GSC36XX Firmware Release Notes

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FIRMWARE VERSION 1.0.3.7

PRODUCT NAME
GSC36XX - GSC3610/GSC3615 (*HW Supported: 1.0A, 1.0B, 1.0C*)

DATE
6/02/2021

SUMMARY OF UPDATE
The main purpose of this release is bug fixes.

NOTE:
Factory reset is suggested if having abnormal webUI parameters after upgrade.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

<table>
<thead>
<tr>
<th>HW version</th>
<th>FW</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSC36XX HW1.0C</td>
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<td></td>
</tr>
<tr>
<td>GSC36XX HW1.0B</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GSC36XX HW1.0A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

ENHANCEMENT
- Added ability to trigger HTTP command on Alarm Action.
- Added error prompt when alarm action profile name to blank.
- Removed CPE information from the system info page.
- Removed webUI display of Cloud.
BUG FIX

- Fixed cannot switch MJPEG video stream in Chrome or Firefox Browser.
- Fixed in Chinese UI the Alarm Sequence Disable button still using English.
- Fixed Auto Reboot happened during active call.
- Fixed calling 1080p enabled device still using 2nd video stream.
- Fixed device not sending register request after unregister.
- Fixed SIP module not function correctly in UPnP mode.
- Fixed UPnP and SSH adjustment require reboot to take effect.
- Fixed display error when using valid certificate with length more than 2038.
- Fixed post request the SerialNumber should be MAC address.
- Fixed alarm phone stored with IP:Port will add extra port 5060 to call therefore failed.
- Fixed invalid P value in XML file will result in empty at WebUI instead of default value.
- Fixed MD in multizone combined mode other zones cannot be checked if zone 1 not checked.
- Fixed web port set to illegal value still be saved without error prompt.
- Fixed adding white list number more than 32 characters will affect other number.
- Fixed changing from HTTP to HTTPS the default port 80 not changed 443.
- Fixed when MJPEG authentication set to Basic the video/snapshot has copyright notice.
- Fixed use GS_Search Tool to change device to static IP the network setting page is abnormal.
- Fixed time zone cannot be set to GMT-03:00 (Brazil, Sao Paulo).
- Fixed account will not register automatically when importing configuration file with password.
- Fixed zero config with UCM failure.
- Fixed provisioning CA Certificate will not take effect immediately.
- Fixed wrong password trying login multiple times not be locked out at configured time.

NEW P-VALUE

<table>
<thead>
<tr>
<th>P63012</th>
<th>System_Settings.Cloud_Server_Settings.Token</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>String (Maximum 1024 character)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P63013</th>
<th>System_Settings.Cloud_Server_Settings.Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0 / 1. 0: Stream 1; 1: Stream 2</td>
</tr>
</tbody>
</table>

NEW HTTP API:

GET: [http|https]://<servername>/goform/config?cmd=get&type=neccloud

SET: [http|https]://<servername>/goform/config?cmd=set&P63012=<value>

SET: [http|https]://<servername>/goform/config?cmd=set&P63013=<value>

Released HTTP API documentation can be downloaded from here:

NEW FEATURES OVERVIEW

This section lists major new features or improvement and describes how to use them from the user’s point of view.

ALARM ACTION PROFILE NAME CANNOT BE BLANK

- **Web Configuration**

This option can be found under device web UI → Alarm Settings → Alarm Action Settings:

![Alarm Action Profile Name Cannot Blank](image)

- **Functionality**

This feature enhancement will improve usability and prevent user unconsciously adding blank profile into system therefore the alarm action not functioning.

For detailed information, please refer to User Manual and Resource Center:

- **GSC36XX User Manual:**

- **HTTP API** documentation can be downloaded from here:
FIRMWARE VERSION 1.0.3.5

PRODUCT NAME
GSC36XX - GSC3610/GSC3615 (HW Supported: 1.0A, 1.0B, 1.0C)

DATE
1/12/2021

SUMMARY OF UPDATE
The main purpose of this release is bug fixes and features enhancement.

NOTE:
Factory reset is suggested if having abnormal webUI parameters after upgrade.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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<td></td>
</tr>
<tr>
<td>GSC36XX HW1.0A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

ENHANCEMENT
- Added GDMS/TR069 support
- Added SN/CPE information at System Info page.
- Added API command to check the motion detection status (QNAP Integration).
- Added auto reboot feature.
- Added Sequence Alarm Mode, Multi-zone Combined Alarm Mode and Zone Trigger Ratio Alarm Mode in Motion Detection.
- Added support/compatibility for Telefonica ITSP.
- Added 30FPS support at 2nd stream and default video resolution to 640x480 (VGA).
- Added Cloud Support by pushing video stream to server for some Service Provider.
BUG FIX

- Fixed GSWave (Wave Lite) call GSC36XX no video.
- Fixed video recorded by IE browser cannot be played by playback tool.
- Fixed HTTP API time zone issue
- Fixed email address with special characters in template will prompt error.
- Fixed MD new alarm call will not move to next number when previous number time out no answer.

NEW P-VALUE

| P2327 | Account.Account_1.Enable_RFC6184  
Value: 0 / 1.  0: Disable;  1: Enable. |
|-------|----------------------------------|
| P2427 | Account.Account_2.Enable_RFC6184  
Value: 0 / 1.  0: Disable;  1: Enable |
| P2527 | Account.Account_3.Enable_RFC6184  
Value: 0 / 1.  0: Disable;  1: Enable |
| P2627 | Account.Account_4.Enable_RFC6184  
Value: 0 / 1.  0: Disable;  1: Enable |
| P15540 | Reboot_Reset.Auto_Reboot.Enable  
Value: 0 / 1.  0: Disable;  1: Enable |
| P15541 | Reboot_Reset.Auto_Reboot.Week  
Value: 0: Everyday 1: Sunday 2: Monday 3: Tuesday 4: Wednesday 5: Thursday 6: Friday 7: Saturday |
| P15542 | Reboot_Reset.Auto_Reboot.Time  
Value: String.  Example: 08:20 → 0820 |
| P63010 | Cloud_Server_Settings.Enable_Cloud_Server  
Value: 0 / 1.  0: Disable;  1: Enable |
| P63012 | Cloud_Server_Settings.Token  
Value: String.  Max. Length = 1024 |
| P63013 | Cloud_Server_Settings.Stream  
Value: 0 / 1.  0: Stream 1; 1: Stream 2 |
| P15517 | Alarm_Settings.Alarm_Event_Config.Motion_Detection_Mode  
Value: 0/1/2/3  0: Default Alarm Mode  1: Sequence Alarm Mode  2: Multi-zone Combined Alarm Mode  3: Zone Trigger Ratio Alarm Mode |
| P15518 | Alarm_Settings.Alarm_Event_Config.Multi_Region_of_Motion_Detection  
Value: String. |
| P15524 | Alarm_Settings.Alarm_Event_Config.Longest_Time_for_a_Valid_Multi-Zone_Alarm_Detection  
Value: 5 ~ 60 (second) |
| P15525 | Alarm_Settings.Alarm_Event_Config.Minimum_Number_of_Alarming_Zones_for_a_\_Valid_Multi-Zone_Alarm_Detection  
Value: 1 ~ 4 |
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15519 Alarm_Settings.Alarm_Event_Config.Minimum_Number_of_Blocks_Detected_Per.Region</td>
<td>(For night motion detection only)</td>
<td>1 ~ 100</td>
</tr>
<tr>
<td>P1409 System_Settings.TR069.Enable_tr069</td>
<td></td>
<td>0 / 1. 0: Disable; 1: Enable.</td>
</tr>
<tr>
<td>P4503 System_Settings.TR069.ACS_URL</td>
<td></td>
<td>String. Max. Length = 1024</td>
</tr>
<tr>
<td>P4504 System_Settings.TR069.ACS_User_Name</td>
<td></td>
<td>String. Max. Length = 512</td>
</tr>
<tr>
<td>P4505 System_Settings.TR069.ACS_Password</td>
<td></td>
<td>String. Max. Length = 512</td>
</tr>
<tr>
<td>P4506 System_Settings.TR069.Periodic_inform_enable</td>
<td></td>
<td>0 / 1. 0: Disable; 1: Enable</td>
</tr>
<tr>
<td>P4507 System_Settings.TR069.Periodic_inform_interval</td>
<td></td>
<td>1 ~ 4294967295</td>
</tr>
<tr>
<td>P4511 System_Settings.TR069.connect_request_user_name</td>
<td></td>
<td>String. Max. Length = 256</td>
</tr>
<tr>
<td>P4512 System_Settings.TR069.connect_request_password</td>
<td></td>
<td>String. Max. Length = 256</td>
</tr>
<tr>
<td>P4518 System_Settings.TR069.connect_request_port</td>
<td></td>
<td>1 ~ 65535</td>
</tr>
<tr>
<td>P8220 System_Settings.TR069.cpe_cert_file</td>
<td></td>
<td>String. Max. Length = 2048</td>
</tr>
<tr>
<td>P8221 System_Settings.TR069.cpe_cert_key</td>
<td></td>
<td>String. Max. Length = 2048</td>
</tr>
</tbody>
</table>
NEW HTTP API:

GET:[http|https]://<servername>/goform/config?cmd=get&type=sip
GET:[http|https]://<servername>/goform/config?cmd=get&type=event
GET:[http|https]://<servername>/goform/config?cmd=get&type=reset_reboot
GET:[http|https]://<servername>/goform/config?cmd=get&type=neccloud
GET:[http|https]://<servername>/goform/config?cmd=get&type=tr069

SET:[http|https]://<servername>/goform/config?cmd=set&P2327=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P2427=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P2527=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P2627=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15540=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15541=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15542=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15517=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15518=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15519=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15524=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15525=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P1409=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14090=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14091=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14092=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14093=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14094=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14095=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14096=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14097=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14098=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P14099=<value>

Released HTTP API documentation can be downloaded from here:

NEW FEATURES OVERVIEW

This section lists major new features or improvement and describes how to use them from the user’s point of view.

GDMS/TR069 SUPPORT

• Web Configuration

This option can be found under device web UI → System Settings → TR069:

![Web Configuration UI](image)

• Functionality

This feature enhancement will allow centralized management and provisioning of mass product operations. This is very useful for ITSP customers and enterprise solutions.

With GDMS management, customers can manager, provision the GSC36XX from GDMS platform.

For detailed management and usage of this feature, please refer to Grandstream Device Management System (GDMS) product page:

API TO CHECK MOTION DETECTION STATUS (QNAP INTEGRATION)

- **Functionality**

This feature is implemented based on feedback from field customers.

Please use the following URL example to request the actual status of Motion Detection Status after configured and defined the related region:

https://192.168.5.169/goform/config?cmd=api_get_data&type=0

(the above IP address is the example of GSC36xx IP camera)

Actual/Expected Result:

Response Message:

<Configuration>
  <MD_STATUS>1</MD_STATUS>
  <RetMsg>OK</RetMsg>
</Configuration>
AUTO REBOOT FEATURE

• Web Configuration

This option can be found under device web UI → Maintenance → Reboot & Reset:

![Reboot & Reset configuration](image)

• Functionality

By default, this setting is disabled.

User can configure the device to reboot itself at specific time every day or particular day at every week, to make sure the IP camera is running smooth and provide stable and reliable video feed to the 3rd party NVR device or 3rd party RTSP video pulling device.

This enhancement is requested by 2nd stage developers and system integrators.
SEQUENCE, MULTI-ZONE COMBINED AND ZONE RATIO ALARM MODE

- **Web Configuration**

This option can be found under device web UI → Alarm Settings → Alarm Events Config:

![Motion Detection Configuration](image)

- **Functionality**

In addition to the default MD alarm mode, these new enhancements will allow user to configure multiple alarm region and based on Sequence, Combined, or Blocks Ratio per region (Night Mode Only), to trigger motion detection alarm.

The main purpose of such enhancement is to reduce false positive alarms triggered by motion detection.

By pointing the mouse to the “?” icon, explanations of the settings or configurations will be displayed. (See the green circle and yellow square in above snapshot).

For detailed configuration and how to use these enhanced motion detection mode, please refer to GSC36xx User Manual:

ITSP (BROADSOFT/TELEFONICA) SUPPORT

- **Web Configuration**

  This option can be found under device web UI → Account → Account X → SIP Advanced Settings:

  ![SIP Advanced Settings](image)

  - **Functionality**

    This “Special Feature” will allow GSC36xx to operate like other Grandstream SIP end points in some ITSP’s network, like for example Telefonica, or Broadsoft platform.

For detailed information, please refer to User Manual and Resource Center:

- **GSC36XX User Manual:**

- **HTTP API** documentation can be downloaded from here:
FIRMWARE VERSION 1.0.1.19

PRODUCT NAME
GSC36XX - GSC3610/GSC3615 *(HW Supported: 1.0A, 1.0B, 1.0C)*

DATE
07/28/2020

SUMMARY OF UPDATE
The main purpose of this release is bug fixes and features enhancement.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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</tr>
<tr>
<td>GSC36XX HW1.0A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

ENHANCEMENT

- Added WDR Support
- Added 720p(HD), D1 resolution support in 2nd stream.
- Added SIP UPnP NAT Traversal

BUG FIX

- Fixed Chrome/Firefox cannot preview/liveview H.265 video
- Fixed video is fuzzy when there is a motion
- Fixed device lost webUI access when enabled Anonymous LiveView and viewing video via API
- Fixed audio distorted or lost sometimes when using MJPEG and recording with MS IE
- Fixed IE cannot use the plugin to preview/liveview video
- Fixed video frozen then resume when alarm triggered with email snapshot
- Fixed RTSP stream not disconnected after changing RTSP password
- Fixed certificate cannot be uploaded via IE browser
- Fixed sometimes webUI automatically log out
- Fixed sometimes no alarm record stored at ONVIF NVR
### NEW P-VALUE

| P15513 | Video_Audio_Settings.CMOS_Settings.WDR  
Value: 0 / 1.  0: Disable;  1: Enable. |
| P43064 | Account.Account_1.UPnP_NAT_Traversal  
Value: 0 / 1.  0: Disable;  1: Enable. |
| P43065 | Account.Account_1.UPnP_NAT_Traversal  
Value: 0 / 1.  0: Disable;  1: Enable. |
| P43066 | Account.Account_1.UPnP_NAT_Traversal  
Value: 0 / 1.  0: Disable;  1: Enable. |
| P43067 | Account.Account_1.UPnP_NAT_Traversal  
Value: 0 / 1.  0: Disable;  1: Enable. |

### MODIFIED P-VALUE

| P12315 | Video_Audio_Settings.Video_Settings.Stream_1.Bit_Rate  
Value: 512/1024/2048/3072 ➔ 512/1024/2048/3072/4096/6144 |
| P12707 | Video_Audio_Settings.Video_Settings.Stream_2.Resolution  
Value: 1(640*480)/1009(352*288)/0(320*240) ➔ 1022(1280*720)/1016(704*576)/1(640*480)/1009(352*288)/0(320*240) |
| P12708 | Video_Audio_Settings.Video_Settings.Stream_2.Bit_Rate  
Value: 256/512/1024/2048 ➔ 256/512/1024/2048/3072 |
| P15480 | Account.Account_1.stream  
0:stream1 1:stream2 ➔ 1:stream1 0:stream2 |
| P8000  | Account.Account_2.stream  
0:stream1 1:stream2 ➔ 1:stream1 0:stream2 |
| P15481 | Account.Account_3.stream  
0:stream1 1:stream2 ➔ 1:stream1 0:stream2 |
| P15482 | Account.Account_4.stream  
0:stream1 1:stream2 ➔ 1:stream1 0:stream2 |
| P8003  | Phone_Settings.SIP_Proxy_Compatibility_Mode  
0:Disable 1:Enable ➔ 1:Disable 0:Enable |
NEW HTTP API:

- **P15513**
  
  GET: [http][https]://<servername>/goform/config?cmd=get&type=cmos  
  SET: [http][https]://<servername>/goform/config?cmd=set&P15513=<value>

- **P43064/43065/43066/43067**
  
  GET: [http][https]://<servername>/goform/config?cmd=get&type=sip  
  SET: [http][https]://<servername>/goform/config?cmd=set&P43064=<value>  
  SET: [http][https]://<servername>/goform/config?cmd=set&P43065=<value>  
  SET: [http][https]://<servername>/goform/config?cmd=set&P43066=<value>  
  SET: [http][https]://<servername>/goform/config?cmd=set&P43067=<value>

Released HTTP API documentation can be downloaded from here:

NEW FEATURES OVERVIEW

This section lists major new features or improvement and describes how to use them from the user’s point of view.

WDR SUPPORT

• Web Configuration

This option can be found under device web UI → Video & Audio Settings → CMOS Settings:

![CMOS Settings](image)

• Functionality

This feature enhancement will allow users to configure the IP Camera in some special lighting environment like back light, strong contrast scene to have a better image.

The WDR (Wide Dynamic Range) is e-WDR, meaning the IP Camera combining two images based on bright and dark light condition and combined to form the image.

This WDR may help some light condition environment, but will not be effective at all light conditions or application scenes.
ADD 720p(HD), D1 RESOLUTION IN 2ND STREAM

- **Web Configuration**

  This option can be found under device web UI → Video & Audio Settings → Video Settings:

  ![Video Settings UI](image)

  - **Functionality**

    This feature is implemented based on feedback from field customers.

    Several resolutions have been added to 2nd stream, to allow users selecting based on application requirement and bandwidth availability, to use the resolution for SIP call, RTSP, Recording, etc.
SIP UPnP NAT TRAVERSAL

- **Web Configuration**

This option can be found under device web UI → Account → Account X → SIP Advanced Settings:

<table>
<thead>
<tr>
<th>SIP Advanced Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Expiration(m)</td>
</tr>
<tr>
<td>Re-register before Expiration(s)</td>
</tr>
<tr>
<td>Local SIP Port</td>
</tr>
<tr>
<td>SIP Transport</td>
</tr>
<tr>
<td>Stream</td>
</tr>
<tr>
<td>Unregister On Reboot</td>
</tr>
<tr>
<td>NAT Traversal</td>
</tr>
</tbody>
</table>

- **Functionality**

By default, this setting is disabled.

If user has SIP Proxy and Router support uPnP NAT Traversal, user can enable this feature by click to enable it, then the IP Camera can use UPnP NAT Traversal and automatically process the NAT issue.
For detailed information, please refer to User Manual and Resource Center:

- **GSC36XX User Manual:**

- **HTTP API** documentation can be downloaded from here: