GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.3.13**
Product Model: **GXV3500**

(Boot: 1.0.0.1; Core: 1.0.3.13; Base: 1.0.3.13; Prog1: 1.0.3.13; Prog2: 1.0.3.13)

HW Supported: **V1.0, V1.1A, V1.2A, V1.2B, V1.2C**

Date: **June 23, 2021**

SUMMARY OF UPDATES

The main purpose of this release is bug fixes for **ITSPs, ONLY**

CHANGES SINCE FIRMWARE RELEASE 1.0.3.12

BUG FIXES

- Fixed ONVIF compatibility issue
GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.3.12**
Product Model: **GXV3500**
(Boot: 1.0.0.1; Core: 1.0.3.12; Base: 1.0.3.12; Prog1: 1.0.3.12; Prog2: 1.0.3.12)
HW Supported: V1.0, V1.1A, V1.2A, V1.2B, V1.2C

Date: **April 16, 2021**

**SUMMARY OF UPDATES**

The main purpose of this release is feature enhancement and bug fixes for **ITSPs, ONLY**

**NOTE:**

- From this release the firmware will include two hardware versions: New 1G V1.2C hardware and all previous 512M hardware (V1.0, V1.1A, V1.2A, V1.2B)
- V1.2C cannot be downgraded to any previous firmware

**CHANGES SINCE FIRMWARE RELEASE 1.0.3.10**

**ENHANCEMENT**

- Added “Auto-Answer After Ring Timeout” as an option in “Answer Mode”
- Added configurable option to specify “DNS Cache Expiration Time(m)” for ITSP (Telefonica)
- Added ability to adjust audio volume settings in SIP Phone Mode for ITSP (Telefonica)
- Support 1G Flash hardware V1.2C

**BUG FIXES**

- Fixed “Current System Time” displaying error.
- Fixed noise when turn on intercom and audio.

**NEW P VALUES**

- P4208: DNS Cache Expiration Time (Value: 1 ~ 1440, Minutes)
- P28160: DNS Cache Duration (Value: 0 ~ 1440, Minutes)
MODIFIED P VALUES

- P14580: Answer Mode (Value: 0 - Auto Answer; 1 – Ring; 2 – Auto Answer After Ring Timeout)
- P14847: Ring Timeout (Value: 2 ~ 300, Seconds)

NEW STRINGS

- DNS Cache Expiration Time
- DNS Cache Duration
- Auto-Answer After Ring Timeout
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.3.10
Product Model: GXV3500
(Boot: 1.0.0.1; Core: 1.0.3.10; Base: 1.0.3.10; Prog1: 1.0.3.10; Prog2: 1.0.3.10)
HW Supported: V1.0; 1.1A, 1.2A, 1.2B

Date: October 28, 2020

SUMMARY OF UPDATES

The main purpose of this release is feature enhancement and bug fixes for ITSPs, ONLY

CHANGES SINCE FIRMWARE RELEASE 1.0.3.9

ENHANCEMENT

• Added ability to trigger alarm out under PA mode [Telefonica Spain].
• Added incoming call to open door activated when the call in the ringing stage [Telefonica Spain].

BUG FIXES

• Fixed Alarm_Out type and status not changed via HTTP API.

NEW P VALUES

• P15526: Basic_Settings.SIP.Activate_Alarm_Out_Upon_Incoming_Call
  (Value: 0/1; 0:Disable 1:Enable)

MODIFIED P VALUES

• P10458: Basic_Settings.SIP.Delay_Lock_Time
  (Value: 0/1/2/3/4/5/10/15/20/25/30/40/50/60)

NEW STRINGS

• Activate Alarm Out upon incoming call
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.3.9
Product Model: GXV3500
(Boot: 1.0.0.1; Core: 1.0.3.9; Base: 1.0.3.9; Prog1: 1.0.3.9; Prog2: 1.0.3.9)
HW Supported: V1.0; 1.1A, 1.2A

Date: March 26, 2020

SUMMARY OF UPDATES

The main purpose of this release is bug fixes for ITSPs, ONLY

CHANGES SINCE FIRMWARE RELEASE 1.0.3.6

BUG FIXES

• Fixed device not auto reboot after downloading all firmware files
• Fixed MJPEG video stream will stop after a random time
• Fixed database fetching error after pressing button to perform factory reset
• Fixed provisioning via HTTPS not working over Telefonica Server
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.3.6
Product Model: GXV3500

(Boot: 1.0.0.1; Core: 1.0.3.6; Base: 1.0.3.6; Prog1: 1.0.3.6; Prog2: 1.0.3.6)

HW Supported: V1.0; 1.1A, 1.2A

Date: December 20, 2019

SUMMARY OF UPDATES

The main purpose of this release is bug fixes and feature enhancement for ITSPs, ONLY

CHANGES SINCE FIRMWARE RELEASE 1.0.3.3

BUG FIXES

• Fixed Option 66 upgrade failed.
• Fixed disable web access then recovery would not return to default value.
• Fixed DST rules not applied via provisioning.
• Fixed SIP Open Door Mode the P value cannot be set.
• Fixed CFG file request using upper case letters.
• Fixed device not contact NTP server specified on Option 42.

ENHANCEMENT

• Added support for VLAN
• Added support for failover mechanism based on DNS SRV.
• Added support for HTTPS web access.
• Added option to Enable/Disable HTTP web access.
• Added support to switch between Encoding and Decoding Mode via P value provisioning.
• Added support for alarm out pattern.
• Added SIP accounting settings the similar P values between Encoding and Decoding Mode.
NEW P VALUES

• P15511: Encode/Decode Switching (value: 0:Encode 1:Decode)

MODIFIED P VALUES

• P1414: Maintenance: 3CX_Auto_Provision (Value: 0 – Disable; 1 – Enable)
GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.3.3**
Product Model: **GXV3500**

(Boot: 1.0.0.1; Core: 1.0.3.3; Base: 1.0.3.3; Prog1: 1.0.3.3; Prog2: 1.0.3.3)

HW Supported: **V1.0; 1.1A, 1.2A**

Date: **August 26, 2019**

SUMMARY OF UPDATES

The main purpose of this release is **ITSP Feature Enhancement** for **GXV3500, Only**

CHANGES SINCE FIRMWARE RELEASE 1.0.2.1

ENHANCEMENT

- Added schedule for firmware upgrade and provisioning
- Added ability to enable multiple audio codecs simultaneously and specify priority of codecs
- Added support to validate server certificate
- Added support for VLAN
- Added support for "Voice Frame per TX" on audio settings
- Added support for unique X.509 certificate
- Increased the "Ring Timeout" limit to 5 minutes
- Added support for alarm out pattern
- Added support for “Reregister before Expiration” option
- Added support for failover mechanism based on DNS SRV
- Added support HTTPS Web access
- Added ability to disable 3CX PnP feature
NEW P VALUES

- P78: SIP.Use_Random_Port (value: 0:Disable 1:Enable)
- P15510: System.Alarm_Out_Pattern (s) (value: 0/1/2/3, default 0)
- P12054: Networking.Web_Access_Mode (value: 0:HTTP 1:HTTPS, default 0)
- P58: SIP.Preferred_Vocoder_2 (value: 0:PCMU 1:PCMA, default 0)
- P486: SIP.Voice_Frames_Per_TX (value: 1-64, default 2)
- P2430: SIP.Re-register_before_Expiration(s) (value: 0-64800, default 0)
- P424: SIP.Special_Feature (value: 100:Standard 102:Broadsoft 129:Telefonica Spain, default 100)
- P8458: Maintenance.Randomized_Automatic_Upgrade (value: 0:Disable 1:Enable)
- P8459: Maintenance.Hour_of_the_Day_End (value: 0-23)
- P286: Maintenance.Day_of_the_Week (value: 0-6)
- P8433: Certificates.Trusted_CA_Certificate_1 (value: string)
- P8434: Certificates.Trusted_CA_Certificate_2 (value: string)
- P8435: Certificates.Trusted_CA_Certificate_3 (value: string)
- P8436: Certificates.Trusted_CA_Certificate_4 (value: string)
- P8437: Certificates.Trusted_CA_Certificate_5 (value: string)
- P8438: Certificates.Trusted_CA_Certificate_6 (value: string)
- P8475: Certificates.Custom_Certificate (value: string)

EMODIFIED P VALUES

- P194: Maintenance: Automatic_Upgrade (Value: 0:No; 1:Yes, check for every xx minute; 2:Yes, check for every day; 3:Yes, check for every week)
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.2.1
Product Model: GXV3500
(Boot: 1.0.0.1; Core: 1.0.2.1; Base: 1.0.2.1; Prog1: 1.0.2.1; Prog2: 1.0.2.1)

Date: August 1, 2019

SUMMARY OF UPDATES
The main purpose of this release is feature enhancement for GXV3500, Only

CHANGES SINCE FIRMWARE RELEASE 1.0.1.98

ENHANCEMENT

• Added support for new Grandstream MAC block C0:74:AD
Firmware Release Notes: **Version 1.0.1.98**
Product Model: **GXV3500**
  *(Boot: 1.0.0.0; Core: 1.0.1.98; Base: 1.0.1.98; Prog1: 1.0.1.98; Prog2: 1.0.1.98)*

Date: **April 26, 2019**

**SUMMARY OF UPDATES**
The main purpose of this release is bug fix and feature enhancement for **GXV3500, Only**

**CHANGES SINCE FIRMWARE RELEASE 1.0.1.97**

**BUG FIX**
- Fixed SIP password not taking special characters like “$”
- Fixed not reply to SIP INVITE message if Alert-Info Header included

**ENHANCEMENT**
- Added support for DHCP Option 66
- Added support for DNS SRV
GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.1.97**

Product Model: **GXV3500**

(Boot: 1.0.0.0; Core: 1.0.1.97; Base: 1.0.1.97; Prog1: 1.0.1.97; Prog2: 1.0.1.97)

Date: **November 12, 2018**

SUMMARY OF UPDATES

The main purpose of this release is bug fix and feature enhancement for **GXV3500, Only**

CHANGES SINCE FIRMWARE RELEASE 1.0.1.95

**BUG FIX**

- Fixed Snapshot URL Broken: [http://cameraIP/snapshot/view0.jpg](http://cameraIP/snapshot/view0.jpg)

**ENHANCEMENT**

- Added activating alarm out directly upon receiving SIP call
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.1.95
Product Model: GXV3500
(Boot: 1.0.0.0; Core: 1.0.1.95; Base: 1.0.1.95; Prog1: 1.0.1.95; Prog2: 1.0.1.95)
Date: May 26, 2016

SUMMARY OF UPDATES
The main purpose of this release is enhancement for GXV3500, Only

CHANGES SINCE FIRMWARE RELEASE 1.0.1.94

ENHANCEMENTS

- Changed the WEB UI color tone to dark blue and updated the Logo.
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.1.94
Product Model: GXV3500
(Boot: 1.0.0.0; Core: 1.0.1.94; Base: 1.0.1.94; Prog1: 1.0.1.94; Prog2: 1.0.1.94)
Date: April 28, 2016

SUMMARY OF UPDATES
The main purpose of this release is feature implementation for GXV3500, Only

CHANGES SINCE FIRMWARE RELEASE 1.0.1.93

ENHANCEMENTS

• Added displaying black screen to external monitor/TV when network is disconnected.
GRANDSTREAM NETWORKS

Firmware Release Notes: Version 1.0.1.93
Product Model: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD
Date: November 16, 2015

SUMMARY OF UPDATES
The main purpose of this release is bug fixes and additional feature implementation.

CHANGES SINCE FIRMWARE RELEASE 1.0.1.92

BUG FIXES

• Fixed GXV3500 forcing input user ID and password when streaming RTSP URL.
• Removed AAC

NOTE

• Last FW for GXV3651FHD and GXV3662HD
• Last FW for GXV3672_HD/FHD V1. Will continue support and release V2 firmware.
Firmware Release Notes: Version 1.0.1.92
Product Model: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD
Date: September 10, 2015

SUMMARY OF UPDATES
The main purpose of this release is bug fixes and additional feature implementation.

CHANGES SINCE FIRMWARE RELEASE 1.0.1.91

BUG FIXES

• Fixed FTP user name truncated when exceeding specific character length.
• Fixed GXV3651FHD will not return actual snapshot from 1st request when maximum resolution used.
• Fixed ONVIF profile creation with wrong token name.
• Fixed GXV3500 POST command to request the output audio talk.
• Fixed critical Telnet security exploit that password can be revised using special string.
• Fixed GVR355x talk function failed when IP camera audio configuration set to disable.
• Fixed Chrome browser tips “page no response” when using Playback function to playback video files.
• Fixed using Playback Tools at the local configuration webpage would crash Firefox browser.

ENHANCEMENTS

• Added Motion Detection Trigger Control Settings for GXV3662_HD and GXV3662_FHD.
SUMMARY OF UPDATES
The main purpose of this release is bug fixes and additional feature implementation.

CHANGES SINCE FIRMWARE RELEASE 1.0.1.90

BUG FIXES

- Fixed GXV361x camera cannot auto answer in a paging group.
- Fixed TELNET security issue, user with viewer privilege able to factory reset the device.
- Fixed ONVIF Profile 0/1 included false fixed token.
- Fixed ONVIF connection would fail if the username of IPC with more than 20 Chinese characters.
- Fixed ONVIF “GetSystemDateTime” error in the returned value.
- Fixed WebControl issue that user cannot change the recording file path and always using default path with Firefox/Chrome browser.
- Fixed WebControl issue that capture folder name cannot be revised or adjusted.
- Fixed SIP number truncated if SIP phone number more than 15 characters.
- Fixed typo in the plugin “Videoplugine.exe”.
- Fixed cannot set static IP without DNS configured.
- Fixed GXV3651FHD the name of SSID is not correct.
- Fixed GXV3615WP_HD cannot save by prompt “save failed” when 2nd stream resolution set to 160*112.
- Fixed changing IP address from DHCP to Static via “GS_Search” tool, the device will revert back to previous IP after a while.

ENHANCEMENTS

- Added option to upload JPEG images into subfolder by dates.
- Revised WebGUI wording from “Enable two-way audio warning mode” to “Enable two-way SIP calling”.
- AVI file format will be used for WebControl recording, playback tool, and compliant with old h.264 format
- Security enhancement: Disable TELNET function by default.
- Delete the word “Remove” in SIP Web Setting Page.
- Added ONVIF support of set Preset Name include “”.
- Improve ONVIF system time setting and system web page by adding WebGUI for ONVIF time zone
Firmware Release Notes:  **Version 1.0.1.90**  
Product Model: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD  
Date: December 11, 2014

**SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

**CHANGES SINCE FIRMWARE RELEASE 1.0.1.89**

**BUG FIXES**

- Fixed recorded MD video still included audio even disabled.
- Fixed GXV3500 display white screen on TV output.
- Resolved GVR3550 compatibility issue via ONVIF or encode config.
- Fixed when audio format set to AAC the two-way audio becomes abnormal.
- Fixed ONVIF will cause GXV3500 network and time information displayed abnormal.
- Fixed GVR3550 using XML file to update GXV3615WP_HD could crash the device.
- Fixed GXV3615WP_HD steam output intermit broken when GVR3550 or GSurf_Pro using XML to configure the device on the fly.
- Fixed GXV3615WP_HD factory reset after XML provisioning will have abnormal webGUI display.
- Fixed Alarm Record and JPEG upload to FTP the resolution is 1920x1088 when configured as 1920x1080.
- Fixed abnormal Alarm Event action when configure “Email and FTP upload JPEG and Store it to USB card or SD driver” in related camera models.

**ENHANCEMENTS**

- Improve and support SIP Open Door Key with 1 digit as minimum.
- Respond to HTTP polling requests for Motion [Synology IOT]
- Added Time Lapse Recording Feature
- Enable UPnP Discovery by default
- ePTZ revision: when ePTZ configured, both streams will be applied to ePTZ resolution.
- Added stream recording option for local recording of GXV3615WP_HD.
- Added QVGA resolution to primary stream of GXV3615WP_HD.
- Revised NTP update interval to new default value as 60 minutes.
SUMMARY OF UPDATES
The main purpose of this release is bug fixes and additional feature implementation.

CHANGES SINCE FIRMWARE RELEASE 1.0.1.88

BUG FIXES

• Fixed FTP not working with some specific server. (e.g.: Vodafone)
• Fixed GXV3500 delayed response to PTZ commands.
• Removed ALLO command in FTP implementation.
• Fixed audio using AAC codec, the MJPEG video stream fail. (e.g.: http://IP_Addr/mjpeg/mjpeg4.html)
• Fixed issue “Viewer” user able to get to some setting page.
• Fixed webGUI fail to access if wrong email address, HTTP or SMTP port both configured same. (e.g.: TCP465)
• Fixed GXV3672_HD/FHD not return “error” information when opening the “talk” feature.
• Fixed no related “P Values” to control the TELNET and UPnP enable and disable.

ENHANCEMENTS

• Improved GXV3615WP_HD 2nd stream image quality with revised algorithm and new default value.
• Supported ONVIF “use sync point” to enforce the IPC to add an I-Frame.
• Improved ONVIF response speed (Onvif_Port = Web_port + 8000).
• Added image quality option for MJPEG.
• Improved DST webGUI, synchronized with GS Phones and more user friendly.
• Improved with more user friendly Motion Detection Setting webGUI.
• Added TELNET enable/disable choice.
• Added UPnP enable/disable choice.
• Added ONVIF Alarm Input Notification.
Firmware Release Notes:  **Version 1.0.1.88**  
Product Model: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD  
Date: **May 6, 2014**

**SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

**CHANGES SINCE FIRMWARE RELEASE 1.0.1.87**

**BUG FIXES**

- Fixed wrong MIME type at email notification.
- Fixed lost image details or view angle when selecting different resolution.
- Fixed GXV3500 slow boot up when configured as Encode Mode.
- Fixed GXV3500 audio delay when using PCMU.
- Fixed security issue of able to add administration account w/o authentication via ONVIF.
- Fixed security issue of able to retrieve camera information w/o authentication.
- Fixed preset new name cannot be saved via ONVIF.
- Fixed GXV3662HD web page loading error therefore cannot access webGUI occasionally.
- Fixed GXV3651FHD PPPoE function not working.

**ENHANCEMENTS**

- Added WebGUI hints that if both streams using MJPEG, Motion Detection will not take effect.
- Added MJPEG stream will be displayed at Safari on iOS/OS-X:  
  (New URL:  [http://IP_IPC/mjpeg/mjpegX.html](http://IP_IPC/mjpeg/mjpegX.html)  
  X=0, 4.  0: 1st stream;  4: 2nd stream).
- Added MD zone variable to be used for the Alarm HTTP Server.
- Added NTP update interval option.
- Added alarm output duration in GXV3500
- Added disable TELNET option.
- ONVIF: provide motion detection notification.
- Improve NTP setting WebGUI.
Firmware Release Notes: **Version 1.0.1.87**  
Product Name: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD  
Date: February 28, 2014

**SUMMARY OF UPDATES**  
The main purpose of this release is bug fixes and additional feature implementation.

**CHANGES SINCE FIRMWARE RELEASE 1.0.1.86**

**BUG FIXES**
- Fixed image overexposure when shutter speed set to Auto.  
- Fixed false Motion Detection Alarm triggered by IR_Cut filter switching.  
- Fixed when AAC as audio codec some P value cannot be write into via configuration file.  
- Fixed GXV3615_FHD SIP status displayed wrong in the status page.  
- Fixed Time Zone not working for some half time zone like Venezuela.  
- Fixed WebGUI might not be accessible after using HTTP API commands over 1000 times.  
- Fixed SIP setting page white list number beginning with empty space cannot be deleted.

**ENHANCEMENTS**
- Improved confusing MJPEG setting in WebGUI.  
- Device name displayed on DHCP Option 66.  
- ONVIF conformant optimization.
Firmware Release Notes: **Version 1.0.1.86**  
Product Name: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD  
Date: *December 20, 2013*

**SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

**CHANGES SINCE FIRMWARE RELEASE 1.0.1.84**

**BUG FIXES**

- Fixed some models of IP Cameras cannot make SIP call without registration with SIP server (fixed direct IP calls or Peering calls not working with static IP)
- Fixed no audio from microphone if using VLC playing video stream for more than 3 hours.
- Fixed Alarm Event the snapshot photo cannot be uploaded to Alarm Server.
- Fixed GXV3615WP_HD when configured 1st stream resolution to 1024x768 or above, the video displayed in WebGUI is not smooth, but OK when replayed from recording.
- Fixed GXV3500 in decoder mode SIP account cannot be registered without reboot.
- Fixed previous f/w when primary stream using MJPEG, alarm video cannot be selected but can be configured to recording the video by event.
- Fixed Alarm Video scrambled therefore when replay using VLC it will prompt “file damaged, want to repair?” to repair the file before playing the recorded video.
- Fixed HTTP Alarm MSG upload if containing “alarm_type=%d”, the request will automatically convert “%d” to the related alarm type and upload to server. If no such string then no alarm type will be included to the uploaded Alarm MSG.

**ENHANCEMENTS**

- Allow GXV3500 decoder to user /0 if /0 or /4 is not specified.
- Added motion detection captures with pre/post alarm snapshots.
- Added GXV3500 decoder mode to use its Alarm_Out interface to work for another GS IP camera like GXV3672_HD/FHD or GXV3610_HD/FHD
- Changed the default value of I frame to 80 for better video quality.
Firmware Release Notes: Version 1.0.1.84
Product Name: GXV3500, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD
Date: October 18, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.1.83

BUG FIXES

- [QNAP IOT] Camera returns Invalid when setting MJPEG frame rate via HTTP API
- GXV3672_FHD: Image distortion in Day mode
- Fixed cross site scripting vulnerability.
- GXV3651FHD: Snapshot via HTTP API shows strips
- GXV3651Fhd on V1.0.1.83: Black screen at max resolution
- GAPS provisioning: Corrected P212 value for surveillance products
- GXV3662HD get stuck in closing a file on SD Card
- GXV3672HD V1.0.1.77: The device did not respond to messages from website so the device cannot be accessed.
- GXV3500 will crash to decode stream with HD resolution and require reboot to recover.
- The audio output delay when switch between primary and secondary stream.
- There are some problems with initial hang up when the device do IP dialing.
- GXV3651FHD: WIFI search cannot get SSID.
- GXV3672FHD: When setting up device for a custom time zone, the device cannot enter/exit daylight saving time.
- GXV3672FHD: Switch resolution and alarm to phone will cause device to reboot.
- GXV3615WP_HD: Monitoring interval for scheduled video recording time is incorrect and generates an invalid AVI file.
- GXV3615WP_HD: Factory reset through Web GUI will cause the WIFI page to display incorrectly.

ENHANCEMENTS

- GXV3651FHD: Add option to choose NTSC/PAL video setting
- GXV36xx: Easier to read on screen display
- GXV3500: Add the ability to decode HTTP video stream
- Add variable to be used for the Alarm HTTP Server
- GXV3500: Enable use of alarm in when device is in Decode mode
- WebUI: Add a switch to manually turn on/off the DO
Firmware Release Notes: Version 1.0.1.83
Product Name: GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD
Date: September 20, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.1.82

BUG FIXES

- Fixed GXV36XX cannot specify port of STUN server
- Default specified region and alarm icon flashing red whenever motion detection enabled and configured.
- Fixed cross site scripting vulnerability.
- Fixed webpage should only display Video as Audio not supported at GXV3672_HD/FHD

ENHANCEMENTS

- Added disable pre/post alarm JPEG option
- Put back GXV3500 Grandstream brand camera previous mode as Encoder
- Added WebGUI indication at “Live Storage” page when SD card is in usage.
- Customized JPEGs on alarm email attachment.
- Optimized processing and CPU loading.
- Default FHD model to 1080p @ 4Mbps.

Firmware Release Notes
Product Name / Firmware Version: GXV3651FHD/1.0.1.82
Date: July 9, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.1.81

BUG FIXES

- Modified GXV3500 decoder WEB UI
- Fixed cannot upload the alarm picture to FTP server and mailbox

ENHANCEMENTS

- Added support to apply SIP config changes without reboot
BUG FIXES

- Fixed delay in generating snapshots
- Fixed [Mirasys IOT]: Setting ONVIF EncondingInterval parameter has no effect
- Fixed supercmd access vulnerability
- Fixed stream not displayed on VLC after a period of time

ENHANCEMENTS

- Added support to customize JPEGs on alarm email attachment
- Added support to change the admin password via provisioning file
- Added UPnP Discovery support
- Added support for SSDP protocol to find IPC on the network
- Added support for camera address offset for Pelco P/D protocol

CHANGES SINCE FIRMWARE RELEASE 1.0.1.71

BUG FIXES

- Fixed device advertises wrong media port after receiving re-invite without SDP
- Fixed wrong behavior after receiving 181 SIP message on GXV3500
- Fixed video stream not displayed on VLC after a period of time
- Fixed checking the upload HTTP server will affect motion detection module
- Fixed connection information in media level was ignored
- Fixed ONVIF conformance test issues on ONVIF test tool V12.06
- Fixed SIP warning call doesn’t play alarm whistle after disable the warning audio mode on Asterisk
- Fixed after factory reset, language was restored to normal
- Fixed after factory reset, customized audio cannot be restored
- Fixed sip_client process is blocked and SIP call feature doesn’t work with customized alarm file
- Fixed with outdoor mode, video stream jump frame, both live view and record
- Fixed image picture was partially red
- Fixed check Email and FTP upload JPEG snapshot, trigger the alarm, video stream will be disconnect or device reboots itself

ENHANCEMENTS

- Add an option to adjust live view stream performance
- Added an option to select "sendonly" and "sendrecv" for video in INVITE
- Added an option to adjust live view stream performance
- Optimized the process for alarm audio play
- Improved GXV3672HD_FHD IR night vision

=================================================================================================================================
Firmware Version: 1.0.1.71
Product Name: GXV3500/GXV3615WP_HD/GXV3662HD-FHD/GXV3651FHD/GXV3672HD-FHD
Date: February 26, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.1.68

BUG FIXES

- Fixed continuous recording issue with SD/USB
- Fixed after rebooting the device, audio out volume becomes max value
- Fixed user doesn’t know the status of customized warning audio, added a label to display the status
- Fixed when deleting the customized audio, there is no pop-up window to prompt user
- Fixed after configuration file “metadata.conf” gets lost after doing hard reset on the device
- Fixed after receiving a “404 Not Found” message, device does not call the second phone number on the list
- Fixed “Segmentation fault” issue when XML configuration file contains an invalid option
- Fixed time zone if updated via P value does take effect
- Fixed SIP account cannot register if SIP server does not support unregister
- Fixed when "Automatic Upgrade" is disabled, device still sends out requests for provisioning
- Fixed if time zone is set as GMT-4:30, device will delay 30 minutes
- Fixed Decode mode, 3500 is not able to display video of GXV3175/3140
- Fixed after modifying IP settings via search tool, live view stream will be disconnected
- Fixed after plugging in an USB storage device, web page cannot display the warning uploaded files
- Fixed GXV3651FHD wifi SSID list displays abnormally
- Fixed GXV3615WP_HD after SIP account is registered, then use the search tool to modify devices’ IP, camera and IP phones could not set up calls
- Fixed GXV3651FHD cannot update the max FPS via P value provisioning, when resolution is set as 1920*1080&1600*1200

ENHANCEMENTS

- Added support to uploading customized voice message for SIP alarm calls
- Added support of customizing email notification for motion detection
- Added support of using the phone list as a serial hunting group
- Added support of MJPEG codec with limited FPS
- Improved auto white balance feature to make it work better under different light conditions
- Improved night vision algorithm to reduce noise

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Firmware Version: 1.0.1.68 (1.0.1.69 for GXV3672_FHD)
Product Name: GXV3500/GXV3615WP_HD/GXV3662HD-FHD/GXV3651FHD/GXV3672HD-FHD
Date: January 30, 2013

BUG FIXES

- Fixed phone number in SIP not accepting * (star) and letters.
• Fixed SMTP HELO/EHLO message not binding RFC2821 format.
• QNAP IOT video stream distortion with MJPEG format.
• Fixed audio codec disabled but still have audio from PC web interface.
• Fixed audio codec as AAC, connect camera via VLC no audio issue.
• Fixed not provisioning when "Automatic Upgrade" disabled.

ENHANCEMENTS

• GXV3651FHD very low microphone sensitivity.
• Alarm phone list option as a serial hunting group (new products only)
• Allow customized motion detection alarm email (new products only)
• Added P value for mass provisioning.
• Added EPTZ function.
• Revised some default values (like CMOS) for better usability.
• Added Venezuela time zone.
• Fine tune and improved video quality.

KNOWN ISSUE

• Time zone update via P value not working.
• XML provisioning file with illegal characters like "=" will make the device in reboot loop.

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Firmware Version 1.0.1.60
Product Name: GXV3500/GXV3615WP_HD/GXV3662HD/GXV3651FHD
Date: May 16, 2012

SUMMARY OF UPDATES

The main purpose of this release is bug fixing, additional feature implementing and stability issue addressing in previous release.

CHANGES SINCE FIRMWARE RELEASE GXV3662HD/ GXV3651FHD 1.0.1.57, ADDED NEW PRODUCTS
GXV3500 AND GXV3615WP_HD

BUG FIXES

• Fixed GXV3662HD homepage brightness, contrast during IRCut switch, in some extreme light conditions with probability of value overflow, leading white screen
• Fixed GXV3500 decoder mode using search tool to modify IP causing abnormal decoding
• Fixed GXV3615WP_HD when enabled motion detection and alarm triggered, modify video resolution in the WebGUI might cause the device to reboot
• Fixed upgrade from old version to beta version, homepage is black and “D” key to restore video

ENHANCEMENTS

• GXV3662HD default setting as outdoor video mode
Firmware Version 1.0.1.57
Product Name: GXV3500/GXV3615WP_HD/GXV3662HD/GXV3651FHD
Date: April 22, 2012

**Changes Since Firmware Release GXV3662HD/ GXV3651FHD 1.0.1.40, Added New Products GXV3500 and GXV3615WP_HD**

**Bug Fixes**

- GXV3500 TV OUT mismatch with VIDEO-IN.
- GXV3615WP_HD English UI text issue
- Avigilon IOT issue: ONVIF not connecting.
- SD card recording issue.
- Video delay using MJEPG video codec.
- ONVIF test tool support V1.02.4

**Enhancements**

- GXV3500 support decode AAC audio
- Enabled alarm voice mode, trigger the SIP alarm to the audio only phone.
- GXV3662HD/GXV3651FHD COMS IR_CUT settings added algorithm control item
- GS_Search replies firmware version and device name
- SIP white list function
- GXV3651FHD added support 2560*1920
- New User Log-in design, allowing anonymous mode w/o credentials prompted.

Firmware Version 1.0.1.40
Product Name: GXV3662HD/GXV3651FHD
Date: September 20, 2011

**Changes Since Firmware Release GXV3662HD 1.0.1.28 / GXV3651FHD 1.0.1.32**

**Bug Fixes**

- Fixed: If the function (Enable Keep Alive) is active or not, the camera will send a sip request option to the sip server every 20s.
- Fixed: Option “Upload to Alarm HTTP Server” settings can't be saved after reboot
- Fixed: In the SIP page, add an option, when activated, all SIP calls will not send out audio
- Fixed: When the device receives a Check-Sync header field in the Notify packet, it will restart

**Enhancements**

- Support for ONVIF test tool updated to version 1.02.3.5
- Support for NUUO VMS running device pack 1.13
Firmware Version 1.0.1.28
Product Name: GXV3662
Date: April 19, 2011

CHANGES SINCE FIRMWARE RELEASE 1.0.1.22

BUG FIXES

- Fixed search tool cannot modify IP correctly
- Fixed 3662 IRIS (20% <->80%) switching problem
- Fixed 3662 IRIS will be darker

ENHANCEMENTS

- Updated the search program
- Added a tooltip in the warning triggered record page
- Added an option to allow user to set the duration time of the alarm output
- Added brightness, contrast and saturation auto save when power restart