GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.3.17**
Product Model: **GXV3500**
          (Boot: 1.0.0.1; Core: 1.0.3.17; Base: 1.0.3.17; Prog1: 1.0.3.17; Prog2: 1.0.3.17)
HW Supported: **V1.0, V1.1A, V1.2A, V1.2B, V1.2C**

Date: June 1, 2022

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.3.14

ENHANCEMENT

- Enhanced security by limit the number of failed attempts when trying to access the web interface

BUG FIXES

- Fixed device accept unsupported G.722 codec at INVITE
- Fixed unable to switch to Decoding Mode
- Fixed GSC3620 cannot be decoded using RTSP
- Fixed device randomly lost web access

NEW P VALUES

- P14832:   Max. Times Consecutively Login Error   (Value: 3 ~ 10)
- P14834:   Login Error Lock Time   (Value: 5 ~ 60 Minutes)

GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.3.14**
Product Model: **GXV3500**
 (Boot: 1.0.0.1; Core: 1.0.3.14; Base: 1.0.3.14; Prog1: 1.0.3.14; Prog2: 1.0.3.14)
HW Supported: **V1.0, V1.1A, V1.2A, V1.2B, V1.2C**

Date: *February 16, 2022*

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.3.13

ENHANCEMENT

- Added ability to trigger fake RTP when call is established under decode mode (Telefonica Spain)

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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

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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

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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

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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)
- P414:   SIP.NAT_Traversal (value: 0:No 1:STUN 2:Keep Alive 3:UPnP 4:Auto)
- 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)
- P285:   Maintenance.Hour_of_the_Day_Start (value:0-23)
- 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)

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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**

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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

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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

ENHANCEMENT

- Added activating alarm out directly upon receiving SIP call

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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.

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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.

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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.

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Firmware Release Notes: **Version 1.0.1.91**
Product Model: **GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD**
Date: *March 9, 2015*

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

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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.

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Firmware Release Notes: **Version 1.0.1.89**
Product Model: **GXV3500, GXV3615WP_HD, GXV3662_HD/FHD, GXV3672_HD/FHD, GXV3651FHD**
Date: *August 8, 2014*

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.

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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   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.

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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.

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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.

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

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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.

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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

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Product Name / Firmware Version: GXV3651FHD/1.0.1.81
Date: June 25, 2013

BUG FIXES

- Fixed delay in generating snapshots
- Fixed [Mirasys IOT]: Setting ONVIF EncondingInterval parameterhas 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

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Product Name / Firmware Version: GXV3672HD-FHD / GXV3662FHD 1.0.1.77
                                                   GXV3615WP_HD / GXV3500   1.0.1.75
Date: April 23, 2013

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

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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

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Firmware Version 1.0.1.57
Product Name: GXV3500/GXV3615WP_HD/GXV3662HD/GXV3651FHD
Date: April 24, 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.

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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

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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