RELEASE NOTES

IP Business Gateway Products
AOS version A4.11.00
January 23, 2012

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Introduction

AOS version A4.11.00 is a maintenance release that addresses customer issues that were uncovered in previous code releases.

This release is generally available code, meaning that it has been subjected to both design verification and product qualification testing. Results obtained during this testing have been evaluated and the code has been determined to be ready for general availability. Caveats discovered during testing but not addressed in this build are listed in *Errata on page 5*.

A list of new or updated documents for this release appears in *Documentation Updates on page 8*.

Configuration guides, white papers, data sheets, and other documentation can be found on ADTRAN's Knowledge Base, http://kb.adtran.com. The contents of these release notes will focus on the Total Access 900(e) Series and NetVanta 6300 Series platforms.

Supported Platforms

- Total Access 900 Series – IP Business Gateway, single T1/ADSL interface
- Total Access 900e Series – IP Business Gateway, multi-T1 interface
- NetVanta 6300 Series – IP Business Gateway, modular WAN

System Notes

This section explains notes regarding AOS.

- Transparent proxy mode does not function when the phones are configured to use TCP.

Features and Enhancements

This section highlights the major features, commands, and behavioral changes for AOS version A4.11.00.

- There are no new major features, commands, or behavioral changes for AOS version A4.11.00.

Fixes

This section highlights major bug fixes in AOS version A4.11.00.

- When an ADTRAN unit was configured for RADIUS authentication and at least two SSH connections (including keep-alives) occured before the RADIUS server response for the first connection was processed, the device would lock up. A power cycle was required to restore service.

Errata

The following is a list of errata that still exist in AOS version A4.11.00.

- Accept statements within voice trunk groups do not allow number ranges within square brackets.
- Transferring a call to a virtual user (voicemail only) on the NetVanta UC Server ECS disconnects the call.
- If a 486 Busy Here response is received while a call is in the PreConnected state, a forward disconnect will be performed at the same time the busy signal is being played out, causing the call to be disconnected before the caller can hear the busy signal.
- QoS map match statistics for interfaces are not displayed on the QoS Map menu in the GUI when the map is applied to interface.
- When the command **p-assert-diversion** is used to add the P-Asserted-Identity header to the REFER on a Two B-Channel Transfer, the header might not be added.
- If inactive SDP is received in a 183 Session Progress response for early media cut-through, the call could be torn down.
- If an ADTRAN unit has multiple subinterfaces configured and the first subinterface is in the shutdown state, the output of the **show interface** command for all of the other subinterfaces will indicate that the line protocol is down. This issue is purely cosmetic.
- Over time, a memory leak that occurs when receiving REFERs when **voice transfer-mode network** is configured can result in a reboot.
- If a DNS query is made for an A record as a fallback from an SRV record, and a name error response is received, the A record query is continually retried.
- When a secondary SIP server is configured on a SIP trunk, the unit will not fail over to the secondary server after receiving a REFER to a valid extension.
- When both the **registrar threshold [absolute | percentage]** <*value*> and **registrar expire-time** <*value*> *c*ommands are present in a configuration, the **registrar expire-time** <*value*> is listed first, which can lead to an error when booting the unit and failure to properly restore that portion of the configuration.
- Network conferencing does not function properly with a Genband C20/A2.
- Under certain conditions, a QoS map applied to an interface will not disable itself when the bandwidth is inadequate.
- On a B2BUA call between two SIP endpoints, if the SDP offer comes in as an 18x response, the call will fail.
- If a MGCP SignalRequest to disable VMWI is received while a dial tone is being played out the same port, the FSK to disable VMWI will play while dial tone is being played, resulting in the phone being unable to interpret the VMWI FSK.

- Under very specific conditions, a 503 Service Unavailable response can be encountered when accessing the QoS Maps section of the GUI.
- An E&M trunk does not treat 01 for the A and B signaling bits as a non-idle condition.
- SIP calls that attempt to route out a SIP trunk that does not have a configured SIP server will receive a 400 Bad Request instead of a more appropriate error message.
- In the PUBLISH messages generated by VQM reporter, LocalURI and RemoteURI are reversed.
- The ADTRAN unit might not change the destination host or port for RTP to reflect the port requested in a reINVITE received during a T.38 call.
- Using PuTTY keepalives in combination with Radius Authentication could potentially lockup the ADTRAN unit. A power cycle is required to restore service.
- Out of Order packets can appear as a negative value in the **show voice quality-stats** command output.
- If a reINVITE is received before the final response has been received for a previous reINVITE, the ADTRAN unit's 500 Server Internal Error response does not contain the mandatory Retry-After header.
- In some cases, the user will see the following error message on the CLI when assigning an unnumbered address to an HDLC or PPP interface: **%Point-to-point (non-multi-access) interfaces only**. A possible workaround is to assign the unnumbered address to a loopback interface and then assign it to the desired Ethernet interface.
- In some cases, the ISDN caller ID name will not be delivered when configured for delivery in a CALL PROCEEDING message instead of a SETUP message.
- Using some authentication options, the Reload Scheduled In message will not appear at login if a reload is scheduled.
- Configuring a non-default PRI response code mapping for a 403 Forbidden response received from the SIP network does not function properly.
- The QoS wizard cannot apply a QoS map to a MEF Ethernet interface.
- In some scenarios, upon receipt of a reINVITE, the sess-id and sess-version in the origin field of the SDP answer could change.
- If an unsupported packetization period is presented to the ADTRAN unit in an SDP answer, no indication that the presented ptime is not supported by the ADTRAN unit will be sent to the remote user agent. This will result in no talk path.
- Under certain conditions, inbound RTP streams for voice calls terminated by the ADTRAN unit cannot be exported to an external NetFlow collector.
- In rare cases, the PRI interface will not acknowledge a CONNECT or DISCONNECT message from the PBX. Performing a shutdown followed by a no shutdown on the PRI interface resolves the issue.
- With multiple PRIs in the same ISDN group, bringing one PRI down will cause calls that should use the other PRI to fail. A workaround is to use two ISDN groups that only contain one PRI each.

- The ADTRAN unit will not properly process RFC 2833 DTMF packets if padding is used to increase the size of the RTP packet.
- T.38 PRI to SIP fax calls initiated by an Interactive Intelligence PBX over a PRI trunk could fail.
- In some cases, the **show interface t1 0/1 performance total** does not show the actual totals for the performance intervals. The total values can be displayed in the GUI.
- If a AAA authentication banner is configured, users logging in using SSH v1 will not see the banner when prompted for a login. The same configuration for Telnet or SSH v2 users functions correctly.
- Setting the T1 line build out (lbo) back to the default using the **no lbo** command does not function properly.
- When querying the OID for the system description, the NetVanta 6240 will not return the model in response to the SNMP GET.
- If the configuration includes a secondary IP address, executing an SNMP walk results in a failure at the ipAdEntAddr OID with error OID not increasing. If the secondary IP address is removed, the walk completes successfully.
- If a SIP trunk is trying to register a large number of users and the registration fails, activating **debug sip trunk-registration** will cause the telnet and console connections to become unresponsive. This occurs on the NetVanta 6310/6330 Series platforms only. A reboot clears the condition.
- A DSP resource is reserved for RTP during call setup for all calls into an E&M wink trunk. This could prevent a DSP resource from being available to generate DTMF for DNIS if 23 calls are already active. This only applies to the first generation Total Access 900 Series products.
- When more than 18 simultaneous calls are connected on first generation Total Access 900(e) Series products using the G.729 CODEC, it is possible that DTMF tones will not be recognized by the terminating CPE due to issues with the units generating frequencies at 2804 Hz. This degradation in tone generation cannot be heard by the human ear. With 23 simultaneous calls, the call completion rate to the terminating CPE is approximately 99.5 percent. With 24 simultaneous calls, the call completion rate drops to approximately 97 percent.
- If a SHDSL circuit with a detected bad splice retrains to a different line rate, the distance of the bad splice will display incorrectly.
- Using a range for a dial plan entry (for example, **voice dial-plan 1 user1 [1-9]xxxx**) does not function properly.
- The NetVanta 6310 drops approximately 1 out of every 15K packets from the SHDSL to Ethernet direction with the SHDSL ATM NIM2.
- Calls could fail if the ADTRAN unit receives a reINVITE at the same time it is attempting to reINVITE the same call. This is known as SIP glare, and it can occur with modem passthrough and T.38 reINVITEs if both sides of the SIP dialog attempt to reINVITE the call simultaneously. This can be worked around by changing the **voice modem passthrough mode** to either **inbound** or **outbound** depending on the call direction for which you wish the unit to detect modem or fax tones. The default is both.

- With the ADTRAN unit set for **voice flashhook mode transparent**, the conference originator must wait for the third party to answer before executing the flashhook to initiate the conference.
- Outbound proxy mode for the SIP proxy does not properly function when the phones are configured to use TCP.
- PRI to ground start trunk calls do not function on the Total Access 900e when the PRI is on T1 0/3 and the ground start trunk is on FXO 0/1. The PRI will go out of service when this type of call is attempted on these ports. These calls function on both the Total Access 900 and Total Access 900e if the PRI is on T1 0/4 or if the ground start trunk is on any port other than FXO 0/1.

Upgrade Instructions

Upgrading ADTRAN products to the latest version of AOS firmware is explained in detail in the configuration guide *Upgrading Firmware in AOS* (ADTRAN's Knowledge Base article 1630), available at http://kb.adtran.com. For upgrade instructions specifically for NetVanta 6310/6330 Series units with EFM NIM2s, refer to the *Upgrade Instructions.txt* file included in the firmware upgrade bundle available on the *Support/Software Downloads* section of ADTRAN's website at http://www.adtran.com.

Documentation Updates

The following documents were updated or newly released for AOS version A4.11.00 specifically for the IP business gateway products.

- There were no updated or newly released documents for AOS version A4.11.00.

