
GRANDSTREAM NETWORKS

Firmware Release Notes

Firmware Version: **1.0.4.56**

(Boot: 1.0.2.0 Core: 1.0.4.4 Base: 1.0.4.56 Prog: 1.0.4.56 Base1: 1.0.4.56 Prog1: 1.0.4.56 Data: 1.0.0.3)

Product Name: **GXV3504/GXV3601HD/GXV3611HD**

Date: *April 23, 2015*

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.53

BUG FIXES

- Fixed failure to modify 1st stream with 30FPS via ONVIF channel management.
- Fixed GXV3504 constantly reboot with ONVIF 12.12_Media-2-3-11 testing kits.
- Fixed GXV3504 CPU high usage and XML configuration file with unsupported resolution cause device constantly reboot.
- Fixed GS_Search Tool cannot find device name.
- Fixed GXV3601HD using G.726 the SIP call is noisy.
- Fixed TELNET security issue that user with viewer privileges able to factory reset the device.
- Fixed ONVIF Profile0 and Profile1 include false fixed token.
- Fixed cameras failed to use ONVIF Channel Management if username has more than 20 Chinese characters.
- Fixed ONVIF "GetSystemDateTime" returned error value.
- Fixed SIP number got truncated when adding more than 15 alphanumeric.
- Fixed cannot configure static IP without DNS.
- Fixed GXV3504 failed to detect SD related information after running after a period of time.
- Fixed GXV3504 via VLC will lose connection after a period of time.
- Fixed bit rate at 2M the preview image would be disconnected frequently.
- Fixed Alarm Configuration the unreasonable "Region Config".

ENHANCEMENTS

- Disable TELNET by default.
- Added option to upload JPEG image into subfolder by date.
- Improved ONVIF system time setting, system webpage, added WebGUI for ONVIF time zone.
- Added prefix "GXV" to HIS product model name when using search function of GS_Search and GXV3550 NVR.
- Added ONVIF support of set Preset name include "".
- Revision WebGUI wording at SMTP/FTP setting pages.
- Delete the word "Remove" in SIP web setting page.

KNOWN ISSUE

- It takes long time to register sip account when "Unregister On Reboot" is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but then unplug the Wi-Fi adapter, the device will be restarted.
- GXV3504 recording file using same name among 1st stream and 2nd stream.

Firmware Release Notes

Firmware Version: **1.0.4.53**

(Boot: 1.0.2.0 Core: 1.0.4.4 Base: 1.0.4.53 Prog: 1.0.4.53 Base1: 1.0.4.53 Prog1: 1.0.4.53 Data: 1.0.0.3)

Product Name: **GXV3504/GXV3601HD/GXV3611HD**

Date: *December 19, 2014*

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.51

BUG FIXES

- Fixed 1st stream when set ePTZ via ONVIF would cause GVR3550 “encode config” displays error.
- Fixed GXV3504 multiple HTTP query would cause distorted snapshots.
- Fixed GVR3550 configure IPC via ONVIF at channel management “encode config”, pop up error message “encoding parameters failure” although the parameters actually set effective.
- Fixed GVR3550 ONVIF Alarm Notification Feature failed to work on GXV3601HD and GXV3611HD.
- Fixed the device name displayed incorrectly at SIP registry message.
- Removed “Note: You must restart the device to apply the changes” at the SIP page and the parameters now take effect immediately after “Save”.
- Fixed FTP upload video the file name of alarm is incorrect after “self-defined time zone” adjustment.

ENHANCEMENTS

- Enable UPnP by default and report complete device information by UPnP.
- When configured ePTZ, the 2nd stream will also automatically switch to ePTZ.
- Adjust new default NTP update interval to 60 minutes.
- Synology IOT: Added support for responding to HTTP polling requests for Motion Detection.
- Added SIP Open Door with min. 1 digit as key.

KNOWN ISSUE

- It takes long time to register sip account when “Unregister On Reboot” is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but then unplug the Wi-Fi adapter, the device will be restarted.
- GXV3504 recording file using same name among 1st stream and 2nd stream.

Firmware Release Notes

Firmware Version: **1.0.4.51**

(Boot: 1.0.2.0 Core: 1.0.4.4 Base: 1.0.4.51 Prog: 1.0.4.51 Base1: 1.0.4.51 Prog1: 1.0.4.51 Data: 1.0.0.3)

Product Name: GXV3504/GXV3601HD/GXV3611HD

Date: August 18, 2014

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.50

BUG FIXES

- Fixed lost audio issue after connecting VLC for a long time on GXV3504
- Fixed no P value related for option TELNET and UPnP.
- Fixed at GVR3550 NVR when adding GXV3611HD no audio output at Open Talk feature.

ENHANCEMENTS

- Removed ALLO command in FTP implementation.
- Added HTTP request to query status of connected cameras for GXV3504.
- Improve ONVIF response speed (Onvif_Port = Web_Port + 8000).
- Fixed fail to pass ONVIF 12.12 test cases for GXV3504.
- Added Alarm Input Notification for ONVIF

KNOWN ISSUE

- It takes long time to register sip account when "Unregister On Reboot" is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but then unplug the Wi-Fi adapter, the device will be restarted.
- GXV3504 recording file using same name among 1st stream and 2nd stream.

Firmware Release Notes
Firmware Version: **1.0.4.50**
Product Name: GXV3504/GXV3601HD/GXV3611HD
Date: July 18, 2014

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.49

BUG FIXES

- Fixed word “NTP” duplication in webGUI.
- Fixed GXV3504 at QNAP cannot process more than one HTTP request within 10 seconds.
- Fixed security issue of adding accounts illegally via ONVIF.
- Fixed security issue of retrieve camera information via ONVIF w/o authentication.
- Fixed FTP not working with some specific server (e.g.: Vodafone)
- Fixed GXV3504 fail to pass ONVIF 12.12 test case.
- Fixed webGUI fail to access if wrong email address, HTTP or SMTP port both configured same. (e.g.: TCP465)

ENHANCEMENTS

- Added Motion Detection Notification for ONVIF.
- Added TELNET enable/disable choice.
- Added UPnP enable/disable choice.
- Support ONVIF 12.12 test case.

KNOWN ISSUE

- It takes long time to register sip account when “Unregister On Reboot” is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but then unplug the Wi-Fi adapter, the device will be restarted.
- GXV3504 recording file using same name among 1st stream and 2nd stream.

Firmware Release Notes
Firmware Version: **1.0.4.49**
Product Name: GXV3504/GXV3601HD/GXV3611HD
Date: April 4, 2014

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.48

BUG FIXES

- Fixed MJPEG stream not displayed on Safari at iOS/OS-X.
(New URL: http://IP_IPC/mjpeg/mjpeg4.html; http://IP_IPC/mjpeg/mjpeg0.html 4/0: 2nd/1st Stream)
- Fixed wrong MIME type in email notification.
- Fixed GXV3611_HD Speaker stays on after usage (hissing noise).
- Fixed IPC replies with delay when setting MD region via HTTP API.
- Fixed ONVIF preset new name cannot be saved.
- Fixed device cannot be searched and found by GVR.
- Fixed white list in SIP setting page cannot be deleted if started with space character.

ENHANCEMENTS

- Added using variables to represent Motion Detection Zone in Alarm HTTP Server.
- Added HTTP Alarm Server per channel for QNAP IOT.
- Added NTP update interval option
- Added display device name on option 60

KNOWN ISSUE

- It takes long time to register sip account when “Unregister On Reboot” is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but unplug the Wi-Fi adapter, the device to be restarted.
- GXV3504 recording file using same name among 1st stream and 2nd stream.

Firmware Release Notes
Firmware Version: **1.0.4.48**
Product Name: GXV3504/GXV3601HD/GXV3611HD
Date: *March 6, 2014*

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.46

BUG FIXES

- Fixed Motion Detection Region Settings don't work correctly.
- Fixed GXV3500 WebGUI might not be accessible after using HTTP API commands over 1000 times.
- Fixed NVR cannot decoding GXV3504 and GXV3611HD.
- Fixed CFG file lost when webGUI reading SIP status page caused by network congestion.

ENHANCEMENTS

- Added Option 60 displaying device name.
- Access optimization for RTCP NVR connection.
- ONVIF compatible optimization.

KNOWN ISSUE

- It takes long time to register sip account when "Unregister On Reboot" is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but unplug the Wi-Fi adapter, the device to be restarted.
- GXV3504 recording file using same name among 1st stream and 2nd stream.

Firmware Release Notes
Firmware Version: **1.0.4.46**
Product Name: GXV3504/GXV3601HD/GXV3611HD
Date: December 20, 2013

SUMMARY OF UPDATES

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

CHANGES SINCE FIRMWARE RELEASE 1.0.4.45

BUG FIXES

- Fixed 2nd stream alarm not effect when using GSurf_Pro as alarm monitor device (GXV3611HD)

ENHANCEMENTS

- Added new variable to specify which channel MD detected for GXV3504 when using alarm HTTP.

KNOWN ISSUE

- It takes long time to register sip account when “Unregister On Reboot” is checked
- Insert Wi-Fi adapter, click the scan to search Wi-Fi channel but unplug the Wi-Fi adapter, the device to be restarted.

Firmware Release Notes

Firmware Version: 1.0.4.45

Product Name: GXV3504/GXV3601HD/GXV3611HD

Date: October 23, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.44

BUG FIXES

- Fixed [QNAP IOT] GXV3601_HD: Camera returns Invalid when setting MJPEG frame rate via HTTP API
- Fixed GAPS provisioning: P212 value for surveillance products
- Fixed Factory reset will clear w profile but Wi-Fi connection still exists.
- Fixed GXV3504 cannot format on first attempt
- Fixed Set audio codec as DISABLED, then go back to home page for video stream. When viewing primary stream, the audio is disabled, but for secondary stream, dual-way audio still work normally. Audio should be disabled in both stream
- Fixed IPC will treat NTP server IP+port as a domain name. IPC will request DNS, refresh the page, but IP+port can't be saved
- Fixed The new added sip number(for alarm phone list and white list) cannot display until browser is refreshed manually

ENHANCEMENTS

- Added variables to be used for the Alarm HTTP Server

KNOWN ISSUE

- It takes long time to register sip account when "Unregister On Reboot" is checked
- Insert Wi-Fi adapter, and then click the scan at the Wi-Fi setting module. Further scanning after pulling out the Wi-Fi adapter cause the device to be restarted.
- GXV3504 file name of secondary stream record file is the same as the primary stream

Firmware Release Notes

Firmware Version: 1.0.4.44

Product Name: GXV3504/GXV3601HD/GXV3611HD

Date: August 20, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.43

BUG FIXES

- Fixed Cross Site Scripting (XSS) vulnerability `http://xx.xx.xx.xx/<script>alert(123)</script>`
- Fixed [Mirasys IOT]: Setting ONVIF EncodingIntervalparameter has no effect
- Fixed cannot specify port with STUN server
- Fixed IPC will treat NTP server IP+port as a domain name
- Fixed on GXV3504 the file name of secondary stream record file is the same as its primary stream
- Fixed Primary and Secondary audio streams are not both disabled when setting audio codec to "Disabled"

ENHANCEMENTS

- Added support to apply SIP configuration changes without reboot
- Added RTCP support

Firmware Version: 1.0.4.43

Product Name: GXV3504/GXV3601HD/GXV3611HD

Date: July 9, 2013

BUG FIXES

- Fixed [Mirasys IOT]: Setting ONVIF Encoding Interval parameter has no effect
- Fixed supercmd access vulnerability
- Fixed P207 does not set the syslog server path
- Fixed SIP registration request does not comply with SIP protocol
- Fixed GXV3504 when "Preferred Audio Codec" is set to "Disabled", channel 3 and channel 4 still send RTP data

ENHANCEMENTS

- Added support for UPnP Discovery
- Added support for Chrome & Firefox plugins
- Added support to change the admin password via provisioning file

Firmware Version: 1.0.4.42

Product Name: GXV3504/GXV3601HD/GXV3611HD

Date: May 15, 2013

BUG FIXES

- Fixed connection information in media level ignored
- Fixed GXV3501 wrong behavior after receiving 181 SIP message
- Fixed GXV3501 advertise wrong media port after receiving re-invite without SDP
- Fixed updating time zone via P value cannot take effect
- Fixed GXV3504 when camera sets up an IP call with an IP phone, cannot switch to the other channel
- Fixed in DHCP mode, long time(around 30min) SIP call with video phone will be ended automatically
- Fixed SIP info contains wrong User Agent , it should be "Grandstream GXVxxx"
- Fixed Request-URI on Register request does not contain the Registrar's SIP port
- Adjusted the WEBGUI wording of SMTP page: Email Content:->Email Subject, Email Body:->Email Content
- Fixed registering IPC to asterisk, if we disable the warning audio mode, SIP warning call doesn't play alarm whistle

ENHANCEMENTS

- Added an option to select "sendonly" or "sendrecv" of video in INVITE
- Added an option to use the phone list as a serial hunting group
- GXV3504: Added camera address offset for Pelco P/D protocol

Firmware Release Notes

Firmware Version: 1.0.4.38 (1.0.4.39 for GXV3504)

Product Name: GXV36XX / GXV35XX

Date: January 30, 2013

CHANGES SINCE FIRMWARE RELEASE 1.0.4.37

BUG FIXES

- Fixed: Phone number not accepting * (star) and letters
- Fixed: QNAP IOT video stream distortion with MJPEG video codec
- Fixed: SMTP HELO/EHLO message not respecting RFC2821 format
- Fixed: GXV3615W can't detect/display Wi-Fi SSID name when space character used
- Fixed: Upgrade from old non-P value supported firmware only request XML file but not update value
- Fixed: Illegal value in System Setting page can be written to P value
- Fixed: Set a customized local SIP port, camera can make alarm SIP call only once

- Fixed: Direct IP call to camera only works for GXV3000 but not GXV3140/3175
- Fixed: After DDNS register successfully, disable DDNS the status still shows successful
- Fixed: Firmware upgrade leave Enable Two-Way Audio Warning Mode unchecked
- Fixed: GXV3601HD/3611HD with 1600*1200 resolution when the Frame Rate P value beyond

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- maximum allowed (illegal) the value discard but keep device in reboot cycle
 - Fixed: GXV3504 alarm snapshots of all channels using 1st channel resolution (1.0.4.39)
 - Fixed: GXV3504 change 1st channel resolution, alarm snapshots not working (1.0.4.39)

ENHANCEMENTS

- Synchronized DI/DO interface for all models like GXV3601
- Allow customization of alarm email notification for motion detection

Firmware Release Notes

Firmware Version: 1.0.4.37

Product Name: GXV36XX / GXV35XX

Date: August 15, 2012

CHANGES SINCE FIRMWARE RELEASE 1.0.4.34

BUG FIXES

- Fixed: OSD still display text and time in snapshot picture even when disabled
- Fixed: TCP Notification to SVR when event triggered (Alarm or Motion Detect)
- Fixed: ONVIF compatibility of metadata stream support
- Fixed: Anonymous mode Brightness, Contrast and Saturation adjustable
- Fixed: Not return HTTP request without carrying the USER-AGENT
- Fixed: GXV3504 if editing more than two detection region "Alarm Action" will not be saved
- Fixed: Static IP mode DNS using 2nd DNS Server first and failed to resolve the NTP server
- Fixed: "Unregister on Reboot" device not send register request
- Fixed: GXV3601HD "Email and FTP upload JPEG and Store to SD driver" occasionally stales and require reboot to recover
- Fixed: Change from static to dynamic IP/DNS still using designated static DNS
- Fixed: In SIP call the IP camera should receive only audio data from phone to save bandwidth
- Fixed: No P Value mapping to "ePTZ"
- Fixed: Not accept peer to peer IP call when SIP account not registered
- Fixed: GXV3501/GXV3611 after upgrade perform factory reset the P value not storable
- Fixed: GXV3601HD/3611HD maximum resolution 1600*1200 with wrong frame rate P value in server causing device constantly reboot
- Fixed: Illegal P value able to store at GXV3504 system module
- Fixed: No alarm tone when voice alarm to mobile phone
- Fixed: Prevent obtaining XML encryption key during HTTP API upgrade maintenance
- Fixed: No P Value match the option "Turn off the LED Indicator"
- Fixed: 2nd stream audio issue
- Fixed: SIP account registration failure when using PPPoE connection
- Fixed: Illegal P value handling issue on different modules

ENHANCEMENTS

- Added Venezuela time zone
- Add MTA support in SMTP settings
- Optimized and improved WebGUI

Firmware Release Notes

Firmware Version: 1.0.4.34

Product Name: GXV36XX / GXV35XX

Date: April 26, 2012

CHANGES SINCE FIRMWARE RELEASE 1.0.4.27

BUG FIXES

- Fixed: QNAP IOT GXV3615 MJPEG video failed
- Fixed: GXV3611HD/GXV3615W upgrade failed to pull video
- Fixed: GXV3504/GXV3601HD USB port detection issue
- Fixed: GXV3504 Motion Detection add/remove alarm time does not refresh webpage
- Fixed: System time set ahead of current time, SIP call alarm will not be triggered
- Fixed: GXV3601 series plug SD card system detects problem
- Fixed: GXV3601HD/GXV3611LL via API to set the MJPEG encoding the decoding will fail
- Fixed: Modify SIP module parameters save but not reboot, some parameters will revert back
- Fixed: Empty firmware server path affects XML configuration file provision and download
- Fixed: GXV3611HD flip and power frequency value cannot be saved
- Fixed: SIP provisioned then factory reset the P value not back to default
- Fixed: Audio codec PCMU or disabled cannot be saved
- Fixed: GXV3504 P value cannot be configured to 4*D1
- Fixed: GXV3504 will not trigger alarm action in GSurf
- Fixed: ONVIF 1.02.4.3 fail to get the information of the device
- Fixed: Avigilon IOT ONVIF not connect
- Fixed: AXXON IOT issue
- Fixed: NUUO IOT issue
- Fixed: ONVIF IOT problem
- Fixed: Device name contains illegal characters
- Fixed: GXV3601 reboot during SD card recording will cause card not readable and stop recording

- Fixed: Enable "White List" and "Direct IP Call" confliction
- Fixed: Cannot remove numbers containing "+" in White List
- Fixed: Factory reset the Brightness, Contrast, Saturation parameter not back to default
- Fixed: Manual Recording and Event Alarm Recording logic confliction
- Fixed: GXV3501 remove all files of SD card, SD card becomes read only
- Fixed: Unplug/plug network cable, two-way audio not resume when in SIP call mode
- Fixed: GXV3601/GXV3501 SD card initialization error causing no information on web page
- Fixed: Many uncompleted files (the "*.a" files) in local record function
- Fixed: local recording file cannot be downloaded

- Fixed: HTTP MJPEG stream display “No Privilege” when anonymous viewing enabled
- Fixed: GXV3504 when multiple SIP call established, only 1st channel audio switchable
- Fixed: No system error reminder if local schedule record enabled while enable manual record
- Fixed: SMTP data format error
- Fixed: Daylight Saving Time not take effect when configured
- Fixed: GXV3615W scan not get SSID
- Fixed: GXV3615W has to manually specify security encryption method.
- Fixed: When trigger event alarm, “Upload to Alarm HTTP Server” not function
- Fixed: Disconnect link after server confirmation when HTTP alarm notification trigged
- Fixed: GXV3615 cannot turn off LED light

ENHANCEMENTS

- Added P-value support for system automatic provisioning
- Added “White List Number Filter” support
- Added Direct IP call enabled by default
- Added GXV3504 4*D1 items
- Added HTTP port range from 80~65535
- Added GS_Search report firmware version information
- Added Format storage media and review API
- Added file delete only affect current page
- Added default off hook time when session stalled
- Added log in no credential request window popup when in anonymous mode
- Added Russian UI support
- Added fully ONVIF 1.02 standard support
- Added specific time frame ONLY one record working, either alarm trigger, schedule or manual
- Added video flip function on GXV3601HD
- Added PTZ command support via RS-485
- Added Synology IOT implementation
- Added DTMF support in SIP client
- Added Send snapshot to FTP server when alarm triggered
- Added Check-Sync/Notify remote reboot support when SIP account in effect
- Added DDNS function support Grandstream DDNS

KNOWN ISSUE

- Two-way voice intercom has echo

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[Firmware Release Notes](#)
Firmware Version: 1.0.4.27
Product Name: GXV36XX / GXV35XX
Date: September 27, 2011

CHANGES SINCE FIRMWARE RELEASE 1.0.4.16

BUG FIXES

- Fixed: Downgrade version, sip set is missing
- Fixed: Sip page default value problem
- Fixed: When event alarm is triggered , "Upload to Alarm HTTP Server" is not working
- Fixed: Enable SIP open door, DI trigger wasn't fully overridden
- Fixed: Device's default upgrade path should be "fm.grandstream.com/gs"
- Fixed: HTTP motion detection notification
- Fixed: Wi-Fi ra0 lose automatic reboot
- Fixed: NUUO talk bug
- Fixed: GXV3611LL, 3601LL & 3615 API values for contrast, brightness and saturation don't match the corresponding value.
- Fixed: Synchronization with ONVIF test tool v1.02.3.5
- Fixed: Support for automatic selection of WEP/ OPEN, WAP PSK, WAP2 PSK when you have to manually set between open and shared.
- Fixed: GXV3504 HTTP API has wrong value for brightness
- Fixed: Devices must send keep alive packets to the STUN and the SIP server
- Fixed: Added " Do not receive audio" option for SIP calls
- Fixed: GXV3601HD 2 way voice problem
- Fixed: Cannot visualize the GUI of the GXV3611LL
- Fixed: Support for ONVIF on channels 2,3 and 4 of the GXV3504
- Fixed: ONVIF can't discover the devices
- Fixed: Added support for check-sync header in SIP Notify
- Fixed: Improved support for simultaneous PTZ command
- Fixed: Added device name to the subject of the warning email
- Fixed: Added feature to send the snapshot to a FTP server when the warning is triggered
- Fixed: SIP, added on hook timer.
- Fixed: SIP, Cannot retrieve 2 way audio after holding the call.
- Fixed: SIP, Registration mechanism follows RFC3261
- Fixed: Audio SIP alarm voice
- Fixed: GXV3601HD and GXV3611HD. When the cameras reboot, they will not remember the correct power line frequency.
- Fixed: Support for P Value configuration of SIP parameters.
- Fixed: Search tool can't modify the IP address.
- Fixed: After adding an administrator, then the anonymous mode doesn't work correctly.
- Fixed: GXV3504, alarm output doesn't switch correctly
- Fixed: 2 way audio noise issues
- Fixed: GXV3501, anonymous feature doesn't take effect
- Fixed: GXV3504, added support for 4 x D1 resolution at reduced bitrate
- Fixed: GXV3615 can't turn off the LED light

- Fixed: Added DDNS support for Grandstream
- Fixed: Added an option to allow the user to set the duration time of the alarm output.

ENHANCEMENTS

- Added support for NUUO VMS with Device pack 1.13

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Firmware Version: 1.0.4.16

Product Name: GXV36XX / GXV35XX
Date: March 8, 2011

CHANGES SINCE FIRMWARE RELEASE 1.0.4.11

BUG FIXES

- Fixed GXV3501 anonymous feature does not work
- Fixed device does not save user settings for brightness, contrast and saturation

ENHANCEMENTS

- Added GXV3504 4xD1 mode
NTSC:
H264 – 4x(704x480), 2048kbps@15fps + no secondary stream
H264 – 4x(704x480), 1536kbps@19fps + no secondary stream
H264 – 4x(704x480), 1536kbps@15fps + secondary stream 4xQCIF (176x112) 128kbps@10fps
MJPEG – 4x(704x480), 4096kbps@15fps + no secondary stream

PAL:
H264 – 4x(704x576), 2048kbps@13fps + no secondary stream
H264 – 4x(704x576), 1536kbps@16fps + no secondary stream
H264 – 4x(704x576), 1536kbps@10fps + secondary stream 4xQCIF (176x144) 128kbps@10fps
MJPEG – 4x(704x576), 4096kbps@13fps + no secondary stream.
- Added GXV3504: SIP open door feature is supported on all 4 channels
 1. All the channels share the same password to open the door
 2. Users can switch among the channels via video-phone with “X+#” X must be a number from 1 to 4 and DTMF must be sent using SIP INFO
 3. After entering password plus a “#”, the GXV-3504 will open the corresponding channel lock
- Added support for ONVIF test tool V1.02 (MUST) test items
- Added support for HTTP command to take a snapshot of the secondary stream
- Added support for HTTP CGI command to enable pushing the video stream (including Secondary Stream MJPEG)
- Improved web UI display update performance
- Added Normal and Vivid options in the web UI for GXV3601HD/3611HD image color

ENHANCEMENTS

- Added support for NUUO VMS with Device pack 1.13

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Firmware Release Notes
Firmware Version: 1.0.4.11
Product Name: GXV36XX / GXV35XX
Date: January 7, 2010

CHANGES SINCE FIRMWARE RELEASE 1.0.4.7

BUG FIXES

- Fixed SMTP configuration page and email address doesn't allow capital letters
- Fixed GXV3611LL secondary stream resolution 160*112 can't be saved
- Fixed SIP call appears one way audio under PPPOE mode ,unit uses the wrong IP address in SDP negotiation
- Fixed PTZ speed 32 doesn't take effect
- Fixed GXV3601HD Brightness adjust bar doesn't take effect
- Fixed GXV3601LL can't discover the SD card on second time
- Fixed GXV HD when configured to 1600*1200 as primary stream, the secondary stream can't match the GXV3000 resolution; added a 320*240 for secondary stream
- Fixed GXV3601LL PPPoE mount/unmounts 32G SD card causing crash
- Fixed Warning schedule remove display successful, but actually failed

ENHANCEMENTS

- Added an option allow user choose playing the warning message or establishing dual-audio speaking. If IP camera is set to send warning call to a voice only extension, the following steps are:
 1. If Enable SIP Open Door is selected, a dual-way voice call will be established between IP camera and remote extension.
 2. If Enable SIP Open Door is not selected, prerecorded warning beacon will be played by IP camera for remote extension.
- Added an option in web UI to select languages and save to device
- Disabled some modules that do not exist on web UI
- Added an API into firmware to enable snapshot feature

Firmware Release Notes
Firmware Version: 1.0.4.7
Product Name: GXV36XX / GXV35XX
Date: September 14, 2010

This release is ONVIF conformance approved.

CHANGES SINCE FIRMWARE RELEASE 1.0.4.6

BUG FIXES

- Fixed remaining issue with ONVIF test tool 1.01.1.26
- Fixed GXV3501 SD/USB displays only one snapshot in every single page

- Fixed volume bar does not have a proper default value
- Fixed special character "—" in OSD menu will cause OSD display error
- Fixed Warning schedule remove shows successful, but actually failed
- Deleted unsupported items from web UI

ENHANCEMENTS

- Added PPPoE support for all models

NOTE

Some GXV3601HD devices after upgrading to 1.0.4.6/1.0.4.7 will not play video. To solve the problem, devices need to be upgraded to a transitional firmware version 1.0.4.0. Please contact Grandstream support team for the firmware and special instructions.

Firmware Release Notes
Firmware Version: 1.0.4.6
Product Name: GXV36XX / GXV35XX
Date: August 25, 2010

CHANGES SINCE FIRMWARE RELEASE 1.0.3.9

BUG FIXES

- Fixed DDNS status showed "account number/password mistake" even when login was successful
- Fixed audio negotiation in RTSP when audio is configured as disabled
- Fixed the snapshot attached in EMAIL for alarm events sometimes didn't contain OSD message

ENHANCEMENTS

- Added support of "+" and "-" in allowed character list
- Added WIFI dongle support for GXV3501/3601/3601 LL/3601 HD
- Added ONVIF support on GXV3501/3601/3601 LL/3601 HD/3611 LL/3611HD
- Added support for different Date formats
- Added support for configurable "Self-Define DDNS Address"
- Added the option to choose primary or secondary stream for VOIP calls
- Added support to set the DI/DO active state and show their current states
- Added support for Open door via SIP feature on GXV3501/3601/3601 LL/3601 HD/3611 LL/3611HD
- Modified CMOS sensor series to use new video size (LL/HD)
- New web GUI

Firmware Release Notes
Firmware Version: 1.0.3.9
Product Name: GXV36XX / GXV35XX
Date: May 7, 2010

Note: Firmware 1.0.3.9 has changed the default IP configuration to DHCP

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 1.0.2.3

BUG FIXES

- Fixed the device responds 488 instead of 486 when the number of incoming calls exceeds the maximum limitation

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- Fixed GXV3601 HD, EPTZ screen will move to opposite direction when pressing LEFT or RIGHT
 - Fixed the system time will be one hour off if “Synchronize with Local Computer” is set to Daylight Saving Time
 - Fixed 3601 HD old hardware EPTZ shows green line
 - Fixed changing Brightness, contrast and saturation do not take effect
 - Fixed SIP User-agent field error
 - Fixed with Broadsoft platform when client uses the sub-stream to watch video, device gsdvs process is restarted
 - Fixed “Set the Time Manually” or “Synchronize with Local Computer” settings are overridden by “Update via NTP Server” after reboot
 - Fixed Daylight Savings rule error
 - Fixed if OSD “Include Text” is empty, no time will be shown in OSD
 - Fixed H264 packetization-mode error
 - Fixed GXV3601HD alarm won’t generate photo when alarm is triggered
 - Fixed setting “ I-frame Interval” to minimum value caused the unit to restart

ENHANCEMENTS

- Changed the default IP configuration to DHCP
- Added support for 4 concurrent SIP calls
- Added support for changing channels while on the call by pressing 1/2/3/4
- Added support to auto start video after logging onto IE browser
- Added support for compatibility with Asterisk
- Added support for Asterisk record playback
- Added support so that plugging SD/MMS does not require a reboot to take effect
- Added support for audio only call
- Added support for including "-" character in SMTP/E-mail field
- New certificate for GSViewerX