



Release Note For Firmware Version 1.0.6.7

June 12, 2005

Release Notes

1.0.6.7

- Fix Refer-By header issue
- Fix the issue where TFTP server is wiped out if upgrade from below 1.0.5.21 using TFTP with config file

1.0.6.6

- Fix crash issue when changing static IP to DHCP and reboot through Web UI
- Fix ill-formatted contact header in 302 response
- Fix the issue where INVITE after 302 response bypasses outbound proxy

1.0.6.5

- Fix device lock-up issue when multiple RTCP packets are embedded in a single UDP
- Fix the issue with MD5-sess authentication

1.0.6.4

- Add the Web configuration for time zone on HT 486 Rev 1.0
- Improve the reliability of reading from Flash
- Fix the PSTN ringing issue with HT486 Rev 2.0 in Demark
- Fix the issue where interruption table may get corrupted under certain conditions

1.0.6.3

- **Fix the no dial tone issue with certain European analog phones when on-hook voltage is set other than 18V**
- **Fix the European PSTN ringing issue with HT486 Rev 1.0 and 2.0**
- **Fix the issue when Grandstream phone does not upgrade ARP table on gratuitous ARP**
- **Fix the header parsing issue when expires header appears before contact header**
- **Fix the issue where Voice Frames Per TX can't be updated**
- **Fix the frequent registration issue due to Ethernet link loss**
- **Fix the SDP negotiation issue when there is multiple m= lines with both audio and T.3 8**

1.0.6.2

- **Add work around for lost-registration issue with VOCAL**

1.0.6.1

- Add the support for bridging mode on HT486 rev. 2.0
- Change the default iLBC payload type to 97



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- Change the jitter buffer delay to 2 for G.723 and 3 for other codecs
- Add the support for VLAN coloring for VoIP and PC on HT486 Rev2.0
- Fix the hook flash problem with LBR codecs
- Fix the issue where internal web server is not accessible from LAN port when HT486 rev1 or rev2 is reset and WAN link is down
- Fix the issue where branch ID is not upgrade during registration
- Fix the issue where replaces header cannot match an early dialog
- Internal web server now returns "access denied" rather than a blank error page

1.0.6.0

- **This release includes a new boot loader program. Customer is not encouraged to downgrade to the older firmware. Customer is recommended to contact support should they need to downgrade to the older firmware.**
- Support T.38 real-time fax on HT-286, HT-486 Rev 1 and HT-486 Rev 2. Fax Pass-Through mode under PCMU/PCMA is still supported
- Support Syslog on BT101/102, HT-286 and HT486 Rev 2
- Fix the FXS port frozen issue under certain circumstances
- Add call statistics on status web page on BT101/102, HT-286 and HT486 Rev2
- Enable caller ID scheme and call waiting caller ID support on HT-486 Rev 1
- The device now returns 481 instead of 200 if SIP INFO is received on a unknown call
- Add the support for Nortel x-nt-GUID header
- Add the support for P-Asserted-Identity header
- Add the support for DTMF tone A-D

Release 1.0.5.23 3/10/2005

- Fix the problem (from code merge) causing tftp of 0 for HT486 rev 1.0 under factory reset or HTTP upgrade circumstances
- Fix the issue related to syslog implementation (use of broadcast address and a typo)
- Do not tear down a call immediately upon hanging up but instead wait for 3 seconds before clearing a call
- Fix the stack overflow and memory leak issue that cause devices to lock up and crash
- Fix the file download corruption issue related to PPPoE
- Fix the issue where PPPoE-Relay-Session-Id is not sent under certain conditions
- Fix the TCP MTU negotiation issue
- Fix the Layer 2 QoS issue associated with ARP packet
- Add support for Canadian Call Waiting Caller ID (HT286/487¹ only)
- Fix invalid RTP SSRC after SIP RE-INVITE
- Fix the issues related to Record-Route
- Fix the issue where the phone will continue to ring after a BYE instead of CANCEL is received
- Fix the issue where branch ID is not upgraded for new SIP INFO request
- Fix the issue where HT486 may send REGISTER request to its WAN port under certain conditions
- Change the default On-Hook voltage from 24V to 36V on HT286 and HT487

¹ HT487 is HandyTone 486 Rev 2.0



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- Fix the issue where callee does not send DTMF when configured as SIP INFO or RFC2833 (BUG ID 4)
- Fix the caller ID/call waiting caller ID issue with GE phones
- Fix the issue where iLBC always uses 30ms mode

HTML 1.0.0.47

3/10/2005

- Add support for Canadian Caller ID and Call Waiting Caller ID (HT487 and HT286 only)
- Update the copyright information
- Fix broken HTML when the device is busy

ISSUES NOT FIXED

- Slow PPPoE connection speed reported in France
- VLAN connectivity with certain managed switches

Release 1.0.5.22 1/21/2005

- Changed polarity reversal logic per customer request and fixed the polarity reversal issue
- Add support for syslog server (HT286 only)
- Change the choice between tftp upgrade and http upgrade to mutual exclusive
- Fixed we cannot dial SIP call without using # key in HT486 Rev 2.0 when PSTN access code is non-default.
- Fixed we do not use RFC2833 to send DTMF when the incoming SDP contains iLBC and the immediate next "a" line is not the fmltp line for iLBC
- Fixed we use G.722/8000 instead of G.722/16000 (BT100 only). (Fixed compatibility problem with some other vendor)
- Fixed: we will retry http download if we received TCP RST.
- Send DHCP NAK if a DHCP request is not within our memory record (to force a restart of DHCP Discovery process).
- Fix the issue related to Record Route under some situations
- Fix the layer-3 TOS issue
- Fix the port forwarding issue

Release 1.0.5.19 12/3/2004

- Do not display SIP authentication password on the HTML page
- Release DHCP or PPPoE connection before rebooting
- Re-enable fax tone detection upon which switching to PCM if previously using low bit rate codec
- Add configuration support for European Caller ID (286 & 486 Rev 2.0 only)



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- Add system up time in the “status” page of the Web interface
 - Allow 96 to be used for DTMF payload type
 - Fix the DHCP length issue which causes our DHCP offer to be rejected by Linksys router when it is on the LAN side of 486/487
 - Add support for call waiting caller ID (HT286 and HT486 rev 2.0 only)
 - Add support for polarity reversal configuration parameter (HT286 and HT486 rev 2.0 only)
 - Fix the request URI and Route Set bug
 - Use “terminated” as Subscription-State for termination NOTIFY as transferee
 - Add register state information on the “Status” web page.
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- Release 1.0.5.18 11/14/2004
 - Change the factory default setting of “enable call feature” to TRUE; change the factory default setting of “NAT Traversal” to “Yes”; change the factory default setting of “Inter-key timeout” value to 4 seconds; change the factory default setting of “upgrade checking frequency” to 7 days.
 - Fix the issue (resulting from recent code change) that causes bad IP header checksum in HTTP Upgrade packet
 - Fix the issue that if no response is received due to bad HTTP GET packet or packet drops, HTTP upgrade retry will not happen and SIP registration will not happen or take very long time to happen
 - Support attended call transfer and server-side 3-way conferencing for Nortel
 - Fixed send NTP to STUN server when STUN server is in FQDN form.
 - Fixed dialing bad URI when offhook auto dial is enabled.
 - Fixed BT-100 dialing bad URI when using the message button.
 - Fixed BT-100 show only first caller in caller-history.
 - Allow lower case encoding in Replaces.
 - Change the wording of “do not disturb” to “disable call waiting” in Web interface
 - **Support 3-page Web configuration interface**
 - Add configuration parameter to support **special feature** for Nortel’s MCS, Broadsoft (except HT486 rev 1.0)
 - Change the target MAC address from ff.ff.ff.ff.ff to 00.00.00.00.00.00 in ARP request packet
 - Always Unregister (not all contacts but only the binding that it registered as) and re-register when “UPDATE” is pressed in Web configuration interface. (HT486 2.0 only)
 - Fixed transferee stops playing ring-back tone if transferor hang up before transfer target answers on blind-transfer.
 - Fixed answering ARP for IP address of the wrong port (eg. we answer to ARP for 192.168.2.1 even though the ARP comes from WAN port).
 - ALWAYS set the http upgrade URL to: fm.grandstream.com/gs and enable firmware upgrade (YES) upon reset to factory default.



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- Add support for 501 not implemented response
- Fix the problem where in the Web user interface, pressing the UPDATE button will not get response if no parameter is changed
- Fix the issue of exposed password on HTML—we will not display password in the Web interface and will not take empty password.

HTML 1.0.0.42 11/11/2004

- Use new graphic user interface with 3 different tabs (status, basic settings and advanced settings)
- add configuration parameter to support special feature for Nortel MCS, Howdy, etc. (HandyTone 486 Rev 2.0 only)
- do not display password on HTML pages

Key bug fixes and enhancements since Release 1.0.5.11

Release 1.0.5.16 10/18/2004

- Improved routing performance for HTTP traffic
- Support enable/disable of caller ID, and call waiting via keypad
- Fix the issue related to processing encrypted configuration file
- Fix the issue causing 400 bad response to be sent for NOTIFY after blind transfer
- Support Fragmented UDP frames for SIP processing
- Fix the missing Contact field for SUBSCRIBE and INFO request
- Add support for upgrading firmware or modifying configuration via http. Support file path for http url.
- Add logic to detect and decline duplicate IP during DHCP application stage.
- Add call time ticking display for callee (BudgeTone 100 only)
- Support file content authentication checking using AES during firmware upgrade
- Support for release of IP upon detecting the link is down for more than 15 seconds and re-application for IP address as soon as the link is up again
- Support attended transfer and Replace header
- Support Proxy-Require header and its configurable content
- Support pre-scheduled firmware upgrade checking frequency and add control flag to allow or prohibit auto firmware upgrade.
- Support configurable PSTN access key string
- Support 2 different Web login screens (1 for end user and the other for admin). The login interface is shared between 2 different user modes but the edit screen is different. Add port forwarding, DMZ and DHCP server related configuration options to end user configuration screen
- Fix the loss of registration issue



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- Fix the issue that a HOLD initiated by 1 party can be released by the other when the other party presses HOLD and then releases the HOLD.
- Fixed the extra “@” character in “From” header when user ID is blank.
- Fix the issue related to negotiating and using the right MTU when remote end uses a smaller MTU (HT486 only)
- Fix the PPPoE link state monitoring issue if CHAP is used.
- Fix the issue where our RTP sequence ID is randomly changed when a 183 response is initially received and then a 200 OK response is received.
- Fixed layer 2 QoS (VLAN and 802.1p) issue
- Maintain the credential information for all subsequent REGISTER after the initial registration is successful, as opposed to restart challenge-authenticate cycle for each new REGISTER transaction
- Fix the “reset to factory default” which is recently broken
- Increase the timeout value for PPPoE call establishment. This will better accommodate some Chinese DSL modems’ slow response. Also reset IP upon detecting the pppoe link is down for more than 15 seconds.
- Fix the issue where improperly deleting an un-initialized timer can cause timer malfunction
- Fix the issue that PPP PAP timer interferes with CHAP negotiation
- Fix the issue related to processing multiple IP addresses of DNS A record response
- Fix the issue that PCMU is always included in SDP even if it is never configured on HandyTone products
- Fix a bug to better handle very long Contact header, e.g., 500+ characters long
- Fix theptime negotiation issue where we didn’t use the defaultptime when the remote end responds with a codec that is different from our first offered codec and which has noptime in its SDP
- Fix the issue that after firmware upgrade the device should (but previously does not) reboot automatically.