
GRANDSTREAM NETWORKS

Firmware Release Notes

Firmware Version 1.0.5.16

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: November 9, 2015

CHANGES SINCE FIRMWARE RELEASE 1.0.5.8**ENHANCEMENT**

- Added support for Spanish, French, and Chinese on the web UI->Call Features Settings page under all 4 profiles
- Added support for deleting core files from web UI
- Added improvement for inter-port and far end echo issue
- Added ability to upload device configuration file directly from the web UI
- Added busy tone when using current disconnect
- Added Germany to "Country specific deployment" list
- Added option to disable PnP SUBSCRIBE feature
- Added security improvement: Hide passwords from command line
- Added reboot timer feature
- Added web UI option to configure local RTP port
- Added option to hide IP address from LCD
- Added DHCP option 42 and DHCP option 2 support
- Added option to enable/disable Crypto life time when using SRTP
- Added configurable option to enable/disable Broadsoft Connected Line ID
- Added ability to customize dial tone when user does not enter any digit

BUG FIXES

- Fixed TX/RX low gain
- Fixed reboot device by unplugging network cable causes incoming IP call fail to establish
- Fixed GXW4248 has low audio gain and echo introduction compared to other GXW42xx models
- Fixed Number is lost in outgoing call
- Fixed web UI displays XXXXX
- Fixed crash issue with core voltage
- Fixed can retrieve any configuration value without authentication
- Fixed make a call with DUT and then DUT hangs up, another gateway device would hear echo 1s before busy tone
- Fixed when the third party is HT802 and the Vocoder is PCMA, no voice can be heard
- Fixed no prompt can be heard when HTTPS is selected via IVR
- Fixed DUT should change the IP on the LED once it gets a new one
- Fixed the copyright time on telnet is not consistent with the one on web UI
- Fixed all ports suddenly stops working
- Fixed the port doesn't work after the phone holds many times
- Fixed DUT does not prompt that "Device not registered" via IVR in Chinese
- Fixed SIP Registration Failure Retry Wait Time is fixed in 20 minutes when receiving 403 Forbidden
- Fixed attended transfer failure
- Fixed SIP NOTIFY with "check-sync;reboot=false" event should not reboot the gateway
- Fixed device loses the ring tone cadence configuration after reboot
- Fixed NAPTR/SRV configuration is not applied on the fly unless reboot
- Fixed incoming call following attended transfer by Netsapiens Proxy is automatically terminated by the device
- Fixed gateway cannot be provisioned using zero config if the UCM binds different port from 5060
- Fixed timezone selection does not include DST definition

- Fixed cannot perform a second call after making transfer between two ports registered with the same extension
- Fixed devices fail to re-register if/when SIP realm is changed
- Fixed some P values cannot be blocked using P9999
- Fixed DUT will not send out SUBSCRIBE request after enable 3CX Auto Provision
- Fixed hunting group on fly change has logic flaw
- Fixed attended transfer sometimes fails

Firmware Version 1.0.5.8

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: January 28, 2015

CHANGES SINCE FIRMWARE RELEASE 1.0.5.5

ENHANCEMENT

- Added support for NAT transfer feature
- Increased "Dial Plan" field length to 2048 digits

BUG FIXES

- Fixed crash issue with core dump
- Fixed missing P values when .txt or .xml configuration files are exported from the GXW
- Fixed device could get into a no dial tone state
- Fixed [TR-069] dateTime Type typo
- Fixed reset FXS port config from web GUI will disable FXS 1
- Fixed device rejected SIP reply from Outbound Proxy under some conditions
- Fixed Authenticate Conf File feature did not work
- Fixed could not set "Enable All" for "Enable Call Features" option in Profile2/3/4

Firmware Version 1.0.5.5

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: October 1, 2014

CHANGES SINCE FIRMWARE RELEASE 1.0.4.24

ENHANCEMENT

- Added passive SNMP support
- Added support for configurable star codes
- Added support for uploadable IVR packs
- Added support for XML configuration file download
- Added support for configurable TTL Value for Keep-Alive messages
- Added option "Enable Fast RFC2833" in web UI
- Added separate Tos/CoS settings for SIP and RTP
- Added support to announce registration number via feature code
- Added support for TTY/TDD
- Modified some options' value when display language on web UI is Chinese
- Added security table to factory sector to store certificate and private key
- Changed P-Asserted-Identity (PAI) header to P-Preferred-Identity (PPI) header in SIP INVITE
- Moved Download Configuration button under Upgrade and Provisioning web UI
- Added configurable RFC 3261 timer D length support
- Updated to latest data model + CPE 1.0.1.47

BUG FIXES

- Fixed device crashes under performance test
- Fixed if sending DTMF slightly faster via RFC2833, device does not send the end RTP event of DTMF
- Fixed device fails to handle multiple m lines in SDP correctly causing incoming call fail
- Fixed delay when registering to Failover Server
- Fixed if SRTP Mode set to Enabled and Forced, callee cannot hear anything right after off-hook
- Fixed even if P251 value is larger than P252, it can still be saved
- Fixed null dial plan can be saved and applied
- Fixed using inexpensive analog phones, sometimes there is ringing delay, or no ringing at all
- Fixed device port gets locked and has to be rebooted for the port to become operational again
- Fixed losing digits when sending out DTMF digits
- Fixed port 47 off-hook and on-hook constantly, after a while port 48 behaves the same under certain conditions
- Fixed SIP server and Outbound Proxy cannot be configured with host address like x.x.x.0
- Fixed sometimes couldn't make a call, but after a while device will work again
- Fixed one port cannot use, if off-hook can hear busy signal under certain conditions
- Fixed device registered to outside SIP server remotely, SIP server does not receive Register request
- Fixed network change while rebinding sockets will cause socket rebind infinite loop

Firmware Version 1.0.4.24

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: August 13, 2014

CHANGES SINCE FIRMWARE RELEASE 1.0.4.22

ENHANCEMENT

- Changed P-Asserted-Identity (PAI) header to P-Preferred-Identity (PPI) header in SIP INVITE
- Added support to play the registration number via *98 feature code

BUG FIXES

- Fixed GXW4248 low audio gain/Echo compared to other GXW42xx models
- Modified some web UI option value when display language on web page is Chinese
- Fixed with certain analog phones sometimes there is delayed ringing, or no ringing at all
- Fixed losing digits when sending out DTMF digits
- Fixed device fails to handle multiple m lines in SDP correctly causing incoming call fail
- Fixed delay when register to failover server
- Fixed system memory exhaustion in early media calls

Firmware Version 1.0.4.22

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

DATE: MAY 30, 2014

CHANGES SINCE FIRMWARE RELEASE 1.0.4.17

ENHANCEMENT

- Added option "Do Not Escape '#' as %23 in SIP URI" in web UI
- Added TR-069 ACS Discovery Support
- Added G722 WB support
- Added support to display CPE version in Web UI status page
- Added support to allow up to 256 characters in config server path
- Added support for Distinctive ringtones using Alert-info string
- New CPE version 1.0.1.44

BUG FIXES

- Fixed device fails to handle multiple m lines in SDP correctly causing incoming call fail
- Fixed HTTP GET provisioning request displays HTTP username/password in plain text. Added web UI option "Always Authenticate Before Challenge"
- Fixed TR-069: add Keep-alive Interval in Parameter tree
- Fixed TR-069: Firmware upgrade using HTTPS with authentication fail
- Fixed TR-069: Parameter Tree error
- Fixed GXW4248: (TR069) in parameter tree only have 32 lines
- Fixed STUN call has no RTP
- Fixed default IP configuration issue
- Fixed GXW4224/GXW4248 - Ports will "hang" after some time
- Fixed TR-069: Gain parameters not positioned correctly in data model
- Fixed device crashes randomly in all ports, no dial tone in any port
- Fixed if P143 is set to No with DHCP OPTION 2 device still accepts the time offset
- Fixed Caller ID Issue
- Fixed port stuck during T.38 fax
- Fixed device adds SUBSCRIBES messages to multicast address from AA product
- Fixed Metaswitch interop: Blind transfer fail, then reconnect
- Fixed device gets into reboot loop
- Fixed after downloading config file from customers server, device became dead after 2 days
- Fixed TR-069: Each account under Session the sub-tree lost data
- Fixed TR-069: Voice Profile node 2/3/4 Line tree node sub-tree missing data
- Fixed TR-069: A still send syslog information when Syslog Level is none
- Fixed device cannot handle SIP message with contact header whose contact-URI does not have angle brackets surrounding it

Firmware Version 1.0.4.17

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: December 19, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.15

ENHANCEMENT

- Added support for ping/traceroute tools for network connectivity
- Added support to send SUBSCRIBE messages to multicast address

BUG FIXES

- Fixed applying the Payload Type value will not take effect without reboot
- Fixed Call Waiting using PCMU while device is forced to use PCMA
- Fixed device sends REGISTER requests to Failover SIP Server even though it has successfully registered to Primary SIP Server
- Fixed crash issue caused by SUBSCRIBE for MWI

Firmware Version 1.0.4.15

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: December 4, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.9

ENHANCEMENT

- Added support to use SIP request URI user ID for outgoing calls

- Added option when using DID to call, the From header is DID number
- Added three new IVRs: ◦ Device not registered
- Internet service is down...
- Cable unplugged...

BUG FIXES

- Fixed device sent re-register request every 20 seconds after server responded 403
- Fixed Dial Tone cadence did not change
- Fixed TR069 - after upgrade via ACS cannot upgrade via web UI
- Fixed when DNS server and gateway are unreachable, device on/off hook detection will be delayed by 20s during DNS request period
- Fixed cannot dial 0 when using pulse dialing
- Fixed when device is caller it didn't send Comfort Noise
- Fixed register expiration issue

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Firmware Version 1.0.4.9

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: September 6, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.7

BUG FIXES

- Fixed in basic call, after hold and unhold, device repeats sending ReINVITE
- Fixed rebooting device fails to download bbd
- Fixed device crash issue related to STUN
- Fixed BroadSoft interop: device cannot switch between two lines after receiving NOTIFY
- Fixed the LED does not blink while downloading XML config file
- Fixed English and Chinese translation issue
- Fixed changing Hunting Group type does not take effect for the first call
- Fixed if unplugged network cable then reboot, device uses 192.168.254.2 as DNS server
- Fixed device crash issue associated with changing SIP transport during server failover DNS process
- Fixed IP mode mismatch issue as a result of changing IP mode via IVR then disconnect and reconnect network cable
- Fix a memory leak issue related to MWI and phone in offhook state
- Fixed GXW4232 FXS port becomes inactive after performance tests for 5 days
- Fixed BroadSoft interop: device fails to play local ring-back tone and fails to deliver CID when use # key as dial key
- Fixed "Copyright © Grandstream Networks, Inc. 2013. All Rights Reserved." was not translated into Spanish for Spanish language display
- Fixed device does not use Backup IP to register with SIP over TCP/TLS
- Fixed device creates extra call object leading to one channel stuck in CALL_ENDING causing no more incoming phone call unless device off/on hook
- Fixed device does not reboot after upgrading if network cable was unplugged

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Firmware Version 1.0.4.7

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: August 9, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.4

ENHANCEMENT

- Added LLDP Support
- New P value for LLDP support P1684 - Enable LLDP
- Added support for receiving TCP/TLS "\r\n" keep-alive messages

BUG FIXES

- Fixed DUT ringing doesn't timeout
- Fixed Hook status show Not Registered
- Fixed Change the Enable Hook Flash value cannot come into effect without reboot
- Fixed Cannot change Use Configured IP without reboot
- Fixed Some settings cannot come into effect if not saving and applying with another values
- Fixed Preferred Vocoder 7/8 cannot take effect without reboot
- Fixed Device does not follow record route header route
- Fixed Change the vocoder via IVR cannot come into effect in new profile
- Fixed outgoing call with enable use configured IP cause crash
- Fixed oSIP bug that the port in a response is not set properly if not explicitly specified in the Via header for TLS transport
- Fixed TLS block read issue where the read may not return the complete message
- Fixed Display language not translate into Chinese/French/Spanish
- Fixed LLDP default value is different between factory reset and reset via web UI
- Fixed Enable Call Features error in Chinese translation
- Fixed Factory reset via telnet have no reboot info
- Fixed Enable provider lock via config file need to reboot to take effect
- Fixed Make an anonymous call under TLS mode can cause CPU usage high

Firmware Version 1.0.4.4

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: June 28, 2013

SUMMARY OF UPDATES

The main purpose of this release is additional features implementing and addressing stability issues observed in previous releases.

CHANGES SINCE FIRMWARE RELEASE 1.0.3.9

ENHANCEMENT

- Added support for call routing based on SIP request URI user ID
- Added support to display Connected Line ID
- Added support for ASCII in DID field
- Added support to set LCD language from the web UI under system features
- Added support for compact session timer header
- Added support for LCD GUI
- Added option to disable SIP NOTIFY Authentication
- Added support for interrupt driven FAN failure control
- Added support to reset only Basic Settings values via
- Added LLDP support
- Added support for factory reset in recovery mode
- Added support for Chinese + Spanish + French Web UI
- Added VLAN support
- Added support to authenticate incoming INVITE
- Added support to reboot via SIP NOTIFY
- Added support for upgrading second bootloader via single image file

BUG FIXES

- Fixed Dial plan does not allow \$ and P signs
- Fixed Broadsoft Interop: Connected Line ID is not updated after Call Transfer or Call Forward
- Fixed Broadsoft Interop: device does not update "anonymous" with "Privacy:id"

- Fixed BroadSoft Interop: device fails to handle INVITE with Diversion Inhibitor
- Fixed BroadSoft Interop: REGISTER Failback is not send to the primary server
- Fixed BroadSoft Interop: fax pass-through fails with re-INVITE
- Fixed device does not parse the SDP included in the 181 message
- Fixed Offhook Autodial allows invalid input
- Fixed Dial Plan does not accept ABCD
- Fixed Time Zone via reset button does not reset to default value
- Fixed call between force enable SRTP and disable SRTP have one way audio
- Fixed Spanish and French Web UI words display error
- Fixed device cannot boot up without network connection
- Fixed LCD back light does not work

Firmware Release Notes

Firmware Version 1.0.3.9

Product Name: GXW4216/GXW4224/GXW4232/GXW4248

Date: June 6, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.0.51

ENHANCEMENT

- Added VLAN support
- Added Spanish, French and Chinese language support
- Added support to display Connected Line ID
- Added support to authenticate incoming INVITE
- Added LCD GUI
- Added support to reboot device via SIP NOTIFY

BUG FIXES

- Fixed web browser compatible issues
- Fixed firmware/Config file Prefix/Suffix do not accept special characters
- Fixed unit cannot boot up without network connection
- Fixed TX/RX gain to indicate audio between the FXS and the network and remove ambiguity
- Fixed setting value to blank via xml file causes device crash
- Fixed fax return to call issue
- Fixed noise on hold under special scenario
- Fixed Use Configured IP cannot set domain name and IP+port
- Fixed cfg file provisioning causes device reboots
- Fixed recovery mode issues
- Fixed BroadSoft special feature issues
- Fixed fax pass-through issue
- Fixed callee ringing timeout causes device crash
- Fixed iLBC payload type in 127 has no audio
- Fixed ringing does not timeout
- Fixed IP call causes device crash
- Fixed no IVR issue
- Fixed dial plan { [*x#]+ } causes call feature function fails
- Fixed Hunting Group setting issue
- Fixed in call flash causes device crash