjected to both Design Verification and Product Qualification testing as well as completed field beta testing in both supervised and unsupervised capacity. Results obtained during this testing have been evaluated and the code has been determined to be ready for General Availability Release. Issues discovered during testing but not addressed in this build are listed as Errata in [Appendix A](#).

Stage	Status	Update Date
Internal and Field Evaluation	Completed	11/4/2008
Controlled Release	Completed	12/15/2008
General Release	Available	12/15/2008

A listing of available documents for this release appears in [Appendix B](#). Further configuration guides, white papers, data sheets, and other documentation may be found in ADTRAN's Knowledgebase, <http://kb.adtran.com>.

Important Notices

Notice of Defined Voicemail File Limit

The NetVanta 7000 Series products can maintain a maximum of 1500 voicemails per system. The implementation of voicemail message expiration will allow the system to remain within the defined limit.

Recommended AOS Image location(s)

AOS images can be stored on FLASH/NONVOL as well as on CFLASH. However, it is recommended that the Primary AOS image be stored on FLASH/NONVOL and the backup image be stored on CFLASH. One reason for this is that as of AOS A2.01.00, there will no longer be enough space on FLASH/NONVOL to store 2 versions of A2.xx.xx. To copy the current image from FLASH/NONVOL to CFLASH, use the command “copy flash <filename> cflash <filename>”.

Required ADTRAN IP 700 Series Phone Firmware

For this AOS Version, IP 700 Series Phone firmware version 1.3.3 or above is required. Version 1.3.7 is now released to address issues found in the field and is available for download at <http://www.adtran.com/support> by selecting IP Phones and Stations and then IP 700 Series Phones.

Required Polycom Phone Firmware

For this AOS version, it is necessary that your phones are running Polycom SIP version 2.1.2 for proper operation with the NetVanta 7000 Series Products.

Use the following links to access the latest Phone Firmware.

- **Polycom application version 2.1.2 and bootrom version 3.2.3 -**
<http://kb.adtran.com/PolycomFirmware212/Version2.1.2.zip>
 - **This zip file contains: sip.ld, sip.cfg, and bootrom.ld**
 - **All files are necessary to upgrade the phones**

These files can also be downloaded by going to <http://www.adtran.com/support>, selecting IP Phones and Stations and then ADTRAN Branded Polycom phones. Contact ADTRAN Post Sales Technical Support if you are unable to download these files.

Default Configuration/Operation Changes

The following configuration items have had their default value changed

AOS Changes

- “media-gateway ip primary” : added to default configuration for “interface ethernet 0/0”
- The command “voice transfer unattended” has been removed. All unattended transfers will be treated as blind transfers.

Summary of New Features

This section highlights the major features, commands and behavioral changes for AOS A2.02.00.

SIP Trunking

AOS release A2.01.00 mandated the use of the G.729 codec for access to Auto Attendant and Voicemail over inbound SIP Trunks. G.729 was required to be an available and preferred codec offered in the SDP from the far end IP device. Failure to negotiate the G.729 codec would lead to call termination procedures as governed by the SIP and SDP protocols. AOS A2.02.00 now supports calls using the G.711 and G.729 codecs to the Auto Attendant and Voicemail over inbound SIP trunks.

SIP Networking

AOS A2.01.00 held the restriction that calls could not be transferred between sites via users or the Auto Attendant. That restriction is now removed with AOS A2.02.00.

Remote User Accounts in Local Ring Groups

If remote User Accounts in local Ring Groups are desired then it can be configured via the CLI. If the remote User Account's phone is forwarded or on Do Not Disturb, the call to the Ring Group will follow the Call Coverage of that remote User Account immediately instead of the local Ring Group Call Coverage.

An alternative configuration, to avoid this behavior would involve configuring a remote Ring Group with the remote User Account as a member and removing all configured Call Coverage from the remote Ring Group. Other remote User Accounts could be added to the new remote Ring Group as well.

The following Supported and Unsupported Feature lists still apply in AOS A2.02.00.

Supported Features

- Site to Site Dialing (toll bypass).
- Access remote trunks (toll saver).
- Hands-free Auto Answer Intercom between sites.
- Remote Paging via Overhead Paging port.

Unsupported Features

- Status Groups to monitor remote users.
- Transferring voicemails between networked sites using the NetVanta 7000 Series.

Automated ERL Tool

- In AOS A1.02.00 a new debug was added to analyze analog lines connected to FXO ports. This capability has been expanded into an automated tool. This automated tool has only completed basic internal testing and is currently considered a beta feature. It will be fully tested and approved for field use by the next AOS release. The details of the tool and debug command are outlined in the **NetVanta 7000 Series Echo Return Loss Measurement Guide** - <http://kb.adtran.com/article.asp?article=2345&p=2>

Note that this command is only available on NetVanta 7060 and NetVanta 7100 units with the most recent DSP hardware and part number 1200796E1. The process to determine which DSP hardware you have is included in the NetVanta 7100 Echo Return Loss Measurement Guide.

Summary of Bug Fixes

This section highlights major bug fixes in AOS version A2.02.00.

Default WAV attachment max-size for secondary email is 60k

Issue Detail

- When configuring “voicemail notify email-secondary attach-message pcm” or selecting to “Attach WAV” in the web interface for Email Notification of Voicemail, the default message for the secondary email address was 60k.
- Default message size should be 1000k
- **Note that the message size is only configurable via the CLI at this time.**

Cannot configure WAV attachment max-size on ring groups

Issue Detail

- The command "voicemail notify email attach-message pcm max-size" could not be applied to Ring Groups.

Reboot when clearing policy sessions

Issue Detail

- A condition was discovered that when Dynamic DNS was configured on an interface, the command “clear ip policy-sessions” was issued, and the command “no ip address” was issued on the interface with Dynamic DNS that the system may reset.

Num-rings does not follow the default mode setting if not configured

Issue Detail

- If “num-rings” (or “# of rings” in the web interface) is not configured for a System Mode, then the Call Coverage would use 4 rings instead of the configured value for the Default Mode. For example, if you had “num-rings” configured for 2 in the Default Mode and no “num-rings” configured for Night Mode, when the system transitioned to Night Mode it would ring 4 times instead of 2 times before following Call Coverage.

Configuring a speed dial longer than 40 digits may cause a system reset

Issue Detail

- If a User Speed Dial is configured in the Personal Phone Manager that exceeds 40 digits, the system may reset.

Named digit timeout was not being bypassed with user account hotline command

Issue Detail

- If you configure Hotline on a User Account, the Dial Plan Named Timeout value was still enforced. Since the Hotline feature sends the configured string of digits immediately, there should be no need to wait for a Dial Plan timeout. This timeout has been bypassed.

Incorrect SDP grammar for RFC 3264 could reset the system

Issue Detail

- If a call received on a SIP Trunk follows Call Coverage to an Auto Attendant and times out to Voicemail, the system may reboot.

Caller ID does not work on ground-start trunk accounts

Issue Detail

- Caller ID did not work properly when using ground-start. The debug showed Caller ID being sent, but if you monitored with a butt set no FSK information was played out.

The SIP location database may not restore all registrations after reset

Issue Detail

- When the NetVanta 7000 Series product is configured with “ip sip database local” or SIP Client Location Persistence in the web interface, there could be a possibility that not all of the registrations would be retained over a reboot.

Upgrade Instructions

Several steps need to be taken to assure a valid upgrade. First, save your existing configuration via the Configuration page in the web interface under Utilities (remember to include voice settings).

Accessing AOS A2.02.00

AOS A2.02.00 is available for download at <http://www.adtran.com>. Follow the instructions below to locate the firmware and download it.

1. Go to <http://www.adtran.com> and login using your IPT Partner login.
2. If your landing page is the ADTRAN Advantage Partner Zone, click Software/Firmware Downloads and choose NetVanta Products, then NetVanta 7100.
3. If you do not have a landing page configured, click on Support and choose NetVanta Products / NetVanta 7060/7100.
4. Select Firmware Updates."

AOS Upgrade Instructions

1. Upload the AOS Image to FLASH via the Firmware page in the web interface or via FTP.
2. From the web interface, choose the new image as the Primary Firmware and click Apply.
3. (Optional) Copy previous Primary AOS image to CFLASH.
4. If using the web interface, select the Primary and Backup images from the drop-down lists and click Apply. If using the Command Line Interface in Global Configuration Mode, enter "boot system cflash NV7100A-A1-01-00-E.biz X Y verify" where "X" is the location of the backup firmware image and "Y" is the name of that firmware image.

The "verify" keyword tells the system to check the AOS image to make sure it was uploaded properly before applying it. Note that the filename may be different for other NetVanta 7000 Series products.

5. After the AOS image is applied, then click Reboot unit or enter "reload" and select "y" to save and to reload.

AOS Bootcode Details

When upgrading to AOS A2.02.00, an upgrade to the Bootcode is not required.

Appendix A – Errata for A2.02.00

The following is a list of errata that still exists in A2.02.00.

Reboot when receiving ISDN call with Caller ID name but no number

Issue Detail

- If a call is received from an ISDN PRI Trunk Account with Calling Party Name given, but no Calling Party Number the system may reset.

Errata Justification

- It is not very common to see Calling Party Name without Calling Party Number on an ISDN call. The resolution for this issue will be in the next AOS release.

Reboot when cross-connecting second TDM group

Issue Detail

- If a non-contiguous tdm-group for a PRI is applied to an ISDN Group (i.e. 1-8 and 24) and you try to apply another tdm-group from the same T1 interface with the remaining channels (9-23) to a PPP or Frame Relay interface the unit may reboot.

Errata Justification

- Assigning non-contiguous tdm-groups on the same T1 interface is not supported. The reboot condition will be resolved in a future AOS Release.

Configured outbound proxy port incorrectly affects SIP headers

Issue Detail

- When the configured outbound proxy uses a different port than the SIP server, the system incorrectly uses the outbound proxy port in the URI, From, and To headers instead of just for the IP header.

Errata Justification

- The testing for the resolution of this bug is not yet complete. The testing will be done and the solution included in a future AOS release.

Calls into Voicemail or Auto Attendant incorrectly record Lost Packets

Issue Detail

- The output of “show voice quality-stats” reports many lost packets on calls to Voicemail or Auto Attendant.

Errata Justification

- These statistics are inaccurate for Voicemail and Auto Attendant due to the fact that no RTP packets are sent during the silences between prompts. They do not reflect actual voice quality issues.

Voicemail Setup Wizard fails to set voicemail password with encryption

Issue Detail

- With “service password-encryption” enabled, the Voicemail Setup Wizard does not set the Voicemail Password correctly and the new user cannot login to Voicemail.

Errata Justification

- The password can be configured via the CLI. With “service password-encryption” disabled this does not occur. This will be addressed in a future AOS release.

[Web]: Symbols in a Line Label create a parsing error

Issue Detail

- If a symbol, for example “&” is used in an IP Phone Config as a Line Label, a parsing error will occur when trying to load the config file from the web interface of the NetVanta 7000 Series Products.

Errata Justification

- If the symbol is removed, the parsing error can be avoided.

Voicemail attachment-level command not fully implemented

Issue Detail

- A new command, “voicemail attachment-level”, is being developed to adjust the audio level of WAV attachments to Email Notification of Voicemail. This command is currently included in AOS A2.02.00 for beta purposes and is disabled by default. Enabling the command in this AOS may cause Email Notifications to fail.

Errata Justification

- Default setting is disabled. Further development is being done to remove caveats and will be released in a future release of AOS.

[Web]: Error when viewing Trunk Account config page

Issue Detail

- If a SIP Trunk Account has ANI Substitution configured, the webpage for that Trunk Account cannot be viewed. It will return a 503 error in the web browser.

Errata Justification

- The configuration for the Trunk Account can still be viewed from the Command Line Interface (CLI).

[Web]: Unable to Record Audio Prompts in Firefox 3.0.1

Issue Detail

- With Firefox 3.0.1, when you click New in the Audio Prompt section a error message pops up after you fill in the information about the prompt that is about to be recorded.

Errata Justification

- This configuration can be done in an alternate web browser (Internet Explorer, Firefox 2.x, etc).

[Web]: Reboot when selecting ETSI 300 ISDN Switch Types

Issue Detail

- Selections for ETSI 300 102 and ETSI 403 ISDN Switch Types are available in the web interface configuration for the PRI interface. These selections are not supported and choosing them may cause the system to reset.

Errata Justification

- The reset can be prevented by not selecting the ETSI 300 options for ISDN Switch Types. The ETSI 300 options are not available in the CLI. This will be addressed in a future release of AOS.

*61 SPRE Does Not Work for International Numbers

Issue Detail

- When adding a speed dial with *61 SPRE, adding an international number will cause the system to return an error (484 Address Incomplete).

Errata Justification

- The speed dial entry can be added from the CLI.

Congestion may cause loss of encrypted packets for VPN

Issue Detail

- Under heavy load, the unit cannot service packets at the same rate at which they need to be encrypted for VPN tunnels. This causes the unit to drop packets. Also, input decryption errors are reported to the terminal due to encrypted packets missing in the sequence. Throughput performance is slightly affected.

Errata Justification

- This does not occur in all cases and is expected to be addressed in a future release of AOS.

Appendix B – Related Documents

The following are documents related to the new features included in this AOS Release as well as other new documents that have been recently posted to the ADTRAN Technical Support Knowledgebase.

NetVanta 7000 Series Feature Related Documents

NetVanta 7100 Echo Return Loss Measurement Guide (UPDATED) - <http://kb.adtran.com/article.asp?article=2345&p=2>

Phone and NetVanta 7000 Series Related Documents

Adding a Silent Ring to an IP 700 Series Phone (New) - <http://kb.adtran.com/article.asp?article=2604&p=2>

IP 700 Series 1.3.7 Release Notes (New) - <http://kb.adtran.com/article.asp?article=2839&p=2>

For more configuration guides, installation guides, white papers and more, visit ADTRAN's knowledge base at <http://kb.adtran.com>.