RELEASE NOTES

ADTRAN IP 700 Series Phones
Firmware version 2.2.0
March 5, 2012

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Contents

Introduction

Firmware version 2.2.0 is a major release that adds new features and 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 7*.

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 platforms listed below.

Supported Platforms

- ADTRAN IP 712
- ADTRAN IP 706

Important Notices

This section explains important notices about Firmware version 2.2.0.

- This release is not recommended for use with NetVanta ECS.

- Phones being upgraded from 1.3.x must first be upgraded to version 1.3.16 (available on ADTRAN's website at http://www.adtran.com) before proceeding with upgrading to 2.2.0.

- Attended or unattended transfers of calls on shared line accounts (SLA) or shared call appearances (SCA) are not supported in this firmware release.

System Notes

This section explains notes regarding the IP 700 Series phones.

- Joining two active calls on a phone using the **Conference** key is currently not supported.

- The IP 700 Series phones do not support status group names with non-alphanumeric characters.

- Calls with packetization periods other than 20ms will be disconnected by the phone with a BYE response, as only 20ms packetization periods are currently supported.

- Occasionally, the first 2-3 seconds of outbound audio to a caller is lost on an inbound call to a Ring Group.

- When a call is sent to the phone via an unattended transfer, the initial call from the transferring party is canceled once the transfer completes. This results in a missed call reported on the phone. This is expected behavior.

Features and Enhancements

This section highlights the major features, commands, and behavioral changes for Firmware version 2.2.0.

- Added LCD backlight functionality. By default, the LCD backlight only lights under the following conditions:
  - user presses a button
  - handset is lifted
  - phone rings with an incoming call
  - electronic hookswitch is activated

With **Do Not Disturb** or **Forward** enabled, the phone's LCD will not light with an incoming call. Status Group and Shared Line updates also will not light the LCD.

- Added support for Transfer, Park, and Conference using only one line key. Origination of attended, unattended and blind transfer calls display on the same line key as the call being transferred.
  - Attended - Press **Transfer,** enter number, wait for remote party to answer and press **Transfer** again.
  - Unattended - Same as attended but without waiting for the remote party to answer.
  - Blind - Press **Transfer,** press **Blind** and enter number.

  Origination of a park call on the same line key as the call being parked.

  Origination and establishment of conference on the same line key that is being used by the original call of the conference.
  - Once conference is established, the Caller ID of both parties is shown on the line key (i.e. John+Mary).
  - Conference drop key allows the user who initiated the conference to select which party to drop from the conference.

  Receiving multiple calls on the same line key is not supported.

- Allow notification of missed calls to be disabled while continuing to record them in the phone directories.

- Added ability to transfer a call without waiting for ringback of the remote party or waiting for the remote party to answer. This feature is initiated by pressing the **Blind** softkey after initiating the transfer using the **Transfer** button or softkey.

- Added support for G.722 wideband codec including: - Support frequency range of 150Hz to 7kHz on the handset, headset and speaker phone.

  - Sampling rate of 16kHz which allows signals up to 8kHz to be heard.

  - Packets are encoded at 64Kbps.

  Calling or called party must also support G.722 to take full advantage of this feature.

- Added support for call park and retrieve on the NetVanta 7000 series products by pressing the Park X/Retrieve X BLF key (where X is the Park Zone number).

- Added enhancement to caller ID pop-up. Displays both the caller ID name and caller ID number of the calling party.

- Added HTTP and HTTPS provisioning, designed per RFC 2818. A new menu item is available under which HTTP, HTTPS, FTP, and TFTP configurations can be set including user names, passwords and path. Allows support for both IP addresses and domain names.

- Added support for dynamic BLF status groups. Currently, the configuration change required to support this capability is only available by manually changing the phone configuration file. Support for this configuration from the NetVanta 7000 web interface is planned for an AOS Release after A5.02.00.

  Through subscription to a Status Group on a NetVanta 7000 product, the phone can now receive dynamic updates of changes to the Status Group on the NV7000. A reboot to apply changes is no longer necessary. Previously, each Status Group entry was assigned to a Line Key so a configuration file update and reboot was necessary to update the Status Group.

- Added enhanced method used to learn SNTP server and timezone offset. Instead of setting configuration in **adtran_customer.txt** file, the phones learn the timezone offset value from the DHCP server, specifically DNCP Option 2. If configuration exists in the **adtran_customer.txt** file and the phone also receives this value via DHCP, the configured value in the file takes precedence.

Fixes

This section highlights major bug fixes in Firmware version 2.2.0.

- In some cases, a transferred call would get stuck on a line key during the process of the transfer.

- Phone locked up while transferring and receiving a call

- Phone locked up when trying to retrieve a call from hold.

- If using SLA or SCA, after a period of time, some phones were unable to answer incoming calls.

- IP phone would not request an IP address in VLAN 2 when receiving DHCP option 157 from a Windows 2003 server on vlan 1.

- When sending the SDP answer, the phone would list multiple codecs instead of only the one it was using. When passing through multiple SIP proxies, this could have caused a codec mismatch between call legs, which resulted in a no audio scenario.

- When the hold softkey was pressed on an SLA/SCA, the call was put on private hold, not public hold as expected. This was a change in behavior from 1.3.x.

- When using the web GUI to provision FTP Server information, a forward slash (/) symbol would be replaced with a **%2F**. For instance, an entry of **10.17.20.254/ADTRAN** would display as **10.17.20.254%2ADTRAN**. Using the LCD Menu on the phone avoided this issue.

- Speed dial numbers programmed to buttons directly on the phone were not displayed upon reboot of the phone. They continued to appear in the configuration menu, but would not display by the keys or operate properly. Speed dial numbers programmed from the NetVanta 7000 series web GUI did not have this issue.

- When performing an unattended transfer, the **Transfer** softkey would not be removed after it was pressed to complete the unattended transfer, leading to confusion as to whether the transfer had been completed.

This section highlights major bug fixes in Firmware version 2.1.0.

- If a call was hung up on a phone while it was receiving RFC 2833 DTMF events, future received calls would always hear the last tone received.

- From the front panel of the phone, users were able to re-configure a line key as a speed dial. Menu changes in this release prevent this from being possible.

- When using the French language and changing the Misc. Settings (Headset Switch Hook, MWI Cadence, and HFAAI), the phone menu response may slow down or lock up.

Errata

The following is a list of errata that still exist in Firmware version 2.2.0.

- An SLA call that is retrieved from public hold cannot be transferred.

- A line lockup occurs when an incoming call is answered during an already initiated call transfer that was not completed.

- Pressing cancel when trying to conference and then re-entering the second party number can cause the line key to lock up.

- After transferring a call from an SLA, the line no longer appears as busy on the phone that performed the transfer. If an attempt to seize that line is made while it is still busy, the phone will give dead air.

- In a sequence where an initial call is answered, followed by a second ignored incoming call, followed by a third incoming call that is answered after placing the first call on hold, the line key for the first call does not display the On Hold icon.

- After ignoring two subsequent incoming calls, the softkeys displayed are **Dial, Redial, Pickup,** and **More.** Softkeys while on an active call should display **Hold, Park, End,** and **Call.**

- The phone will lockup when using click-to-dial from NV7100 Personal Phone Manager when Syslog is enabled.

- Ringback tone is not heard when placing a call from the NetVanta BCS ucCompanion or the NetVanta 7000 Personal Phone Manager using the click-to-dial capability.

- Numbers dialed to conference a call or transfer a call are not added to the Redial History or Placed Calls log.

- IP 700 Series phones will not play the ringback tone when it receives a **180 Ringing** response after a **183 Session Progress** response.

- If ending a call when another call is incoming, the IP phone rings at maximum ringer volume.

- When an apostrophe is present in a field (such as Bob's, Doctor's, etc), the Personal Directory contents are truncated following the apostrophe.

- A phone label over 24 characters or a display name over 15 characters can overflow characters in the SIP From, To, and Contact fields in SIP messages.

- When a call is picked up from public hold, the SLA line label shows the registration username, not the caller ID.

- If the **Overhead** soft key is pressed on an idle phone, nothing happens. To work around this problem, the user can go off-hook first and then press the **Overhead** key.

- When dialing an extension by pressing the Status Group BLF key for that extension, the call is not recorded in the Placed Calls list.

- When receiving a call, if the phone rings for 60 seconds, it will send a **486 Busy Here** message back to the SIP server.

Upgrade Instructions

Upgrading ADTRAN IP 700 Series phones to the latest version of firmware is explained in detail in the configuration guide *Upgrading IP 700 Series Phones Firmware* (ADTRAN's Knowledge Base article 3551), available at http://kb.adtran.com. Firmware upgrades are 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 Firmware version 2.2.0 specifically for the ADTRAN IP 700 Series phones.

- Upgrading IP 700 Series Phone Firmware Configuration Guide (61200770E1-29A, article 3551)

- IP 700 Series Phone User Manual (6AOSUG0001-1A, article 3568)

- IP 700 Series Phone Administrator Guide (6AOSAG0001-31A, article 3567)